

Generated Test Cases via gemma2-9b-it LLM Model and Zero-shot Prompting Technique

Data - 1

Project name -

Social Media Platform

Project description -

Develop a comprehensive social media platform where users can create profiles, connect with friends, share posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending topics and communities. The platform should include features like news feed, messaging, user profiles, privacy settings, notifications, and analytics.

Feature name -

User Profiles

Feature description -

Each user can create a personalized profile that includes information such as their name, bio, profile picture, location, interests, and other relevant details. Profiles serve as a digital representation of individuals on the platform, allowing others to learn more about them.

Userstory title -

As a user, I want to create a personalized profile so that I can share my information with others on the platform.

Acceptance criteria -

['Users can add and edit their name, bio, profile picture, location, and interests.', 'The profile picture should support standard image formats.', 'Users can set privacy settings for each field.', 'The profile must be saved successfully.', 'Users should receive a confirmation upon saving their profile.']

Generated Test Cases:

Here are 5 detailed test cases for the "User Profiles" feature of the Social Media Platform, based on the

provided acceptance criteria:

****Test Case 1****

* ****Test Case ID:**** TC_UP_001

* ****Test Case Title:**** Verify that users can add their name to their profile.

* ****Test Case Description:**** This test case aims to verify that users can successfully enter their name into the designated field on the profile creation/editing page and save the changes.

* ****Test Suite:**** User Profiles

* ****Test Priority:**** High

* ****Preconditions:****

- * User account exists.

- * User is logged into the platform.

* ****Test Data:**** Valid user name (e.g., "Alice Smith").

* ****Test Steps:****

1. Navigate to the user's profile page.
2. Click on the "Edit Profile" button.
3. Enter the valid user name in the "Name" field.
4. Click the "Save" button.

* ****Postconditions:****

- * The user's profile page reflects the updated name.
- * A confirmation message is displayed indicating successful profile saving.

* ****Expected Result:**** The user's name is successfully saved and displayed on their profile page.

* ****Severity:**** Critical

* ****Priority:**** High

* ****Type of Testing:**** Functional Testing

****Test Case 2****

* **Test Case ID:** TC_UP_002

* **Test Case Title:** Verify that users can set privacy settings for their name.

* **Test Case Description:** This test case verifies the functionality of privacy settings for the user's name field.

* **Test Suite:** User Profiles

* **Test Priority:** Medium

* **Preconditions:** User account exists. User is logged into the platform

* **Test Data:** Valid user name, options for privacy settings (e.g., Public, Friends Only, Private)

* **Test Steps:**

1. Navigate to the user's profile page.
2. Click on the "Edit Profile" button.
3. Select a specific privacy setting for the "Name" field.
4. Click the "Save" button.

* **Postconditions:**

* The selected privacy setting is applied to the "Name" field.

* **Expected Result:** The user's name privacy setting is successfully changed and reflected in the profile settings.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

****Test Case 3****

* **Test Case ID:** TC_UP_003

* **Test Case Title:** Verify that users can add a profile picture in supported formats.

* **Test Case Description:** This test case ensures that users can upload profile pictures in the allowed image formats and the platform handles unsupported formats correctly.

* **Test Suite:** User Profiles

* **Test Priority:** Medium

* **Preconditions:** User account exists. User is logged into the platform

* **Test Data:**

- * Valid profile picture in supported formats (e.g., JPG, PNG, GIF).

- * Invalid profile picture in unsupported format (e.g., .txt, .pdf).

* **Test Steps:**

1. Navigate to the user's profile page.

2. Click on the "Edit Profile" button.

3. Upload a valid profile picture using the "Choose File" button.

4. Upload an invalid profile picture using the "Choose File" button.

* **Postconditions:**

- * A valid profile picture is successfully uploaded and displayed.

- * An error message is displayed for the invalid profile picture, stating the unsupported format.

* **Expected Result:** The platform allows uploading images in supported formats and displays an appropriate error message for unsupported formats.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

****Test Case 4****

* **Test Case ID:** TC_UP_004

* **Test Case Title:** Verify that users receive a confirmation upon saving their profile.

* **Test Case Description:** This test case ensures that a clear, concise confirmation message is displayed to the user after successfully saving their profile changes.

* **Test Suite:** User Profiles

* **Test Priority:** High

* **Preconditions:** User account exists. User is logged into the platform

* **Test Data:** Valid profile information (name, bio, etc.).

* **Test Steps:**

1. Navigate to the user's profile page.
2. Click on the "Edit Profile" button.
3. Update any information in the profile fields.
4. Click the "Save" button.

* **Postconditions:** A confirmation message is displayed.

* **Expected Result:** A confirmation message is displayed to the user, indicating that their profile has been saved successfully.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

****Test Case 5****

* **Test Case ID:** TC_UP_005

* **Test Case Title:** Verify that users can edit their bio in their profile.

* **Test Case Description:** This test case tests the functionality of the "Bio" field within the user profile, ensuring users can input information and save changes.

* **Test Suite:** User Profiles

* **Test Priority:** Medium

* **Preconditions:** User account exists. User is logged into the platform.

* **Test Data:** Valid bio text (less than the character limit if applicable).

* **Test Steps:**

1. Navigate to the user's profile page.
2. Click on the "Edit Profile" button.
3. Enter a valid bio text in the designated field.
4. Click the "Save" button.

* **Postconditions:** The user's profile page reflects the updated bio.

* **Expected Result:** The user's bio is successfully updated and displayed on their profile page.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

Remember that these are just starting points. Each test case should be further refined and expanded upon, considering potential edge cases and variations in user input to ensure comprehensive coverage of the "User Profiles" feature. Remember also to document any defects found during testing and communicate them to the development team for resolution.

Data - 2

Project name -

Social Media Platform

Project description -

Develop a comprehensive social media platform where users can create profiles, connect with friends, share

posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending topics and communities. The platform should include features like news feed, messaging, user profiles, privacy settings, notifications, and analytics.

Feature name -

News Feed

Feature description -

The news feed is a central feature of the social media platform where users can view a curated stream of content from accounts they follow or are connected to. It typically displays posts, updates, photos, videos, and other media shared by friends, family, brands, and other users in chronological or algorithmically determined order.

Userstory title -

As a user, I want to see a curated news feed so that I can stay updated with content from my connections.

Acceptance criteria -

['The news feed displays posts from followed accounts.', 'Content is shown in chronological or algorithmic order.', 'Users can interact with posts (like, comment, share).', 'The feed updates in real-time.', 'Users can filter content based on type or topic.']

Generated Test Cases:

Here are 5 detailed test cases for the "News Feed" feature, adherence to the provided template:

****Test Case 1****

*** **Test Case ID:** NEWSFEED-001**

*** **Test Case Title:** Verify that the news feed displays posts from followed accounts.**

*** **Test Case Description:** This test case verifies that the news feed displays posts only from accounts that the user has explicitly followed.**

*** **Test Suite:** User Interface Testing**

* **Test Priority:** High

* **Preconditions:**

- * A registered user exists with at least two followed accounts.

- * The user is logged in to the platform.

* **Test Data:** List of followed accounts and sample posts from those accounts.

* **Test Steps:**

1. Navigate to the user's news feed page.
2. Observe the displayed posts.
3. Verify that all posts displayed belong to the user's followed accounts.
4. Check for the presence of posts from accounts the user does not follow.

* **Postconditions:**

- * User remains logged in.

* **Expected Result:** The news feed displays only posts from accounts that the user is following. No posts from unfollowed accounts should be visible.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

****Test Case 2****

* **Test Case ID:** NEWSFEED-002

* **Test Case Title:** Verify that content is shown in chronological order.

* **Test Case Description:** This test case ensures that posts in the news feed are displayed in the order they were created, with the most recent post appearing first.

* **Test Suite:** User Interface Testing

* **Test Priority:** High

* **Preconditions:**

- * A registered user exists with at least three posts on their profile.
- * Time zones are configured correctly for the user.
- * User is logged in.

* **Test Data:** Three sample posts with different timestamps.

* **Test Steps:**

1. Access the news feed.
2. Identify the three sample posts.
3. Note the order in which they appear on the feed.
4. Verify that the most recent post appears first.

* **Postconditions:**

- * User remains logged in.

* **Expected Result:** The posts are displayed in chronological order, with the most recent post at the top.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

****Test Case 3****

* **Test Case ID:** NEWSFEED-003

* **Test Case Title:** Verify that users can interact with posts (like, comment, share).

* **Test Case Description:** This test case confirms that users can successfully like, comment on, and share posts within the news feed.

* **Test Suite:** User Interaction Testing

* **Test Priority:** Medium

* **Preconditions:**

- * A registered user exists and is logged in.
- * There are posts available in the news feed.

* **Test Data:**

* **Test Steps:**

1. Navigate to a post in the news feed.
2. Click the "like" button and verify that the like count increments.
3. Click the "comment" button, type a comment, and press enter. Verify that the comment appears below the post.
4. Click the "share" button and select a sharing option (e.g., share to a specific group or friend). Verify that the post is shared successfully.

* **Postconditions:**

- * Comments and likes persist on the post.
- * Shared posts should appear on the appropriate target location (users' profiles, groups).

* **Expected Result:** The user can successfully like, comment on, and share posts within the news feed.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

****Test Case 4****

* **Test Case ID:** NEWSFEED-004

* **Test Case Title:** Verify that the news feed updates in real-time.

* **Test Case Description:** This test case checks if the news feed dynamically updates to show new posts as they are published.

* **Test Suite:** Performance Testing

* **Test Priority:** High

* **Preconditions:**

- * A registered user exists.
- * Posts are being created concurrently by other users.

* User is logged in.

* **Test Data:** Number of concurrent post creators, post frequency.

* **Test Steps:**

1. Open the news feed page and observe the initial set of posts.
2. Simultaneously, have other users create new posts at a defined frequency.
3. Continue monitoring the news feed for updates.
4. Verify that new posts appear in the feed within a reasonable time frame.

* **Postconditions:** No changes needed.

* **Expected Result:** The news feed updates in real-time to display new posts as they are created by other users. Delay should be minimal.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Performance Testing

Test Case 5

* **Test Case ID:** NEWSFEED-005

* **Test Case Title:** Verify user can filter content based on type or topic.

* **Test Case Description:** This test case ensures that the news feed allows users to filter content based on predefined categories or user-defined keywords.

* **Test Suite:** User Interaction Testing

* **Test Priority:** Medium

* **Preconditions:**

* A registered user exists and is logged in.

* Content with various types (text, photos, video) and topics is available in the news feed.

* **Test Data:** Sample posts categorized by type and topic.

* **Test Steps:**

1. Navigate to the news feed.
2. Utilize the filtering options (e.g., 'Photos', 'Videos', 'Specific Topic').
3. Verify that only the posts matching the selected filter criteria are displayed.

* **Postconditions:** No changes needed.

* **Expected Result:** Filtering options effectively refine the news feed to display only relevant content based on the user's selection.

* **Severity:** Minor

* **Priority:** Medium

* **Type of Testing:** Functional Testing

Data - 3

Project name -

Social Media Platform

Project description -

Develop a comprehensive social media platform where users can create profiles, connect with friends, share posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending topics and communities. The platform should include features like news feed, messaging, user profiles, privacy settings, notifications, and analytics.

Feature name -

Messaging

Feature description -

Messaging enables direct communication between users through private messages or group chats. Users can send text messages, multimedia files, emojis, stickers, and other forms of communication in real-time or asynchronously, fostering private conversations and connections.

Userstory title -

As a user, I want to send private messages so that I can communicate directly with my friends.

Acceptance criteria -

['Users can send text messages, images, and videos.', 'Messages can be sent in real-time.', 'Users can start private conversations or group chats.', 'Messages should show read receipts.', 'Users should be notified of new messages.']

Generated Test Cases:

Here are 5 detailed test cases for the "Send Private Messages" feature in a Social Media Platform, following your provided template:

Test Case 1:

****Test Case ID:**** TC_Messaging_001

****Test Case Title:**** Verify that users can send text messages.

****Test Case Description:**** This test case verifies the functionality of sending text messages via the private messaging feature. It will ensure that a user can compose and successfully send a text message to another user.

****Test Suite:**** Messaging

****Test Priority:**** High

****Preconditions:****

- User has a registered account on the social media platform.
- User has another registered user they wish to send a message to.
- Both users have a working internet connection.

****Test Data:**** Sample text message content

****Test Steps:****

1. Log in to the social media platform as the sender user.
2. Navigate to the messaging feature.
3. Select the recipient user from the contact list.
4. Compose a message with the test data.
5. Click on the "Send" button.
6. Verify that the message is successfully sent and displayed in the chat history.

****Postconditions:****

- The sent message remains visible in the chat history.
- The recipient receives a notification about the new message.

****Expected Result:**** The test message should be successfully sent and received by the recipient.

****Severity:**** Minor

****Priority:**** High

****Type of Testing:**** Functional Testing

Test Case 2:

****Test Case ID:**** TC_Messaging_002

****Test Case Title:**** Verify that users can send images privately.

****Test Case Description:**** This test case verifies the functionality of sending images through the private messaging feature. It will ensure that a user can select and successfully send an image to another user.

****Test Suite:**** Messaging

****Test Priority:**** High

****Preconditions:****

- User has a registered account on the social media platform.
- User has another registered user they wish to send a message to.
- User has an image stored on their device.
- Both users have a working internet connection.

****Test Data:**** Local image file

****Test Steps:****

1. Log in to the social media platform as the sender user.
2. Navigate to the messaging feature.
3. Select the recipient user from the contact list.
4. Click on the "Attach" or "Photo" button to browse and select the image file.
5. Click on the "Send" button.
6. Verify that the image is successfully sent and displayed in the chat history.

****Postconditions:****

- The sent image remains visible in the chat history.
- The recipient receives a notification about the new message containing the image.

****Expected Result:**** The test image should be successfully sent and received by the recipient.

****Severity:**** Minor

****Priority:**** High

****Type of Testing:**** Functional Testing

Test Case 3:

****Test Case ID:**** TC_Messaging_003

****Test Case Title:**** Verify that users can send video messages.

****Test Case Description:**** This test case verifies the functionality of sending videos through the private messaging feature. It will ensure that a user can select and successfully send a video file to another user.

****Test Suite:**** Messaging

****Test Priority:**** High

****Preconditions:****

- User has a registered account on the social media platform.
- User has another registered user they wish to send a message to.
- User has a video file stored on their device.
- Both users have a working internet connection.

****Test Data:**** Local video file

****Test Steps:****

1. Log in to the social media platform as the sender user.
2. Navigate to the messaging feature.
3. Select the recipient user from the contact list.
4. Click on the "Attach" or "Video" button to browse and select the video file.
5. Click on the "Send" button.
6. Verify that the video is successfully sent and displayed in the chat history.

****Postconditions:****

- The sent video remains visible in the chat history.
- The recipient receives a notification about the new message containing the video.

****Expected Result:**** The test video should be successfully sent and received by the recipient.

****Severity:**** Minor

****Priority:**** High

****Type of Testing:**** Functional Testing

Test Case 4:

****Test Case ID:**** TC_Messaging_004

****Test Case Title:**** Verify that users receive read receipts for messages.

****Test Case Description:**** This test case verifies the functionality of read receipts for private messages. It will test that a user correctly sees indications that messages have been read by the recipient.

****Test Suite:**** Messaging

****Test Priority:**** Medium

****Preconditions:****

- User has a registered account on the social media platform.
- User has another registered user they wish to send a message to.
- Both users have a working internet connection.

****Test Data:**** Sample text message content

****Test Steps:****

1. Log in to the social media platform as the sender user.
2. Send a test message to the recipient user.
3. Log in as the recipient user.
4. View the received message.
5. Verify that the sender user sees a read receipt indicator for the sent message.

****Postconditions:****

- The recipient user has read the message.

****Expected Result:**** The sender user should see a visual indication (e.g., double checkmark, "Read") that the message has been read by the recipient.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

Test Case 5:

****Test Case ID:**** TC_Messaging_005

****Test Case Title:**** Verify that users receive notifications for new messages.

****Test Case Description:**** This test case verifies that users are properly alerted of new private messages.

****Test Suite:**** Messaging

****Test Priority:**** High

****Preconditions:****

- User has a registered account on the social media platform.
- User has another registered user they wish to send a message to.
- Both users have a working internet connection and notifications enabled.

****Test Data:**** Sample text message content

****Test Steps:****

1. While logged in as the sender user, send a message to the recipient user.
2. Immediately switch to another application or browser tab.
3. Log in as the recipient user.

4. Verify that they receive a notification alerting them to the new message.

5. Open the received message.

****Postconditions:****

- The recipient user acknowledged/read the notification.

****Expected Result:**** The recipient user should receive a timely notification about the new private message, regardless of whether they remain on the platform or navigate to another application.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

Data - 4

Project name -

Social Media Platform

Project description -

Develop a comprehensive social media platform where users can create profiles, connect with friends, share posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending topics and communities. The platform should include features like news feed, messaging, user profiles, privacy settings, notifications, and analytics.

Feature name -

Content Sharing

Feature description -

Users can share various types of content with their followers or the public, including text posts, photos, videos, links, articles, and documents. Content sharing fosters engagement, creativity, and self-expression among users, allowing them to share their thoughts, experiences, and interests with others.

Userstory title -

As a user, I want to share posts so that I can express my thoughts and interests with others.

Acceptance criteria -

['Users can create and share text posts, photos, and videos.', 'Content can be shared with followers or publicly.', 'Users can edit or delete their posts.', 'Posts should support hashtags and tagging.', 'Users should receive feedback through likes, comments, and shares.']

Generated Test Cases:

Here are 5 test cases for the "Content Sharing" feature, based on the provided acceptance criteria:

****Test Case 1****

* **Test Case ID:** TC_001

* **Test Case Title:** Verify that users can create and share text posts.

* **Test Case Description:** This test case ensures that users can successfully compose and publish text-based posts on the platform.

* **Test Suite:** Content Sharing

* **Test Priority:** High

* **Preconditions:**

* User has a registered account on the platform.

* **Test Data:** Pre-written text content for the post.

* **Test Steps:**

1. Log in as a registered user.
2. Navigate to the post creation area.
3. Enter the pre-written text content into the post box.
4. Add relevant hashtags (optional).
5. Tag other users (optional).
6. Click the "Share" or "Post" button.

* **Postconditions:**

* The text post is successfully published on the user's profile and timeline.

* **Expected Result:** The shared post is displayed on the user's timeline and searchable within the platform.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

****Test Case 2****

* **Test Case ID:** TC_002

* **Test Case Title:** Verify that users can share photos.

* **Test Case Description:** This test case verifies the functionality of sharing image content on the platform.

* **Test Suite:** Content Sharing

* **Test Priority:** High

* **Preconditions:**

* User has a registered account on the platform.

* User has access to a valid image file (e.g., .jpg, .png).

* **Test Data:** Image file.

* **Test Steps:**

1. Log in as a registered user.

2. Navigate to the post creation area.
3. Select the image file from their device.
4. Add a caption (optional).
5. Click the "Share" or "Post" button.

* **Postconditions:**

* The uploaded image is successfully displayed in the post.

* **Expected Result:** The shared photo post is displayed on the user's timeline with the caption (if added).

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

****Test Case 3****

* **Test Case ID:** TC_003

* **Test Case Title:** Verify that users can share videos.

* **Test Case Description:** This test case verifies the functionality of sharing video content on the platform.

* **Test Suite:** Content Sharing

* **Test Priority:** High

* **Preconditions:**

* User has a registered account on the platform.

* User has access to a valid video file (e.g., .mp4, .mov).

* **Test Data:** Video file.

* **Test Steps:**

1. Log in as a registered user.
2. Navigate to the post creation area.
3. Select the video file from their device.
4. Add a caption (optional).

5. Click the "Share" or "Post" button.

* **Postconditions:**

* The uploaded video is successfully embedded and playable within the post.

* **Expected Result:** The shared video post is displayed on the user's timeline; users can play the embedded video.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

Test Case 4

* **Test Case ID:** TC_004

* **Test Case Title:** Verify that users can edit or delete their posts.

* **Test Case Description:** This test case checks if users have the ability to modify or remove their own shared content.

* **Test Suite:** Content Sharing

* **Test Priority:** Medium

* **Preconditions:**

* User has a registered account on the platform.

* User has previously shared a post.

* **Test Data:** Self-created post by the user.

* **Test Steps:**

1. Log in as the user who created the post.
2. Navigate to the originally shared post.
3. Click the "Edit" or "Modify" option (if available).
4. Make changes to the post content (text, hashtags, tags).
5. Click the "Save Changes" button.

6. Click the "Delete" or "Remove" option.

7. Confirm the deletion of the post.

* **Postconditions:**

* The edited post reflects the changes made.

* The post is removed from the user's timeline and is no longer visible.

* **Expected Result:** The post is successfully edited and saved, or it is successfully removed from the platform.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

****Test Case 5****

* **Test Case ID:** TC_005

* **Test Case Title:** Verify that users can share content publicly or with followers.

* **Test Case Description:** This test case examines the control users have over who can see their shared content.

* **Test Suite:** Content Sharing

* **Test Priority:** High

* **Preconditions:**

* User has a registered account on the platform. They

have at least one following user (friend)

* **Test Data:** Text post or image

* **Test Steps:**

1. Log in as a registered user.

2. Compose a text post or image (depending on the test data).

3. Navigate to the privacy settings while creating the post.
4. Select the option to share with "Public"
5. Select the option to share with "Followers Only"
6. Share the post.

* **Postconditions:**

* The publicly shared post is visible to everyone on the platform.

* **Expected Result:**

* Posts shared with "Followers Only" are only visible to the logged-in user's followers.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

These test cases provide a starting point for ensuring that the "Content Sharing" feature of the social media platform is functioning correctly and meets the outlined acceptance criteria.

Keep in mind:

* **Elaboration:** Each test case can be further expanded to cover more nuanced scenarios, edge cases, and potential error handling.

* **Negative Testing:** It's crucial to include negative test cases to validate error handling and security measures (e.g., testing for invalid file types, exceeding character limits, attempting to share prohibited content).

* **Real-World Data:** Use realistic user data and content to make testing more representative of actual usage.

* **Iteration:** Testing is an iterative process. As the software evolves, new test cases may be required to address changes or uncover new issues.

Data - 5

Project name -

Social Media Platform

Project description -

Develop a comprehensive social media platform where users can create profiles, connect with friends, share posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending topics and communities. The platform should include features like news feed, messaging, user profiles, privacy settings, notifications, and analytics.

Feature name -

Privacy Settings

Feature description -

Privacy settings allow users to control who can view their profile, posts, and other activity on the platform. Users can choose between public, private, or restricted privacy settings, determining who can see their content, send them friend requests, or interact with them.

Userstory title -

As a user, I want to set privacy settings so that I can control who sees my information.

Acceptance criteria -

['Users can set their profile to public, private, or restricted.', 'Privacy settings can be changed at any time.', 'Users can control visibility of individual posts.', 'The system should respect the privacy settings immediately.', 'Users should be notified of any changes in privacy settings.']

Generated Test Cases:

Test Cases for Social Media Platform - Privacy Settings

****Project:**** Social Media Platform

****Feature:**** Privacy Settings

****User Story:**** As a user, I want to set privacy settings so that I can control who sees my information.

****Test Case ID:**** TPS-001

****Test Case Title:**** Verify that users can set their profile to public

****Test Case Description:**** This test case verifies that a user can successfully set their profile privacy to public, allowing all users to view their profile information and posts.

****Test Suite:**** User Profile Privacy

****Test Priority:**** High

****Preconditions:****

- * A user account is created and logged in.
- * The user has not previously set a specific privacy level.

****Test Data:**** N/A

****Test Steps:****

1. Navigate to the user's profile settings.

2. Select "Public" from the privacy setting options.

3. Save the changes to the privacy settings.

****Postconditions:****

* The user's profile visibility should be set to public.

* Any new posts made by the user should be visible to all users.

****Expected Result:**** The user's profile and posts are visible to all users on the platform.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TPS-002

****Test Case Title:**** Verify that users can set their profile to private

****Test Case Description:**** This test case verifies that a user can successfully set their profile privacy to private, limiting visibility to only approved friends.

****Test Suite:**** User Profile Privacy

****Test Priority:** High**

****Preconditions:****

- * A user account is created and logged in.
- * The user has not previously set a specific privacy level.

****Test Data:** N/A**

****Test Steps:****

1. Navigate to the user's profile settings.
2. Select "Private" from the privacy setting options.
3. Save the changes to the privacy settings.

****Postconditions:****

- * The user's profile visibility should be set to private.
- * Only approved friends can view the user's profile information and posts.

****Expected Result:** The user's profile and posts are only visible to their approved friends.**

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TPS-003**

****Test Case Title:** Verify that users can set their profile to restricted**

****Test Case Description:** This test case verifies that a user can successfully set their profile privacy to restricted, allowing them to control who can view their profile, posts, or engage with their content.**

****Test Suite:** User Profile Privacy**

****Test Priority:** High**

****Preconditions:****

- * A user account is created and logged in.
- * The user has not previously set a specific privacy level.

****Test Data:** N/A**

****Test Steps:****

1. Navigate to the user's profile settings.
2. Select "Restricted" from the privacy setting options.
3. Customize the restricted settings to specify which user categories can view their profile, posts, or interact with their content.

4. Save the changes to the privacy settings.

****Postconditions:****

* The user's profile visibility should be set to restricted.

* Only specific user categories (e.g., friends, followers) can view or interact with the user's content according to the customized settings.

****Expected Result:**** The user's profile and posts are only visible to users within the specified restricted categories.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TPS-004

****Test Case Title:**** Verify that privacy settings can be changed at any time

****Test Case Description:**** This test case verifies that a user can modify their privacy settings at any time, ensuring flexibility and control over their information visibility.

****Test Suite:**** User Profile Privacy Modification

****Test Priority:** Medium**

****Preconditions:****

- * A user account is created and logged in.
- * The user has previously set their profile privacy to a specific level (public, private, or restricted).

****Test Data:** N/A**

****Test Steps:****

1. Navigate to the user's profile settings.
2. Change the privacy setting to a different level (e.g., from public to private).
3. Save the changes to the privacy settings.

****Postconditions:****

- * The user's profile privacy should reflect the newly selected setting.
- * Past posts and profile information adhere to the new privacy level.

****Expected Result:**** The user's privacy settings are successfully updated, and their profile visibility reflects the new chosen level.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TPS-005**

****Test Case Title:** Verify that users are notified of changes in their privacy settings**

****Test Case Description:** This test case verifies that a user receives a notification (e.g., email, in-app message) whenever their privacy settings are modified, ensuring awareness and transparency.**

****Test Suite:** User Privacy Notifications**

****Test Priority:** Medium**

****Preconditions:****

- * A user account is created and logged in.
- * The user has their privacy settings configured.

****Test Data:** N/A**

****Test Steps:****

1. Modify the user's privacy settings through their profile settings.
2. Check for an associated notification in the user's inbox or within the app.

****Postconditions:****

* User receives a notification about the privacy setting change.

****Expected Result:**** The user is promptly notified about their updated privacy settings after making the changes.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Project name -

Social Media Platform

Project description -

Develop a comprehensive social media platform where users can create profiles, connect with friends, share posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending topics and communities. The platform should include features like news feed, messaging, user profiles, privacy settings, notifications, and analytics.

Feature name -

Notifications

Feature description -

Notifications alert users about new activity on the platform, such as likes, comments, mentions, friend requests, and event invitations. Notifications help users stay updated and engaged, prompting them to interact with the platform and respond to interactions from others.

Userstory title -

As a user, I want to receive notifications so that I am aware of new activity related to my profile.

Acceptance criteria -

['Users receive notifications for likes, comments, and shares.', 'Users are notified of new friend requests and mentions.', 'Notifications are displayed in real-time.', 'Users can customize notification preferences.', 'Notifications include a link to the relevant activity.']

Generated Test Cases:

Test Cases for Notifications Feature

****Project Context:**** Social Media Platform

****Feature Name:**** Notifications

****User Story Title:**** As a user, I want to receive notifications so that I am aware of new activity related to my profile.

****Test Case 1****

****Test Case ID:** TC_NOTIF_001**

*** **Test Case Title:** Verify that users receive notifications for likes on their posts**

*** **Test Case Description:** This test case verifies that users receive notifications when others like their posts.**

*** **Test Suite:** Notification Feature**

*** **Test Priority:** High**

*** **Preconditions:****

- * A logged-in user exists with at least one post

*** **Test Data:****

- * A sample post created by the user

*** **Test Steps:****

- * User logs in to the platform.

- * User publishes a new post containing text and/or media.

- * Another user logs in and likes the user's post.

- * The notification center should display a notification indicating that the user received a like on their post.

*** **Postconditions:****

- * Notifications cleared from the user's notification center

*** **Expected Result:****

- * A notification for the like on their post is displayed in the user's notification center. A link to the post should be included in the notification.

****Test Case 2****

****Test Case ID:** TC_NOTIF_002**

*** **Test Case Title:** Verify that users receive notifications for comments on their posts**

*** **Test Case Description:** This test case verifies that users receive notifications when others comment on**

their posts.

* **Test Suite:** Notification Feature

* **Test Priority:** High

* **Preconditions:**

- * A logged-in user exists with at least one post

* **Test Data:**

- * A sample post created by the user

* **Test Steps:**

- * User logs in to the platform.

- * User publishes a new post containing text and/or media.

- * Another user logs in and comments on the user's post.

- * The notification center should display a notification indicating that the user received a comment on their post.

* **Postconditions:**

- * Notifications cleared from the user's notification center

* **Expected Result:**

- * A notification for the comment on their post is displayed in the user's notification center. A link to the post should be included in the notification.

****Test Case 3****

****Test Case ID:** TC_NOTIF_003****

* **Test Case Title:** Verify that users receive notifications for new friend requests

* **Test Case Description:** This test case verifies that users receive notifications when new friend requests are sent to them.

* **Test Suite:** Notification Feature

* **Test Priority:** High

* **Preconditions:**

- * A logged-in user exists

* **Test Data:**

- * Another user account

* **Test Steps:**

- * Another user logs in and sends a friend request to the first user.

- * The notification center should display a notification indicating that the user has a new friend request.

* **Postconditions:**

- * Notifications cleared from the user's notification center

* **Expected Result:**

- * A notification for the friend request is displayed in the user's notification center. The notification should include the name of the requesting user and an option to accept or decline the request.

****Test Case 4****

****Test Case ID:** TC_NOTIF_004**

****Test Case Title:** Verify that users receive real-time notifications**

****Test Case Description:** This test case verifies that notifications are displayed in real time as they occur.**

****Test Suite:** Notification Feature**

****Test Priority:** High**

****Preconditions:****

- * A logged-in user exists with at least one post

- * Real-time notifications functionality is enabled

****Test Data:****

- * A sample post created by the user

- * Several simulated users

****Test Steps:****

- * The user logs in to the platform.

- * The user publishes a new post.

- * Several simulated users quickly interact with the post (like, comment, share).

- * The user expects to see each notification occur immediately in their notification center as each interaction happens.

- * **Postconditions:**

- * Notifications cleared from the user's notification center

- * **Expected Result:**

- * Notifications are displayed in the user's notification center with near-instantaneous updates, reflecting the real-time nature of the feature.

Test Case 5

- **Test Case ID:** TC_NOTIF_005

- * **Test Case Title:** Verify that users can customize notification preferences

- * **Test Case Description:** This test case verifies that users can control which types of activities trigger notifications.

- * **Test Suite:** Notification Feature

- * **Test Priority:** Medium

- * **Preconditions:**

- * A logged-in user exists

- * **Test Data:**

- * User notification preferences

- * **Test Steps:**

- * User accesses the notification settings page.

- * User selectively disables certain notification types (e.g., likes, comments).

- * Different users perform actions on the user's profile (likes, comments, mentions).

- * User checks the notification center for notifications corresponding to the enabled categories.

- * **Postconditions:**

- * Notification settings saved and applied

- * Notifications cleared from the user's notification center

* **Expected Result:**

- * User receives notifications only for the types of activity they have explicitly enabled in their settings.

Notes:

- * Further test cases can be created to cover edge cases and negative scenarios (e.g., invalid notification data, notification delivery failures, notification queuing and backlog).

- * The severity and priority levels can be adjusted based on the project's specific needs and risks.

Data - 7

Project name -

Social Media Platform

Project description -

Develop a comprehensive social media platform where users can create profiles, connect with friends, share posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending topics and communities. The platform should include features like news feed, messaging, user profiles, privacy settings, notifications, and analytics.

Feature name -

Search Functionality

Feature description -

Search functionality enables users to discover content, profiles, and topics of interest on the platform. Users can search for specific keywords, hashtags, accounts, or topics, helping them find relevant content and connect with others who share similar interests.

Userstory title -

As a user, I want to use search functionality to find specific content or profiles on the platform.

Acceptance criteria -

['Users can search for content using keywords or hashtags.', 'Search results include profiles, posts, and topics.', 'Results are displayed in order of relevance.', 'Users can filter search results by content type.', 'The search functionality provides suggestions as the user types.']

Generated Test Cases:

Test Cases for Social Media Platform - Search Functionality

****Test Case ID:** TC_SM_Search_01**

****Test Case Title:** Verify that users can search for content using keywords.**

****Test Case Description:** This test case verifies that users can enter keywords into the search bar and receive relevant search results for posts, profiles, and topics.**

****Test Suite:** Social Media Platform - Search Functionality**

****Test Priority:** High**

****Preconditions:****

* A user account is logged in.

* Content (posts, profiles, topics) relevant to the chosen keywords exists on the platform.

****Test Data:****

* Keywords: "social media," "technology," "programming," "photography"

****Test Steps:****

1. Navigate to the search bar on the platform.
2. Enter the keyword "social media" into the search bar and press enter.
3. Observe the search results displayed, ensuring they include posts, profiles, and topics related to "social media."
4. Repeat steps 2-3 with the keywords "technology," "programming," and "photography," verifying relevant results for each.

****Postconditions:****

- * Search bar remains clear after each search.
- * No error messages display during the search process.

****Expected Result:**** The search functionality accurately returns relevant results for each entered keyword, displaying a mix of posts, profiles, and topics.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, User Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_SM_Search_02

****Test Case Title:**** Verify that users can filter search results by content type.

****Test Case Description:**** This test case verifies that users can filter search results to view only posts, profiles, or topics.

****Test Suite:**** Social Media Platform - Search Functionality

****Test Priority:** Medium**

****Preconditions:****

* A user account is logged in.

* Content (posts, profiles, topics) relevant to the chosen keywords exists on the platform.

****Test Data:****

* Keywords: "pets"

****Test Steps:****

1. Navigate to the search bar on the platform.
2. Enter the keyword "pets" into the search bar and press enter.
3. Observe the initial search results, which include a mix of posts, profiles, and topics related to "pets."
4. Click on the filter option for "Posts" and observe the updated search results, displaying only posts related to "pets."
5. Repeat steps 4 with the filters "Profiles" and "Topics," verifying that the results display only the corresponding content types.

****Postconditions:****

* Filter options remain readily available after each filter selection.

* The search bar retains the original keyword query after applying filters.

****Expected Result:**** The search functionality accurately filters results based on the selected content type, displaying only the requested type of content.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:**** Functional Testing, User Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_SM_Search_03

****Test Case Title:**** Verify that search results are displayed in order of relevance.

****Test Case Description:**** This test case confirms that the search algorithm ranks results based on relevance to the search query.

****Test Suite:**** Social Media Platform - Search Functionality

****Test Priority:**** High

****Preconditions:****

* A user account is logged in.

* Content (posts, profiles, topics) exists on the platform related to the chosen keywords.

****Test Data:****

* Keywords: "digital marketing"

****Test Steps:****

1. Navigate to the search bar on the platform.
2. Enter the keyword "digital marketing" into the search bar and press enter.
3. Analyze the displayed search results and observe the order of suggested content.
4. Repeat step 2 after making minor modifications to the keyword (e.g., "marketing digital," "digital market.")
5. Compare the order of results in both searches, noting any changes and expecting higher relevance for more precise keywords.

****Postconditions:****

*No specific postconditions.

****Expected Result:**** The search results are ranked in descending order of relevance to the entered keyword, with more specific queries producing a more focused and accurate list of results.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, User Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_SM_Search_04

****Test Case Title:**** Verify that the search functionality provides suggestions as the user types.

****Test Case Description:**** This test case confirms that the search bar offers auto-suggest features as the user types, providing potential search terms.

****Test Suite:**** Social Media Platform - Search Functionality

****Test Priority:**** Medium

****Preconditions:****

* A user account is logged in.

****Test Data:****

* Partial keywords: "soci," "te," "photo"

****Test Steps:****

1. Navigate to the search bar on the platform.
2. Start typing "soci" into the search bar and observe the auto-suggest options.
3. Continue typing and observe how the suggestions change and refine based on the input.
4. Repeat steps 2-3 with the partial keywords "te" and "photo," ensuring varied and appropriate suggestions are provided.

****Postconditions:****

* No specific postconditions.

****Expected Result:**** The search bar dynamically generates suggestions as the user types, offering relevant potential search terms and facilitating faster and more precise searching.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, User Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_SM_Search_05

****Test Case Title:**** Verify that the search functionality handles invalid input gracefully.

****Test Case Description:**** This test case verifies that the search functionality handles invalid input (e.g., special characters, empty queries) effectively without crashing or displaying unexpected errors.

****Test Suite:**** Social Media Platform - Search Functionality

****Test Priority:**** Medium

****Preconditions:****

* A user account is logged in.

****Test Data:****

* Invalid inputs: "1234!", "", "!@#\$%^&*", " "

****Test Steps:****

1. Navigate to the search bar on the platform.
2. Enter each invalid input listed above into the search bar and press enter.
3. Observe the system's response to each invalid input.

****Postconditions:****

* No specific postconditions.

****Expected Result:**** The search functionality gracefully handles invalid inputs. No error messages should disrupt the user experience, instead a clear indication should be provided that the input is invalid, or an appropriate default behavior (e.g., displaying a filtered or empty search results page) should occur.

****Severity:**** Minor

****Priority:**** Low

****Type of Testing:**** Functional Testing, User Acceptance Testing

****Test Case Approach:**** Negative

Data - 8

Project name -

Social Media Platform

Project description -

Develop a comprehensive social media platform where users can create profiles, connect with friends, share posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending topics and communities. The platform should include features like news feed, messaging, user profiles, privacy settings, notifications, and analytics.

Feature name -

Hashtags and Tagging

Feature description -

Hashtags and tagging allow users to categorize their content and make it more discoverable to others. Users can add relevant hashtags to their posts or tag other users, brands, or locations, increasing the visibility and reach of their content.

Userstory title -

As a user, I want to use hashtags and tagging so that I can categorize my content and reach a wider audience.

Acceptance criteria -

['Users can add hashtags to their posts.', 'Users can tag other profiles, brands, or locations.', 'Hashtags and tags are clickable and lead to related content.', 'Users can search for content using hashtags.', 'The system should suggest popular hashtags as users type.']

Generated Test Cases:

Test Cases for Hashtags and Tagging Feature

****Test Suite:**** Social Media Platform - User Experience

****Type of Testing:**** Functional Testing, User Acceptance Testing

Test Case 1

****Test Case ID:** TC-H-01**

****Test Case Title:** Verify that users can add hashtags to their posts.**

****Test Case Description:** This test case verifies the ability of a user to add hashtags to a post and confirms that the hashtags are displayed correctly.**

****Test Priority:** High**

****Preconditions:****

* User account is created and logged in.

* A new post is drafted.

* The "Add Hashtag" button is accessible within the post editor.

****Test Data:****

* Several relevant hashtags (e.g., #technology, #socialmedia, #testing).

****Test Steps:****

1. Navigate to the user's profile and open the "Create Post" page.
2. Enter a post text.
3. In the post editor, click the "Add Hashtag" button.
4. Enter a hashtag (e.g., #technology) and click "Add."
5. Repeat steps 3-4 with several other hashtags.
6. Publish the post.

****Postconditions:****

* The post is published successfully.

* The hashtags are displayed correctly below the post text.

****Expected Result:** The user successfully adds hashtags to their post and they are displayed correctly.**

****Severity:** Minor**

****Priority:** High**

Test Case 2

****Test Case ID:** TC-H-02**

****Test Case Title:** Verify that users can tag other profiles, brands, or locations.**

****Test Case Description:** This test case verifies the ability of a user to tag other users, brands, or locations in their posts and confirms that the tags are displayed correctly and clickable.**

****Test Priority:** High**

****Preconditions:****

- * User account is created and logged in.
- * A new post is drafted.
- * User profiles, brands, or locations exist and are searchable.

****Test Data:****

- * Names of existing user profiles, brands, or locations.

****Test Steps:****

1. Navigate to the user's profile and open the "Create Post" page.
2. Enter a post text.
3. Click the '@' symbol to start tagging.
4. Start typing the name of another user profile, select the suggested profile from the dropdown list.
5. Repeat steps 3-4 to tag additional users, brands, or locations.
6. Publish the post.

****Postconditions:****

* The post is published successfully.

****Expected Result:**** The user successfully tags other profiles, brands, or locations in their post, and these tags are displayed correctly and clickable.

****Severity:**** Minor

****Priority:**** High

Test Case 3

****Test Case ID:**** TC-H-03

****Test Case Title:**** Verify that hashtags and tags are clickable and lead to related content.

****Test Case Description:**** This test case verifies that clicking on a hashtag or tag leads to a relevant search page displaying content containing that hashtag or tag.

****Test Priority:**** High

****Preconditions:****

* User account is created and logged in.

* Posts containing hashtags and tags exist.

****Test Data:****

*

Hashtags or tags from existing posts.

****Test Steps:****

1. Navigate to any post containing hashtags and/or tags.
2. Click on a hashtag displayed below the post.

3. Verify that the platform navigates to a search results page displaying content related to the clicked hashtag.
4. Repeat steps 1-3 with different hashtags and/or tags used in different posts.

****Postconditions:****

* User remains within the platform.

****Expected Result:****

Clicking on a hashtag or tag leads to a relevant search results page displaying content containing that hashtag or tag.

****Severity:**** Major

****Priority:**** High

Test Case 4

****Test Case ID:**** TC-H-04

****Test Case Title:**** Verify that users can search for content using hashtags.

****Test Case Description:**** This test case verifies the functionality of the search bar to find content through specific hashtags.

****Test Priority:**** High

****Preconditions:****

* User account is created and logged in.

*

Posts containing hashtags exist on the platform.

****Test Data:****

* Various relevant hashtags.

****Test Steps:****

1. Navigate to the platform's search bar.
2. Enter a specific hashtag (e.g., #technology) in the search bar.
3. Click the search button or hit Enter.
4. Verify that the search results page displays content containing the entered hashtag.
5. Try different hashtags with varying levels of popularity.

****Postconditions:****

* Search functionality returns expected results.

****Expected Result:****

Successfully finds content related to the entered hashtag and displays it on the search results page.

****Severity:**** Major

****Priority:**** High

Test Case 5

****Test Case ID:** TC-H-05**

****Test Case Title:** Verify the system suggests popular hashtags as users type.**

****Test Case Description:** This test case verifies the functionality of the auto-suggest feature that recommends popular hashtags while a user types in the hashtag field.**

****Test Priority:** Medium**

****Preconditions:****

* User account is created and logged in.

* Adequate number of active users posting with various hashtags.

****Test Data:****

* Common or trending keywords related to the platform's functionalities (e.g., #travel, #food, #fashion, #music)

****Test Steps:****

1. Navigate to the "Create Post" page and start typing a keyword related to a potential hashtag.
2. Observe the auto-suggest feature for relevant hashtag suggestions below the input field.
3. Verify that the suggested hashtags are popular and relevant to the entered keyword.

****Postconditions:****

* Auto-suggest feature displays relevant suggestions.

****Expected Result:** The system accurately suggests popular hashtags as the user types in the hashtag field.**

Data - 9

Project name -

Social Media Platform

Project description -

Develop a comprehensive social media platform where users can create profiles, connect with friends, share posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending topics and communities. The platform should include features like news feed, messaging, user profiles, privacy settings, notifications, and analytics.

Feature name -

Emojis and Reactions

Feature description -

Emojis and reactions provide users with expressive tools to react to posts and messages. Users can use emojis to convey emotions such as joy, sadness, love, or excitement, enhancing communication and engagement on the platform.

Userstory title -

As a user, I want to use emojis and reactions so that I can express my feelings about posts and messages.

Acceptance criteria -

['Users can react to posts with a variety of emojis.', 'Emojis can be used in comments and messages.', 'Users can see a count of reactions on posts.', 'The platform should support a wide range of emojis.', 'Users can remove or change their reactions.']

Generated Test Cases:

Test Cases for Emojis and Reactions Feature

****Test Case ID:**** TC_EMOJIS_001

****Test Case Title:**** Verify that users can react to posts with a variety of emojis.

****Test Case Description:**** This test case aims to validate the functionality of reacting to posts with various emojis provided by the platform. It will cover different emoji types, ensuring their successful display and functionality.

****Test Suite:**** User Interface (UI) Testing

****Test Priority:**** High

****Preconditions:****

- * A user must be logged in to the platform.
- * A post must be available on the user's news feed.
- * The emoji reaction functionality must be enabled.

****Test Data:****

- * Various emojis from different categories (emotion, objects, activities, etc.)

****Test Steps:****

1. Navigate to the user's news feed.
2. Select a post from the feed.
3. Click on the emoji reaction button located below the post.
4. Choose a desired emoji from the available list.
5. Verify that the selected emoji is displayed as a reaction to the post.

****Postconditions:****

- * The selected emoji should remain attached to the post.

****Expected Result:****

The user should be able to successfully react to the post with any chosen emoji from the provided list, and the emoji should be visually displayed as a reaction.

****Severity:**** Moderate

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case ID:**** TC_EMOJIS_002

****Test Case Title:**** Verify that emojis can be used in comments and messages.

****Test Case Description:**** This test case verifies the functionality of using emojis within comment sections and private messages. It will ensure emojis can be inserted, displayed correctly, and understood within these contexts.

****Test Suite:**** User Interface (UI) Testing

****Test Priority:**** High

****Preconditions:****

- * A user must be logged in to the platform.
- * A post or corresponding thread for commenting must be accessible.
- * The emoji reaction functionality must be enabled.

****Test Data:****

- * Various emojis representing different emotions, objects, and activities.

****Test Steps:****

1. Navigate to a post or a thread where comments are allowed.
2. Compose a new comment or message.
3. Select an emoji from the available list within the comment box or message window.

4. Send the comment or message.
5. Verify that the chosen emoji is displayed correctly within the comment or message.

****Postconditions:****

- * The emoji should remain attached to the comment/message.

****Expected Result:****

The user should be able to insert and send emojis within comments and messages. The emojis should be displayed correctly and be recognizable to other users.

****Severity:**** Minor

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case ID:**** TC_EMOJIS_003

****Test Case Title:**** Verify that users can see a count of reactions on posts.

****Test Case Description:**** This test case aims to confirm the display of reaction counts associated with posts. It will verify the accuracy and visibility of these counts, ensuring users can understand the level of engagement a post receives.

****Test Suite:**** User Interface (UI) Testing

****Test Priority:**** High

****Preconditions:****

- * A user must be logged in to the platform.
- * A post must be available on the user's news feed.
- * At least one user must have reacted to the chosen post.
- * The emoji reaction functionality must be enabled.

****Test Data:****

* A post with various reactions attached.

****Test Steps:****

1. Navigate to a post on the user's news feed.
2. Locate the reaction count displayed next to the emoji buttons.
3. Observe the numerical value of the reaction count.
4. Verify that the count accurately reflects the number of reactions received by the post.

****Postconditions:****

* No changes are expected to the reaction count after test execution.

****Expected Result:****

The reaction count displayed next to the post should accurately reflect the total number of reactions it has received.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case ID:**** TC_EMOJIS_004

****Test Case Title:**** Verify that the platform supports a wide range of emojis.

****Test Case Description:**** This test case aims to validate the platform's support for a diverse set of emojis, covering various categories and Unicode standards. It will ensure users have access to a rich set of expressive options.

****Test Suite:**** User Interface (UI) Testing

****Test Priority:**** Medium

****Preconditions:****

* A user must be logged in to the platform.

****Test Data:****

* A curated list of emojis representing different categories (emotions, objects, flags, symbols, etc.).

****Test Steps:****

1. Open the emoji picker or section within the platform (comment box, message window, reaction buttons).
2. Browse through the available emojis, categorizing them based on their representation (emotion, activity, object, etc.).
3. Verify that the platform displays a comprehensive and diverse selection of emojis from various Unicode standards.
4. Check if emojis are grouped or categorized logically for easier selection.

****Postconditions:****

* No changes are expected to the emoji list after test execution.

****Expected Result:****

The platform should support a wide range of emojis from different categories and Unicode standards, enabling users to express themselves diversely.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case ID:** TC_EMOJIS_005**

****Test Case Title:** Verify that users can remove or change their reactions.**

****Test Case Description:** This test case aims to confirm the functionality of modifying or removing previously given reactions to posts. Users should be able to reconsider their initial reactions.**

****Test Suite:** User Interface (UI) Testing**

****Test Priority:** High**

****Preconditions:****

- * A user must be logged in to the platform.
- * The user must have reacted to a specific post using an emoji.
- * The emoji reaction functionality must be enabled.

****Test Data:****

- * A post with an existing reaction from the user.

****Test Steps:****

1. Navigate to the post where the user previously reacted.
2. Locate the previously placed emoji reaction.
3. Click on the selected emoji reaction to trigger its modification or removal.
4. Verify that the user has the option to choose a different emoji reaction or remove their reaction altogether.
5. Select a new emoji reaction or remove the reaction.
6. Ensure that the displayed reaction updates accordingly.

****Postconditions:****

- * The user's reaction should reflect the chosen change or removal.

****Expected Result:****

Users should be able to modify or remove their existing reactions to posts easily and efficiently.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

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Project name -

Social Media Platform

Project description -

Develop a comprehensive social media platform where users can create profiles, connect with friends, share posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending topics and communities. The platform should include features like news feed, messaging, user profiles, privacy settings, notifications, and analytics.

Feature name -

Live Streaming

Feature description -

Live streaming enables users to broadcast real-time video content to their followers or the public. Users can share live events, performances, Q&A sessions, tutorials, and behind-the-scenes footage, allowing for authentic and interactive experiences with their audience.

Userstory title -

As a user, I want to broadcast live video so that I can share real-time events with my followers.

Acceptance criteria -

['Users can start and stop live streams.', 'Live streams can be public or limited to followers.', 'Viewers can interact with the streamer through comments and reactions.', 'The stream should display viewer count and live comments.', 'Users can save the live stream for later viewing.']

Generated Test Cases:

Test Cases for Live Streaming Feature

Project: Social Media Platform

Feature: Live Streaming

User Story: As a user, I want to broadcast live video so that I can share real-time events with my followers.

Test Case 1

Test Case ID: TC_LIVE_001

Test Case Title: Verify that users can start a live stream.

Test Case Description: This test case verifies the functionality of initiating a live stream broadcast.

Test Suite: Live Streaming

Test Priority: High

Preconditions:

- * User is logged into the platform.
- * User has created a profile.
- * User has access to the live streaming feature.

****Test Data:**** None

****Test Steps:****

1. Navigate to the live stream section of the platform.
2. Click on the "Start Live Stream" button.
3. Select the desired privacy settings (Public or Followers only).
4. Confirm the start of the live stream.
5. Observe that the live stream starts successfully and the user's video feed is displayed.

****Postconditions:****

- * The live stream should be running.
- * The viewer count should start at 0.

****Expected Result:****

The live stream should initiate without errors, displaying the user's video feed and corresponding user interface elements for live stream interaction.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 2

****Test Case ID:** TC_LIVE_002**

****Test Case Title:** Verify that users can stop a live stream.**

****Test Case Description:** This test case verifies the functionality of ending a live stream broadcast.**

****Test Suite:** Live Streaming**

****Test Priority:** High**

****Preconditions:****

* A live stream has been successfully initiated.

****Test Data:** None**

****Test Steps:****

1. Open the live stream page while the broadcast is active.
2. Click on the "Stop Live Stream" button.
3. Confirm the stop action.
4. Observe that the live stream ends and the video feed disappears.

****Postconditions:****

- * The live stream should be stopped.
- * The viewer count should reflect the final number of viewers.

****Expected Result:****

The live stream should end without errors and the user interface should reflect the concluded state of the broadcast.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Test Case 3

****Test Case ID:** TC_LIVE_003**

****Test Case Title:** Verify that live streams can be public or limited to followers.**

****Test Case Description:** This test case verifies the functionality of choosing privacy settings for live streams.**

****Test Suite:** Live Streaming**

****Test Priority:** High**

****Preconditions:****

- * User is logged into the platform.
- * User has created a profile.
- * User has access to the live streaming feature.

****Test Data:** None**

****Test Steps:****

1. Navigate to the live stream section of the platform.
2. Click on the "Start Live Stream" button.

3. Select "Public" privacy setting.
4. Select "Followers Only" privacy setting.
5. Observe that the selected privacy setting is reflected in the live stream settings.

****Postconditions:****

* The live stream settings reflect the selected privacy option.

****Expected Result:****

The user should be able to successfully choose between public and follower-only settings for their live streams.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 4

****Test Case ID:**** TC_LIVE_004

****Test Case Title:**** Verify that viewers can interact with the streamer through comments and reactions.

****Test Case Description:**** This test case verifies the functionality of viewer interaction during a live stream.

****Test Suite:**** Live Streaming

****Test Priority:**** High

****Preconditions:****

- * A live stream is running with at least one viewer.

****Test Data:**** Example comments and reactions

****Test Steps:****

1. Join a live stream as a viewer.
2. Enter a comment in the live stream chat box and submit it.
3. Use the available reactions (e.g., like, heart, laugh) to interact with the stream.
4. Verify that the comments and reactions are displayed on the live stream screen.

****Postconditions:****

- * Comments and reactions persist on the live stream screen for a reasonable duration.

****Expected Result:****

Viewers should be able to seamlessly type and submit comments and utilize reactions to interact with the live stream and the streamer.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 5

****Test Case ID:** TC_LIVE_005**

****Test Case Title:**** Verify that the stream displays viewer count and live comments.

****Test Case Description:**** This test case verifies the visual rendering and real-time updates of the viewer count and comments during a live stream.

****Test Suite:**** Live Streaming

****Test Priority:**** High

****Preconditions:****

* A live stream is running.

****Test Data:**** None

****Test Steps:****

1. View the live stream while the stream is ongoing.
2. Observe the real-time updates of the viewer count displayed on the stream interface.
3. Verify the display of live comments from viewers in a chronological order.

****Postconditions:****

* The live viewer count and comment feed should remain synchronized with the current state of the broadcast.

****Expected Result:****

The live stream interface should clearly display the current viewer count, which updates dynamically as viewers join and leave. The live comments section should show the latest comments from viewers in real-time.

****Severity:**** Minor

****Priority:**** Low

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

These test cases provide a starting point for comprehensive testing of the live streaming feature's functionality, ensuring a high-quality user experience. They cover each acceptance criterion and include considerations for positive scenarios as well as potential edge cases. Further test cases may be needed to explore more specific functionalities and edge cases.

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Project name -

Social Media Platform

Project description -

Develop a comprehensive social media platform where users can create profiles, connect with friends, share posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending topics and communities. The platform should include features like news feed, messaging, user profiles, privacy settings, notifications, and analytics.

Feature name -

Stories

Feature description -

Stories are temporary posts that disappear after a certain period, typically 24 hours. Users can share ephemeral

content such as photos, videos, and text overlays in their stories, providing a more casual and spontaneous way to share moments and updates with their followers.

Userstory title -

As a user, I want to share stories so that I can share temporary moments with my followers.

Acceptance criteria -

['Users can create stories with photos, videos, and text overlays.', 'Stories disappear after 24 hours.', 'Users can see who viewed their stories.', 'Stories can be shared publicly or with selected followers.', 'Users can add stickers and filters to their stories.']

Generated Test Cases:

Test Cases for User Story: "As a user, I want to share stories so that I can share temporary moments with my followers."

****Test Case ID:**** TC_ST_001

****Test Case Title:**** Verify that users can create stories with photos.

****Test Case Description:**** This test case verifies the functionality of creating a story using a photo. It involves uploading a photo from the device and ensuring it is displayed correctly in the user's story.

****Test Suite:**** Stories Feature

****Test Priority:**** High

****Preconditions:****

* User has successfully logged in to the platform.

* User has at least one photo available on their device.

****Test Data:****

- * A photo from the user's device.

****Test Steps:****

1. Navigate to the Stories creation screen.
2. Select the "Photo" option from the content types.
3. Choose the desired photo from the device gallery.
4. Add any desired text overlays or filters.
5. Publish the story.

****Postconditions:****

- * The user's story is displayed on their profile and for their followers.
- * The photo is displayed correctly within the story.

****Expected Result:**** The story is successfully created and displayed with the selected photo.

****Severity:**** Blocker

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing

****Test Case Approach:**** Positive

****Test Case ID:** TC_ST_002**

****Test Case Title:** Verify that users can create stories with videos.**

****Test Case Description:** This test case verifies the functionality of creating a story using a video. It involves selecting a video from the device and ensuring it is played correctly within the story.**

****Test Suite:** Stories Feature**

****Test Priority:** High**

****Preconditions:****

- * User has successfully logged in to the platform.
- * User has at least one video available on their device.

****Test Data:****

- * A video from the user's device.

****Test Steps:****

1. Navigate to the Stories creation screen.
2. Select the "Video" option from the content types.
3. Choose the desired video from the device gallery.
4. Add any desired text overlays or filters.

5. Publish the story.

****Postconditions:****

* The user's story is displayed on their profile and for their followers.

* The video is displayed and playable within the story.

****Expected Result:**** The story is successfully created and displayed with the selected video.

****Severity:**** Blocker

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_ST_003

****Test Case Title:**** Verify that stories disappear after 24 hours.

****Test Case Description:**** This test case verifies that stories have a defined lifespan of 24 hours and automatically disappear after that period.

****Test Suite:**** Stories Feature

****Test Priority:**** Medium

****Preconditions:****

- * User has successfully created and published a story.
- * Wait for at least 24 hours.

****Test Data:****

- * The previously published story

****Test Steps:****

1. Access the user's story archive or timeline.
2. Locate the previously published story.

****Postconditions:****

- *
The story is no longer visible on the user's profile or their followers' feeds.

****Expected Result:**** The story has disappeared after the 24-hour period.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Regression Testing

****Test Case Approach:** Positive**

****Test Case ID:** TC_ST_004**

****Test Case Title:** Verify that users can share stories with selected followers.**

****Test Case Description:** This test case verifies the functionality of sharing a story with a specific group of followers instead of all followers.**

****Test Suite:** Stories Feature**

****Test Priority:** High**

****Preconditions:****

* User has successfully logged in to the platform and has at least two followers.

* User has created a new story.

****Test Data:****

* A list of selected followers.

****Test Steps:****

1. Navigate to the story editing screen.
2. Select the "Share with" option.

3. Choose the desired set of followers from the list.

****Postconditions:****

* The story is published.

* Only the selected followers can view the story.

****Expected Result:**** The story is visible only to the chosen group of followers.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_ST_005

****Test Case Title:**** Verify that users can add stickers and filters to their stories.

****Test Case Description:**** This test case verifies the functionality of adding stickers and filters to stories for visual customization.

****Test Suite:**** Stories Feature

****Test Priority:**** Medium

****Preconditions:****

* User has successfully logged in to the platform.

* User has created a new story.

****Test Data:****

* Stickers and filters available within the platform.

****Test Steps:****

1. Navigate to the story editing screen.
2. Access the sticker or filter library.
3. Select a sticker or filter and apply it to the story.

****Postconditions:****

* The sticker or filter is successfully added to the story.

****Expected Result:**** The chosen sticker or filter is visually incorporated into the story.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Usability Testing

****Test Case Approach:** Positive**

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Project name -

Social Media Platform

Project description -

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Feature name -

Analytics and Insights

Feature description -

Analytics and insights provide users with data and metrics about their activity, audience engagement, and content performance on the platform. Users can access information such as follower demographics, post reach, engagement metrics, and audience growth trends, helping them optimize their presence and strategy on the platform.

Userstory title -

As a user, I want to access analytics and insights so that I can understand my audience and optimize my content.

Acceptance criteria -

['Users can view data on follower demographics.', 'Post reach and engagement metrics are available.', 'Users can track audience growth trends.', 'Analytics are displayed in a user-friendly format.', 'Data can be filtered by time range and content type.']

Generated Test Cases:

Here are 5 detailed test cases for the "Analytics and Insights" feature in the Social Media Platform project, following the provided template:

Test Case 1

* **Test Case ID:** TC_AINS_001

* **Test Case Title:** Verify that users can view data on follower demographics

* **Test Case Description:**

This test case verifies that a user with followers can view demographic data about their audience, including age range, gender distribution, and location.

* **Test Suite:** Analytics and Insights

* **Test Priority:** High

* **Preconditions:**

- * A user account with at least 5 followers.

- * Followers should have provided demographic information during registration.

* **Test Data:** Sample user account with followers.

* **Test Steps:**

1. Log in to the platform using the prepared user account.
2. Navigate to the user analytics dashboard.
3. Verify that the "Follower Demographics" section is displayed.
4. Check that data is available for age ranges, gender, and location.

5. Verify that the data is presented in a clear and understandable format.

* **Postconditions:**

* User remains logged in.

* **Expected Result:** Follower demographic data should be accurately displayed and categorized.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** System Testing

* **Test Case Approach:** Positive

Test Case 2

* **Test Case ID:** TC_AINS_002

* **Test Case Title:** Verify that post reach and engagement metrics are available

* **Test Case Description:**

This test case verifies that the platform provides data on post reach (number of unique users who saw a post) and engagement metrics (likes, comments, shares) for individual posts.

* **Test Suite:** Analytics and Insights

* **Test Priority:** High

* **Preconditions:**

* A user account that has published at least 3 posts.

* **Test Data:** Sample user account with published posts.

* **Test Steps:**

1. Log in to the platform using the prepared user account.

2. Navigate to the analytics dashboard.
3. Select one of the published posts.
4. Verify that the "Post Performance" section displays data for reach and engagement metrics (likes, comments, shares).
5. Repeat steps 3-4 for at least two other published posts.

* **Postconditions:**

- * User remains logged in.

* **Expected Result:** Reach and engagement metrics should be accurately reported for each selected post.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** System Testing

* **Test Case Approach:** Positive

****Test Case 3****

* **Test Case ID:** TC_AINS_003

* **Test Case Title:** Verify that users can track audience growth trends

* **Test Case Description:**

This test case verifies that users can see trends in their follower growth over time.

* **Test Suite:** Analytics and Insights

* **Test Priority:** Medium

* **Preconditions:**

- * A user account with a history of follower changes over at least 30 days.

* **Test Data:** Sample user account with a history of follower changes.

* **Test Steps:**

1. Log in to the platform using the prepared user account.
2. Navigate to the analytics dashboard.
3. Locate the "Audience Growth" section or chart.
4. Verify that the chart displays follower growth trends over time.
5. Check if the chart allows users to filter by time range (e.g., day, week, month).

* **Postconditions:**

* User remains logged in.

* **Expected Result:** A visual representation of follower growth trends should be displayed, with the ability to filter by different time periods.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** System Testing

* **Test Case Approach:** Positive

Test Case 4

* **Test Case ID:** TC_AINS_004

* **Test Case Title:** Verify that analytics are displayed in a user-friendly format

* **Test Case Description:**

This test case verifies that the presented analytical data is clear, concise, and easy to understand for a user.

* **Test Suite:** Analytics and Insights

* **Test Priority:** Medium

* **Preconditions:**

- * Access to the user analytics dashboard.

* **Test Data:** None

* **Test Steps:**

1. Navigate to the user analytics dashboard.
2. Review the layout and design of the dashboard.
3. Assess the clarity of the presented data points and visualizations.
4. Check for proper use of labels, charts, graphs, and color-coding.

* **Postconditions:**

- * None

* **Expected Result:** The analytics dashboard should have an intuitive layout, making it easy for users to understand key information and insights.

* **Severity:** Minor

* **Priority:** Medium

* **Type of Testing:** Usability Testing, System Testing

* **Test Case Approach:** Positive

****Test Case 5****

* **Test Case ID:** TC_AINS_005

* **Test Case Title:** Verify that data can be filtered by time range and content type

* **Test Case Description:**

This test case verifies the functionality of filtering analytics data by specific time periods and content types.

* **Test Suite:** Analytics and Insights

* **Test Priority:** Medium

* **Preconditions:**

- * Uploaded posts with different content types (text, photo, video).

* **Test Data:** Sample user account with a history of posts.

* **Test Steps:**

1. Log in to the platform using the prepared user account.
2. Navigate to the analytics dashboard.
3. Filter data by a specific time range (e.g., last week, last month).
4. Confirm that the displayed data reflects the selected time period.
5. Filter data by a specific content type (e.g., photos only, or videos only).
6. Confirm that the displayed data reflects the selected content type.

* **Postconditions:**

- * User remains logged in.

* **Expected Result:** Filtering functionality should accurately restrict data to the specified time range and content type.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** System Testing

* **Test Case Approach:** Positive

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Project name -

Social Media Platform

Project description -

Develop a comprehensive social media platform where users can create profiles, connect with friends, share posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending topics and communities. The platform should include features like news feed, messaging, user profiles, privacy settings, notifications, and analytics.

Feature name -

Events and Groups

Feature description -

Events and groups enable users to organize and participate in events, communities, or interest-based groups on the platform. Users can create events, RSVP to invitations, join groups, and participate in discussions, fostering community engagement and connection around shared interests.

Userstory title -

As a user, I want to join events and groups so that I can connect with people who share my interests.

Acceptance criteria -

['Users can create and join events.', 'Users can join interest-based groups.', 'Group discussions can be organized by topic.', 'Event details include date, time, location, and description.', 'Users can RSVP to events and see the list of attendees.']

Generated Test Cases:

Here are 5 test cases for the "Events and Groups" user story, following the provided template:

****Test Case 1:****

* ****Test Case ID:**** TC_EVENT_GRP_001

* ****Test Case Title:**** Verify that users can create an event.

* ****Test Case Description:**** This test case verifies the functionality of creating an event by a user, including providing mandatory event details.

* ****Test Suite:**** Event and Groups

* ****Test Priority:**** High

* ****Preconditions:****

* A valid registered user account is available.

* ****Test Data:****

* Event name: "Book Club Meeting"

* Date: 2024-03-15

* Time: 07:00 PM

* Location: "Local Coffee Shop"

* Description: "Discussion on the latest novel"

* ****Test Steps:****

1. Log in as a registered user.

2. Navigate to the "Events" section.

3. Click on "Create New Event."

4. Fill in the event details with the provided data.

5. Click on "Save Event."

6. Verify that the created event is displayed with the submitted details.

* ****Postconditions:****

* The event is visible on user's profile Events tab

* **Expected Result:** The event is successfully created and displayed with the provided details.

* **Severity:** Major

* **Priority:** High

* **Type of Testing:** Functional Testing, Acceptance Testing

* **Test Case Approach:** Positive

Test Case 2:

* **Test Case ID:** TC_EVENT_GRP_002

* **Test Case Title:** Verify that users can RSVP to events.

* **Test Case Description:** This test case validates the ability of a user to RSVP to an event and checks the display of attendee list.

* **Test Suite:** Event and Groups

* **Test Priority:** High

* **Preconditions:**

- * A valid registered user account is available.

- * An event has been created (from Test Case 1).

* **Test Data:**

- * User to RSVP: "John Doe"

* **Test Steps:**

1. Log in as "John Doe."

2. Navigate to the event page.

3. Click on the "RSVP" button.

4. Verify that the RSVP status is changed to "Attending."

5. Visit the event page again and confirm that "John Doe" is listed in the attendee list.

* **Postconditions:**

- * The user is successfully enrolled as an attendee.

* **Expected Result:** "John Doe" is able to RSVP and is displayed as an attendee on the event page.

* **Severity:** Major

* **Priority:** High

* **Type of Testing:** Functional Testing, Acceptance Testing

* **Test Case Approach:** Positive

Test Case 3:

* **Test Case ID:** TC_EVENT_GRP_003

* **Test Case Title:** Verify that users can join interest-based groups.

* **Test Case Description:** This test case verifies if a user can successfully join an interest-based group, checking group visibility and membership status.

* **Test Suite:** Event and Groups

* **Test Priority:** Medium

* **Preconditions:**

- * A valid registered user account is available.

- * An interest-based group exists (e.g., "Book Lovers").

* **Test Data:**

* **Test Steps:**

1. Log in as a registered user.
2. Navigate to the "Groups" section.
3. Search for the "Book Lovers" group.
4. Click on the "Join Group" button.
5. Verify that the user is now listed as a member of the "Book Lovers" group.

* **Postconditions:**

- * The user now has access to group discussions and content.

* **Expected Result:** The user successfully joins the group and their membership status is reflected.

* **Severity:** Minor

* **Priority:** Medium

* **Type of Testing:** Functional Testing, Acceptance Testing

* **Test Case Approach:** Positive

Test Case 4:

* **Test Case ID:** TC_EVENT_GRP_004

* **Test Case Title:** Verify that group discussions can be organized by topic

* **Test Case Description:** This test case checks if groups allow for topic-based discussions to maintain organization.

* **Test Suite:** Event and Groups

* **Test Priority:** Medium

* **Preconditions:**

- * A valid registered user account is available.

- * A group exists (e.g., "Photography Enthusiasts")

* **Test Data:**

* **Test Steps:**

1. Log in as a registered user.
2. Navigate to the "Photography Enthusiasts" group.
3. Locate the discussion section within the group.
4. Create a new discussion thread with a clear and specific topic (e.g., "Tips for Landscape Photography").

* **Postconditions:**

- * The new discussion should be categorized or tagged under the "Landscape Photography" topic.
- * **Expected Result:** The user can create topic-specific discussions within the group.
- * **Severity:** Minor
- * **Priority:** Medium
- * **Type of Testing:** Functional Testing, Acceptance Testing
- * **Test Case Approach:** Positive

****Test Case 5:****

- * **Test Case ID:** TC_EVENT_GRP_005
- * **Test Case Title:** Verify that event details are displayed correctly.
- * **Test Case Description:** This test case checks the accuracy of event details displayed on the event page.
- * **Test Suite:** Event and Groups
- * **Test Priority:** High
- * **Preconditions:**
 - * An event has been created (from Test Case 1).
- * **Test Data:**
- * **Test Steps:**
 1. Log in as any user.
 2. Navigate to the created event page.
 3. Verify that the event title, date, time, location, and description are displayed accurately.
- * **Postconditions:**
- * **Expected Result:** All event details are presented correctly and intuitively.
- * **Severity:** Major
- * **Priority:** High
- * **Type of Testing:** Functional Testing, Acceptance Testing

* **Test Case Approach:** Positive

Remember to adapt these test cases to the specific implementation details of your social media platform.

Consider adding additional test cases to cover edge cases, negative scenarios, and security considerations.

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Project name -

Social Media Platform

Project description -

Develop a comprehensive social media platform where users can create profiles, connect with friends, share posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending topics and communities. The platform should include features like news feed, messaging, user profiles, privacy settings, notifications, and analytics.

Feature name -

Monetization Options

Feature description -

Monetization options allow users to earn money through various means on the platform. This may include advertising revenue, sponsored content partnerships, affiliate marketing programs, subscriptions, virtual gifts, or donations from followers, providing creators and influencers with opportunities to monetize their content and audience.

Userstory title -

As a content creator, I want to access monetization options so that I can earn revenue from my content.

Acceptance criteria -

['Users can apply for monetization options.', 'Monetization includes advertising revenue and sponsored content.', 'Users can receive payments through the platform.', 'Detailed earnings reports are available.', 'Monetization eligibility requirements are clearly stated.']

Generated Test Cases:

Test Cases for Monetization Options Feature

****Test Case ID:**** TC_MNT_01

****Test Case Title:**** Verify that users can apply for monetization options.

****Test Case Description:****

This test case verifies the functionality allowing users to apply for monetization options on the platform. It simulates a user attempting to initiate the monetization application process and checks for successful navigation and accessibility of the application form.

****Test Suite:**** Monetization Feature Testing

****Test Priority:**** High

****Preconditions:****

- * User has a registered account on the platform.
- * User account meets the minimum requirements for monetization eligibility.
- * User is logged into the platform.

****Test Data:****

No test data needed

****Test Steps:****

1. Navigate to the user profile page.
2. Locate and click on the "Monetization Options" or "Earn Money" button.

3. Verify that a monetization application form is displayed.
4. Check if the form requires necessary information (e.g., payment details, content category).
5. Observe if there are clear instructions and guidelines for completing the application.

****Postconditions:****

- * Application form is submitted successfully
- * Platform acknowledges the application receipt.

****Expected Result:****

The user can successfully access and navigate to the monetization application form. All required fields are displayed, and the instructions are comprehensive and clear.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing, Acceptance Testing, User Interface Testing**

****Test Case Approach:** Positive Testing**

****Test Case ID:** TC_MNT_02**

****Test Case Title:** Verify that users are informed about monetization eligibility requirements.**

****Test Case Description:****

This test case verifies that the platform clearly displays monetization eligibility requirements to users. It ensures that potential applicants understand the criteria for earning money and are not misled.

****Test Suite:** Monetization Feature Testing**

****Test Priority:** Medium**

****Preconditions:****

* User has a registered account on the platform.

****Test Data:****

No test data needed

****Test Steps:****

1. Navigate to the "Monetization Options" or "Earn Money" page.
2. Examine the displayed information regarding monetization eligibility.
3. Look for details about required follower counts, content quality standards, or other specific criteria.
4. Check if the platform provides links to detailed guidelines or FAQs on monetization requirements.

****Postconditions:****

* User understands the monetization criteria

****Expected Result:****

The platform clearly and concisely outlines all monetization eligibility requirements. The information is easily accessible and understandable, including links to detailed resources for further clarification.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing, User Interface Testing, Information Architecture Testing

****Test Case Approach:**** Positive Testing

****Test Case ID:**** TC_MNT_03

****Test Case Title:**** Verify that monetization includes advertising revenue and sponsored content.

****Test Case Description:****

This test case verifies the inclusion of advertising revenue and sponsored content as monetization options on the platform. It verifies that the platform offers mechanisms for both revenue streams and ensures that they are accessible to eligible users.

****Test Suite:**** Monetization Feature Testing

****Test Priority:**** High

****Preconditions:****

- * User has a registered account on the platform.
- * User account meets the minimum requirements for monetization eligibility.
- * User has opted into monetization.

****Test Data:**** Ad sample creatives, Sponsored content campaign parameters

****Test Steps:****

1. Access the monetization dashboard for eligible users.
2. Verify that options for "Advertising Revenue" and "Sponsored Content" are clearly displayed.
3. Explore the settings related to advertising revenue, such as ad formats, placement, and payment structure.
4. Examine the functionalities for participating in sponsored content campaigns, including content proposals and campaign management.
5. Review the platform's policies and guidelines regarding advertising and sponsored content.

****Postconditions:****

- * User understands the platform's advertising and sponsorship options
- * Platform policies are clear and comprehensive

****Expected Result:****

The platform offers both advertising revenue and sponsored content as monetization options, outlining clear guidelines, policies, and functionalities for each.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing, User Interface Testing, Acceptance Testing**

****Test Case Approach:** Positive Testing**

****Test Case ID:** TC_MNT_04**

****Test Case Title:** Verify that users can receive payments through the platform.**

****Test Case Description:****

This test case verifies the functionality allowing users to receive payments for their monetized content. It simulates a successful monetization scenario and checks for the proper processing and disbursement of funds.

****Test Suite:** Monetization Feature Testing**

****Test Priority:** High**

****Preconditions:****

- * User has a registered account on the platform.
- * User account meets the minimum requirements for monetization eligibility.
- * User has opted into monetization and accumulated earnings.
- * Payment gateway integration is functional.

****Test Data:****

* Simulated earnings data

* Valid payment information (bank account or other payment method)

****Test Steps:****

1. Navigate to the user's monetization dashboard.
2. Verify that the earnings balance is accurately reflected.
3. Initiate a withdrawal request for a predetermined amount.
4. Input valid payment information.
5. Observe the confirmation process for the withdrawal request.

****Postconditions:****

- * Withdrawal request is submitted successfully
- * Users receive a confirmation of the withdrawal request
- . Payment is successfully transferred to the user's account

****Expected Result:****

The platform processes and disburses payment requests successfully. Users receive timely notifications and confirmations regarding their withdrawal requests and payment transactions.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing, Integration Testing, Payment Gateway Integration Testing**

****Test Case Approach:** Positive Testing**

****Test Case ID:** TC_MNT_05**

****Test Case Title:** Verify that detailed earnings reports are available to users.**

****Test Case Description:****

This test case verifies the availability and detail level of earnings reports provided to users. It ensures that users can access comprehensive breakdowns of their income sources and earnings history.

****Test Suite:** Monetization Feature Testing**

****Test Priority:** Medium**

****Preconditions:****

- * User has a registered account on the platform.
- * User account meets the minimum requirements for monetization eligibility.
- * User has opted into monetization and earned revenue.

****Test Data:****

- * Simulated earnings data across various revenue streams.

****Test Steps:****

1. Navigate to the user's monetization dashboard.
2. Locate and access the "Earnings Reports" or "Transaction History" section.
3. Examine the report for detailed breakdowns of earnings from different sources (e.g., advertising revenue, sponsored content).
4. Verify that the report includes timestamps, amounts, and descriptions of each earning event.
5. Check if the report allows filtering or sorting by date range, revenue source, or other relevant criteria.

****Postconditions:****

- * User can access detailed earnings reports

****Expected Result:****

The platform provides comprehensive earnings reports that offer users detailed insights into their revenue streams, earnings history, and payment transactions. The reports are easy to understand, well-organized,

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing, User Interface Testing

****Test Case Approach:**** Positive Testing

These are just a few examples of test cases that can be generated for the given user story and acceptance criteria. You should tailor these test cases further and add more based on the specific design and functionalities of your social media platform.

Data - 15

Project name -

Social Media Platform

Project description -

Develop a comprehensive social media platform where users can create profiles, connect with friends, share posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending topics and communities. The platform should include features like news feed, messaging, user profiles, privacy settings, notifications, and analytics.

Feature name -

Explore or Discover Tab

Feature description -

The explore or discover tab curates trending or popular content from across the platform, helping users discover new accounts, topics, and trends. The tab may feature personalized recommendations based on users' interests, engagement history, and social connections, facilitating content discovery and exploration.

Userstory title -

As a user, I want to explore trending content so that I can discover new and popular posts, accounts, and topics.

Acceptance criteria -

['The explore tab shows trending and popular content.', 'Content recommendations are personalized based on user interests.', 'Users can filter content by category or topic.', 'The tab updates regularly with new content.', 'Users can save or follow content from the explore tab.']

Generated Test Cases:

Social Media Platform Test Cases: Explore Tab

****Test Case ID:**** EXPLOB-001

****Test Case Title:**** Verify that trending content is displayed in the Explore Tab.

****Test Case Description:**** This test case verifies that the Explore Tab displays trending content based on platform-wide popularity.

****Test Suite:**** Explore Tab Functionality

****Test Priority:**** High

****Preconditions:****

* User is logged in to the platform.

* The Explore tab is accessible.

****Test Data:**** No test data needed

****Test Steps:****

1. Navigate to the Explore tab.
2. Observe the content displayed on the Explore tab.
3. Verify that the displayed content includes a mix of posts, accounts, and topics that are currently trending.

****Postconditions:**** None

****Expected Result:**** The Explore tab displays trending content as defined by platform algorithms.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** EXPLOB-002

****Test Case Title:**** Verify that content recommendations are personalized based on user interests.

****Test Case Description:**** This test case verifies that the Explore tab displays personalized content recommendations based on the user's interests and past interactions.

****Test Suite:**** Explore Tab Functionality

****Test Priority:** High**

****Preconditions:****

- * User is logged in to the platform.
- * User has interacted with certain posts, accounts, or topics in the past (e.g., liked, commented, followed).
- * The Explore tab is accessible.

****Test Data:**** User's past interaction data (likes, comments, follows)

****Test Steps:****

1. Log in as the user.
2. Navigate to the Explore tab.
3. Observe the content displayed on the Explore tab.
4. Verify that the displayed content aligns with the user's past interests and interactions.

****Postconditions:** None**

****Expected Result:**** The Explore tab displays personalized content recommendations based on the user's history.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** EXPLOB-003**

****Test Case Title:** Verify that users can filter content by category or topic.**

****Test Case Description:**** This test case verifies that the Explore tab provides filtering options by category or topic, allowing users to refine their content discovery.

****Test Suite:**** Explore Tab Functionality

****Test Priority:**** Medium

****Preconditions:****

* User is logged in to the platform.

* The Explore tab is accessible.

* Multiple content categories or topics are available on the platform.

****Test Data:**** Various category/topic names

****Test Steps:****

1. Navigate to the Explore tab.
2. Identify the filtering options available (e.g., dropdown menu, checkboxes).
3. Select a specific category or topic from the filtering options.
4. Observe the content displayed on the Explore tab.
5. Verify that the displayed content aligns with the selected category or topic.

****Postconditions:**** None

****Expected Result:**** The Explore tab filters content based on the selected category or topic.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:** Positive**

****Test Case ID:** EXPLOB-004**

****Test Case Title:** Verify that the Explore tab updates regularly with new content.**

****Test Case Description:** This test case verifies that the Explore tab refreshes and displays updated trending content at regular intervals.**

****Test Suite:** Explore Tab Functionality**

****Test Priority:** Medium**

****Preconditions:****

- * User is logged in to the platform.
- * The Explore tab is accessible.

****Test Data:** No test data needed**

****Test Steps:****

1. Navigate to the Explore tab.
2. Note the time and observe the content displayed.
3. Wait for a predetermined period (e.g., 30 minutes).
4. Refresh the Explore tab.
5. Observe the content displayed.

****Postconditions:** None**

****Expected Result:**** The Explore tab displays updated trending content after a specific time interval.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Performance Testing

****Test Case Approach:**** Positive, Negative

****Test Case ID:**** EXPLOB-005

****Test Case Title:**** Verify that users can save or follow content from the Explore tab.

****Test Case Description:**** This test case verifies that users can save or follow posts, accounts, or topics discovered within the Explore tab.

****Test Suite:**** Explore Tab Functionality

****Test Priority:**** High

****Preconditions:****

* User is logged in to the platform.

* The Explore tab is accessible.

* There are posts, accounts, or topics to save or follow.

****Test Data:**** A post, account, or topic from the Explore tab

****Test Steps:****

1. Navigate to the Explore tab.
2. Identify a post, account, or topic that the user wants to save or follow.
3. Click the "Save" or "Follow" button (depending on the platform's interface).
4. Verify that the post, account, or topic is saved or followed.

****Postconditions:**** None

****Expected Result:**** Users can successfully save or follow content from the Explore tab.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive, Negative

Data - 16

Project name -

Social Media Platform

Project description -

Develop a comprehensive social media platform where users can create profiles, connect with friends, share

posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending topics and communities. The platform should include features like news feed, messaging, user profiles, privacy settings, notifications, and analytics.

Feature name -

Accessibility Features

Feature description -

Accessibility features ensure that the platform is inclusive and accessible to users with disabilities. This may include features such as alt text for images, screen reader compatibility, keyboard shortcuts, color contrast options, and adjustable font sizes, enhancing usability and accessibility for all users.

Userstory title -

As a user with disabilities, I want accessible features so that I can use the platform comfortably.

Acceptance criteria -

['The platform provides alt text for images.', 'Screen reader compatibility is available.', 'Keyboard shortcuts can be used for navigation.', 'Color contrast and font size options are provided.', 'Accessibility features are clearly documented.']

Generated Test Cases:

Test Cases for Accessibility Features

Here are 5 detailed test cases for the "Accessibility Features" of the Social Media Platform, ensuring all acceptance criteria are covered:

****Test Case 1****

*** **Test Case ID:****

TC_Accessibility_01

*** **Test Case Title:**** Verify that alt text is provided for images.

* **Test Case Description:** This test case verifies the presence of alt text for various images displayed on the platform, ensuring visual descriptions are available for screen reader users.

* **Test Suite:** Accessibility

* **Test Priority:** High

* **Preconditions:**

- * User is logged into the platform.

- * Images are present on various pages (newsfeed, user profile, post content).

* **Test Data:**

- * Sample images with different content and purposes (e.g., profile picture, landscape photo, logo).

* **Test Steps:**

1. Navigate to the newsfeed page.

2. Select an image using a screen reader.

3. verify that the alt text associated with the image is read aloud by the screen reader, providing a meaningful description.

4. Repeat steps 1-3 for different image types (profile pictures, landscape photos, logos) on various pages.

* **Postconditions:**

- * No changes made to the platform's settings or content.

* **Expected Result:**

- * All images display relevant and descriptive alt text, understood by screen readers.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:**

Functional Testing, Usability Testing

* **Test Case Approach:** Positive

****Test Case 2****

* **Test Case ID:**

TC_Accessibility_02

* **Test Case Title:** Verify keyboard navigation across platform features.

* **Test Case Description:** This test case assesses the functionality of keyboard shortcuts and tab order to ensure seamless navigation for users who cannot utilize a mouse.

* **Test Suite:** Accessibility

* **Test Priority:** High

* **Preconditions:**

- * User is logged into the platform.

- * Keyboard is connected to the device.

* **Test Data:**

*No test data needed

* **Test Steps:**

1. Open the platform using only the keyboard (e.g., Tab key to navigate menus and elements).
2. Navigate to key areas (newsfeed, profile, search, notifications).
3. Verify that focus indicators are visible and responsive to keyboard navigation.
4. Test basic interactions using keyboard shortcuts (e.g., Enter key to submit forms, Spacebar to navigate through options).
5. Attempt to navigate to all key platform elements using only the keyboard.

* **Postconditions:**

- * No changes made to the platform's settings or content.

* **Expected Result:**

- * All platform features are accessible and navigable using only a keyboard, with clear focus indicators and responsive key interactions.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:**

Functional Testing, Usability Testing

* **Test Case Approach:** Positive

Test Case 3

* **Test Case ID:**

TC_Accessibility_03

* **Test Case Title:** Verify color contrast and font size options.

* **Test Case Description:** This test case aims to ensure that the platform provides adjustable color contrast and font sizes to cater to different visual sensitivities and preferences.

* **Test Suite:** Accessibility

* **Test Priority:** Medium

* **Preconditions:**

- * User is logged into the platform

* **Test Data:**

*No test data needed

* **Test Steps:**

1. Navigate to the platform's accessibility settings.
2. Adjust the color contrast setting to the darkest and lightest available options.
3. Verify that text and background colors remain clearly distinguishable at both extremes.
4. Adjust the font size setting to the smallest and largest available options.
5. Verify that the text remains legible and accessible at both extreme sizes.
6. Test various platform elements (text, buttons, links) with adjusted settings.

* **Postconditions:**

- * User reverts accessibility settings to their original values.

* **Expected Result:**

- * The platform maintains clear text and background color contrast at all adjusted levels.

* Important elements remain legible and usable at both smallest and largest font sizes.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:**

Functional Testing, Usability Testing

* **Test Case Approach:** Positive

Test Case 4

* **Test Case ID:**

TC_Accessibility_04

* **Test Case Title:** Verify screen reader compatibility.

* **Test Case Description:** This test case checks the compatibility of the platform with screen readers to ensure users with visual impairments can access and interact with all features.

* **Test Suite:** Accessibility

* **Test Priority:** High

* **Preconditions:**

* User is logged into the platform

* A screen reader like NVDA, JAWS, or VoiceOver is installed and configured.

* **Test Data:**

* Sample text content with headings, lists, and interactive elements.

* **Test Steps:**

1. Start the screen reader and navigate the platform using screen reader commands (e.g., arrow keys, Enter).
2. Verify that page structure, headings, and navigation are clearly conveyed by the screen reader.
3. Test interactive elements (buttons, links, forms) to ensure they are announced correctly and navigated smoothly.
4. Use screen reader features (e.g., "Read Page" command) to ensure all content is accessible.

* **Postconditions:**

- * Screen reader is disabled.

* **Expected Result:**

- * The screen reader accurately identifies and announces platform elements, providing a clear understanding of content and navigation options.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, Usability Testing

* **Test Case Approach:** Positive

****Test Case 5****

* **Test Case ID:**

TC_Accessibility_05

* **Test Case Title:** Verify accessibility documentation is clear and comprehensive.

* **Test Case Description:** This test case evaluates the provided accessibility documentation for completeness, clarity, and usability.

* **Test Suite:** Accessibility

* **Test Priority:** Low

* **Preconditions:**

- * Accessibility documentation is readily available on the platform.

* **Test Data:**

- * The accessibility guidelines and user guide provided in the documentation.

* **Test Steps:**

1. Locate the accessibility documentation on the platform.
2. Review the information provided on screen reader compatibility, keyboard navigation, color contrast

settings, and font adjustments.

3. Assess the clarity, language, and organization of the documentation.

4. Evaluate the comprehensiveness of the documentation, ensuring all essential accessibility features are addressed.

* **Postconditions:**

* No changes made to the accessibility documentation.

* **Expected Result:**

* The accessibility documentation is readily accessible, clearly written, organized logically, and comprehensively covers all accessibility features of the platform.

* **Severity:** Minor

* **Priority:** Low

* **Type of Testing:** Usability Testing

* **Test Case Approach:** Positive

Data - 17

Project name -

Social Media Platform

Project description -

Develop a comprehensive social media platform where users can create profiles, connect with friends, share posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending topics and communities. The platform should include features like news feed, messaging, user profiles,

privacy settings, notifications, and analytics.

Feature name -

Safety and Moderation Tools

Feature description -

Safety and moderation tools are designed to protect users from harmful or inappropriate content and interactions on the platform. This may include features such as content moderation algorithms, reporting tools, blocking capabilities, comment filters, and community guidelines enforcement, fostering a safer and more positive online environment.

Userstory title -

As a user, I want safety and moderation tools so that I can have a safe and positive experience on the platform.

Acceptance criteria -

['Content moderation algorithms filter inappropriate content.', 'Users can report harmful or inappropriate content.', 'Blocking capabilities are available to users.', 'Comment filters prevent offensive language.', 'Community guidelines are enforced consistently.']

Generated Test Cases:

Social Media Platform - Safety and Moderation Tools Test Cases

****Test Case ID:**** TC-SPM-01

****Test Case Title:**** Verify that content moderation algorithms filter out offensive language.

****Test Case Description:**** This test case aims to verify the effectiveness of the content moderation algorithms in identifying and filtering out offensive language from user posts.

****Test Suite:**** Safety and Moderation Tools

****Test Priority:**** High

****Preconditions:****

* A user account is created.

* The platform is running with content moderation algorithms enabled.

* A list of common offensive words/phrases is prepared.

****Test Data:****

* List of offensive words/phrases

* Sample posts containing these offensive words/phrases

****Test Steps:****

1. Log in to the platform using the created user account.
2. Compose a post containing one of the offensive words/phrases from the prepared list.
3. Attempt to publish the post.
4. Observe the outcome of the post publication attempt.
5. Repeat steps 2-4 for all offensive words/phrases in the prepared list.

****Postconditions:****

- * The platform should display an appropriate error message indicating the post violates community guidelines.
- * The offensive post should not be published on the user's profile or the news feed.

****Expected Result:**** All posts containing offensive language from the prepared list are blocked by the content moderation algorithms and not published.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Negative

****Test Case ID:**** TC-SPM-02

****Test Case Title:**** Verify that users can successfully report harmful or inappropriate content.

****Test Case Description:**** This test case verifies the functionality of the content reporting feature, ensuring users can easily flag inappropriate content for review by moderators.

****Test Suite:**** Safety and Moderation Tools

****Test Priority:**** High

****Preconditions:****

- * A user account is created.

- * A post containing harmful or inappropriate content is published by another user.

****Test Data:****

- * Post containing harmful or inappropriate content

****Test Steps:****

1. Log in to the platform using the created user account.
2. Locate the post containing harmful or inappropriate content.
3. Click the "Report" button associated with the post.
4. Select the appropriate category for the reported content from the provided options.
5. Optionally, add a brief explanation for reporting the content.
6. Submit the report.

****Postconditions:****

- * The reporting action is successfully completed, and a confirmation message is displayed.

****Expected Result:**** The reported content is flagged for review by platform moderators.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:** Positive**

****Test Case ID:** TC-SPM-03**

****Test Case Title:** Verify that blocking capabilities prevent interactions with blocked users.**

****Test Case Description:** This test case checks the functionality of the blocking feature, ensuring that blocked users are prevented from interacting with the target user.**

****Test Suite:** Safety and Moderation Tools**

****Test Priority:** High**

****Preconditions:****

* Two user accounts are created.

****Test Data:****

* Users' usernames

****Test Steps:****

1. Log in to the platform using the first user account.
2. Locate the profile of the second user account.
3. Initiate the blocking process for the second user account.
4. Log out of the first account and log in to the second account.
5. Attempt to send a message to the user associated with the first account.
6. Observe the outcome of the attempt to send a message.

****Postconditions:****

* After logging in to the second account, it should be unable to send a message to the first account.

****Expected Result:** The second account is unable to send messages or otherwise interact with the first**

account after successfully blocking.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Negative

****Test Case ID:**** TC-SPM-04

****Test Case Title:**** Verify that comment filters prevent offensive language.

****Test Case Description:**** This test case evaluates the effectiveness of comment filters in blocking offensive language from appearing in the comment section of posts.

****Test Suite:**** Safety and Moderation Tools

****Test Priority:**** High

****Preconditions:****

- * A user account is created.

- * A post is published.

- * A list of common offensive words/phrases is prepared.

****Test Data:****

- * List of offensive words/phrases

- * Sample comments containing these offensive words/phrases

****Test Steps:****

1. Log in to the platform using the created user account.
2. Locate the published post.
3. Compose a comment containing one of the offensive words/phrases from the prepared list.
4. Attempt to post the comment.

5. Observe the outcome of the comment attempt.

6. Repeat steps 3-5 for all offensive words/phrases in the prepared list.

****Postconditions:****

* No offensive comments should be visible on the post.

****Expected Result:**** All comments containing offensive language from the prepared list are filtered and do not appear in the comment section.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Negative

****Test Case ID:**** TC-SPM-05

****Test Case Title:**** Verify that community guidelines are enforced consistently.

****Test Case Description:**** This test case aims to verify the consistent enforcement of community guidelines across various user actions and interactions.

****Test Suite:**** Safety and Moderation Tools

****Test Priority:**** Medium

****Preconditions:****

* A user account is created.

****Test Data:****

* Scenarios depicting violations of different community guideline sections (e.g., harassment, impersonation, spam).

****Test Steps:****

1. Log in using the created user account.
2. Conduct actions in each scenario that violate specific community guidelines.
3. Observe the platform's response in each scenario.
4. Note any inconsistencies or missing enforcement actions.

****Postconditions:****

*

****Expected Result:**** The platform responds consistently to violations of community guidelines with appropriate actions (warnings, temporary suspension, permanent ban, etc.) in every scenario tested.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive/Negative

Data - 18

Project name -

Social Media Platform

Project description -

Develop a comprehensive social media platform where users can create profiles, connect with friends, share posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending topics and communities. The platform should include features like news feed, messaging, user profiles, privacy settings, notifications, and analytics.

Feature name -

Multi-Language Support

Feature description -

Multi-language support allows the platform to cater to users from diverse linguistic backgrounds by offering interface localization and content translation features. Users can select their preferred language for the interface, and posts or messages can be translated into different languages, enhancing accessibility and user experience across global audiences.

Userstory title -

As a user, I want multi-language support so that I can use the platform in my preferred language.

Acceptance criteria -

['Users can select their preferred interface language.', 'The platform offers content translation features.', 'Posts and messages can be translated into different languages.', 'Language preferences are saved and applied consistently.', 'The platform supports a wide range of languages.']

Generated Test Cases:

Here are 5 detailed test cases for the "Multi-Language Support" feature, following your template:

Test Case 1

* **Test Case ID:** TC_ML_01

* **Test Case Title:** Verify that users can select their preferred interface language.

* **Test Case Description:** This test case verifies that users are able to change the language of the platform's interface from the user settings and that the change is reflected across all platform pages.

* **Test Suite:** User Interface (UI) Testing

* **Test Priority:** High

* **Preconditions:**

- * User is registered on the platform.

- * User has access to platform settings.

* **Test Data:** List of supported languages

* **Test Steps:**

1. Log in to the platform.

2. Navigate to user profile settings.

3. Select a supported language from the available options.

4. Verify that the platform interface changes language accordingly.

5. Navigate to different sections of the platform (news feed, profile, messaging).

6. Confirm that the language change is reflected across all sections.

* **Postconditions:** Platform language setting should remain changed.

* **Expected Result:** The platform interface successfully changes to the selected language.

Test Case 2

* **Test Case ID:** TC_ML_02

* **Test Case Title:** Verify that content translation features are available.

* **Test Case Description:** This test case verifies that translated content is displayed correctly for both posts and messages when language preference settings are configured.

* **Test Suite:** Functionality Testing

* **Test Priority:** High

* **Preconditions:**

- * User is logged in to the platform.

- * User has selected a language preference different than the platform's default language.

* **Test Data:**

- * A post with text content in a language different from the user's selected preference.
- * A direct message in a language different from the user's selected preference.

* **Test Steps:**

1. Find a post with text originally written in a language different from the user's selected preference.
2. Verify that the post text is translated correctly into the user's selected language.
3. Send a direct message to another user in a language different than the user's selected preference.
4. Open the received message and verify it is translated correctly into the user's selected language.

* **Postconditions:** Languages should revert to original states.

* **Expected Result:** translated content is displayed accurately and is understandable to the user.

Test Case 3

* **Test Case ID:** TC_ML_03

* **Test Case Title:** Verify that language preferences are saved and applied consistently.

* **Test Case Description:** This test case ensures that users' selected language preferences are saved across multiple sessions and platform interactions.

* **Test Suite:** User Experience (UX) Testing

* **Test Priority:** Medium

* **Preconditions:**

- * User is logged in to the platform.
- * User has changed their language preference.

* **Test Data:** N/A

* **Test Steps:**

1. Log out of the platform.
2. Log back into the platform using the same account.
3. Verify that the platform interface is displayed in the previously selected language.

4. Navigate to a different browser or device and log back in.

5. Confirm that the platform interface displays the previously saved language.

* **Postconditions:** User language preference remains unchanged.

* **Expected Result:** Language preference is persistently saved and applied across all sessions and devices.

Test Case 4

* **Test Case ID:** TC_ML_04

* **Test Case Title:** Verify the platform supports a wide range of languages.

* **Test Case Description:** This test case ensures the platform offers a sufficient number of language options to cater to a global user base.

* **Test Suite:** Functional Testing

* **Test Priority:** Medium

* **Preconditions:**

- * User is logged in to the platform.

- * User has access to the language selection settings.

* **Test Data:** List of target languages to be supported.

* **Test Steps:**

1. Navigate to user profile settings.

2. Select each target language from the available options.

3. Verify that the platform interface successfully changes to the selected language.

* **Postconditions:** Platform language settings should revert to default.

* **Expected Result:** The platform offers a comprehensive list of supported languages.

Test Case 5

* **Test Case ID:** TC_ML_05

* **Test Case Title:** Verify handling of unsupported languages.

* **Test Case Description:** This test case verifies the platform's behavior when a user attempts to select an unsupported language.

* **Test Suite:** Error Handling Testing

* **Test Priority:** Low

* **Preconditions:**

- * User is logged in to the platform.

* **Test Data:** A language not supported by the platform.

* **Test Steps:**

1. Navigate to user profile settings.
2. Select the unsupported language from the available options.
3. Observe the platform's response.

* **Postconditions:** Platform language should revert to default.

* **Expected Result:** The platform displays an appropriate message indicating that the selected language is not supported, and it defaults to the default language setting.

Remember to adapt these test cases to your specific implementation and testing environment.

Data - 19

Project name -

Social Media Platform

Project description -

Develop a comprehensive social media platform where users can create profiles, connect with friends, share posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending topics and communities. The platform should include features like news feed, messaging, user profiles, privacy settings, notifications, and analytics.

Feature name -

Cross-Platform Integration

Feature description -

Cross-platform integration allows users to connect and share content across different social media platforms and external services. This includes features like single sign-on (SSO) capabilities, cross-posting of content, integration with external media sources, and the ability to share platform content on other social networks, enhancing user convenience and content reach.

Userstory title -

As a user, I want cross-platform integration so that I can connect and share content across multiple platforms.

Acceptance criteria -

['Users can link their accounts with other social media platforms.', 'Content can be cross-posted to other platforms.', 'Users can sign in using single sign-on (SSO).', 'Integration with external media sources is available.', 'Content sharing across platforms is seamless.']

Generated Test Cases:

Test Cases for Cross-Platform Integration Feature

****Test Case ID:**** TC_CPI_001

****Test Case Title:**** Verify that users can link their accounts with other social media platforms.

****Test Case Description:**** This test case verifies the functionality of linking user accounts with supported social media platforms. It will cover successful linking, the ability to disconnect accounts, and error handling

for invalid credentials or unsupported platforms.

****Test Suite:**** Cross-Platform Integration

****Test Priority:**** High

****Preconditions:****

- * A valid user account is created on the social media platform.

- * Access to supported social media platforms is available (e.g., Facebook, Twitter, Google).

****Test Data:**** User account details for the social media platforms to be tested.

****Test Steps:****

1. Navigate to the user profile settings.
2. Locate the "Connect Accounts" section.
3. Select the desired social media platform (e.g., Facebook).
4. Enter the login credentials for the selected platform.
5. Authorize the application to access user data on the selected platform.

****Postconditions:****

- * User account should be successfully linked to the chosen platform.
- * Option to disconnect the linked account should be available in the settings.
- * Error message should display for invalid credentials or unsupported platforms.

****Expected Result:**** Successful linking of the user account with the selected social media platform accompanied by appropriate notifications.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing, Acceptance Testing**

****Test Case Approach:** Positive, Negative**

****Test Case ID:** TC_CPI_002**

****Test Case Title:** Verify that content can be cross-posted to other platforms.**

****Test Case Description:** This test case verifies the functionality of cross-posting content (posts, photos, videos) to other supported platforms.**

****Test Suite:** Cross-Platform Integration**

****Test Priority:** High**

****Preconditions:****

* User account is successfully linked with at least one supported platform (e.g., Facebook, Twitter).

* User has created content on the social media platform (e.g., text post, photo, video).

****Test Data:** Sample content created on the platform (text, image, video).**

****Test Steps:****

1. Create a new post, photo, or video on the platform.
2. During content creation, select the option to cross-post to linked platforms.
3. Choose the desired platform for cross-posting (e.g., Facebook).
4. Verify the content is successfully posted on the selected platform.

****Postconditions:****

- * Content appears on the linked platform with appropriate formatting and information (user name, platform name, timestamp).
- * Option to remove cross-posted content should be available on both platforms.
- * Error message should display if cross-posting to a specific platform fails (e.g., due to network issues).

****Expected Result:**** Successful cross-posting of the content to the chosen platform.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_CPI_003

****Test Case Title:**** Verify that users can sign in using single sign-on (SSO).

****Test Case Description:**** This test case verifies the ability to sign into the platform using SSO credentials from supported platforms (e.g., Google, Facebook).

****Test Suite:**** Cross-Platform Integration

****Test Priority:**** High

****Preconditions:****

* User has a valid account on a supported platform (e.g., Google).

* SSO functionality is enabled for the selected platform.

****Test Data:**** User account details for the supported platform.

****Test Steps:****

1. Navigate to the login page.
2. Click on the SSO button for the chosen platform (e.g., Google).
3. Authorize the application to access user data on the selected platform.
4. Verify that the user is automatically logged into the platform using their SSO credentials.

****Postconditions:****

- * User should be successfully logged into the platform.
- * Option to disconnect SSO account should be available in the settings.
- * Error message should display if SSO authentication fails (e.g., due to invalid credentials).

****Expected Result:**** Successful SSO login into the platform using the chosen platform's credentials.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Acceptance Testing

****Test Case Approach:**** Positive, Negative

****Test Case ID:**** TC_CPI_004

****Test Case Title:**** Verify integration with external media sources.

****Test Case Description:**** This test case verifies the ability to embed and display content from external media sources (e.g., YouTube, Instagram) directly within the platform's environment.

****Test Suite:**** Cross-Platform Integration

****Test Priority:**** Medium

****Preconditions:****

* User account is created and logged in.

* Access to external media source is available (e.g., YouTube embedded video).

****Test Data:**** Links to external media content.

****Test Steps:****

1. Navigate to the content creation area (e.g., posting area).

2. Paste a link to an external media source (e.g., YouTube video).

3. Verify that the platform successfully embeds the media content (video player, image, etc.).

****Postconditions:****

* Embedded content should display correctly and be playable/viewable.

* User should be able to interact with the embedded content (e.g., play/pause, volume control).

****Expected Result:**** Successful embedding and display of external media content within the platform.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_CPI_005

****Test Case Title:**** Verify seamless content sharing across platforms.

****Test Case Description:**** This test case verifies the user experience for sharing platform content to other platforms, with a focus on ease of use and correct sharing details.

****Test Suite:**** Cross-Platform Integration

****Test Priority:**** High

****Preconditions:****

* User account is created and logged in.

* User has created content on the platform (text post or photo).

****Test Data:****

****Test Steps:****

1. Create a post or photo.
2. Navigate to the share options for the created content.
3. Select a supported platform to share to (e.g., Twitter).
4. Verify that the shared content appears on the selected platform with the correct user details and platform source information.

****Postconditions:****

- * Shared content should appear on the target platform without any significant data loss or formatting issues.
- * User's platform profile should be correctly linked to the shared content.

****Expected Result:**** Seamless sharing of platform content to the chosen platform with accurate and complete information.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Acceptance Testing

****Test Case Approach:**** Positive

Data - 20

Project name -

Social Media Platform

Project description -

Develop a comprehensive social media platform where users can create profiles, connect with friends, share posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending topics and communities. The platform should include features like news feed, messaging, user profiles, privacy settings, notifications, and analytics.

Feature name -

Gamification and Rewards

Feature description -

Gamification and rewards enhance user engagement by incorporating game-like elements such as points, badges, leaderboards, and challenges. Users can earn rewards for their activities, achievements, and contributions on the platform, fostering a sense of accomplishment and encouraging continued interaction and participation.

Userstory title -

As a user, I want gamification and rewards so that I can earn recognition and incentives for my activities.

Acceptance criteria -

['Users can earn points and badges for their activities.', 'Leaderboards display top users based on points or

achievements.', 'Challenges are available for users to complete and earn rewards.', 'Rewards can include virtual goods, discounts, or exclusive content.', 'Users can view their progress and achievements in a dedicated section.']

Generated Test Cases:

Social Media Platform - Gamification and Rewards Test Cases

****Test Case ID:** TC-GAM-001**

****Test Case Title:** Verify that users can earn points for posting content.**

****Test Case Description:** This test case verifies that users earn points for creating new posts on the platform, covering various content types.**

****Test Suite:** Gamification Feature**

****Test Priority:** High**

****Preconditions:****

* User has successfully logged in to the platform.

* User has an active profile.

****Test Data:** Sample post content (text, photo, video)**

****Test Steps:****

1. Navigate to the "Create Post" section.
2. Compose a new post with appropriate content (text, photo, or video).
3. Publish the post.
4. Navigate to the user's profile.
5. Verify the user's point balance has increased by the predefined amount for posting.

****Postconditions:****

* No exceptional errors should occur during post creation or point update.

****Expected Result:**** User's point balance increases by the predetermined amount for posting content.

****Severity:**** Moderate

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC-GAM-002

****Test Case Title:**** Verify that users can earn badges for achieving milestones.

****Test Case Description:**** This test case verifies that users are awarded badges based on specific achievements, such as posting a certain number of times or gaining a specific number of followers.

****Test Suite:**** Gamification Feature

****Test Priority:**** Medium

****Preconditions:****

* User has successfully logged in to the platform.

****Test Data:**** No test data needed

****Test Steps:****

1. Perform activities on the platform that contribute to achieving a specific milestone (e.g., posting 10 times, gaining 50 followers).
2. Verify that a corresponding badge is awarded to the user in their profile section or dedicated achievements area.

****Postconditions:****

* Badge should be displayed correctly

****Expected Result:**** User receives the designated badge upon achieving the pre-defined milestone.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC-GAM-003**

****Test Case Title:** Verify that the leaderboards display users based on points or achievements.**

****Test Case Description:** This test case verifies the functionality of leaderboards, checking if they accurately display users ranked based on points or achievements.**

****Test Suite:** Gamification Feature**

****Test Priority:** High**

****Preconditions:****

* User has successfully logged in to the platform.

****Test Data:** Two or more users with varied points or achievements.**

****Test Steps:****

1. Navigate to the leaderboards section.
2. Verify that the leaderboards are sorted correctly based on either points or achievements (choose either for this test case).
3. Check that users are displayed in descending order of points or achievements.

****Postconditions:****

* No leading users should be displayed in the wrong ranking.

****Expected Result:**** The leaderboards accurately depict users sorted by points or achievements.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC-GAM-004

****Test Case Title:**** Verify that users can participate in challenges and earn rewards.

****Test Case Description:**** This test case validates the challenge feature, ensuring users can participate and receive rewards for successful completion.

****Test Suite:**** Gamification Feature

****Test Priority:**** Medium

****Preconditions:****

- * User has successfully logged in to the platform.
- * A valid challenge is available for participation.

****Test Data:**** Sample challenge details (description, tasks, reward type)

****Test Steps:****

1. Locate an active challenge on the platform.
2. Understand the challenge description and tasks.
3. Complete all tasks required by the challenge.
4. Verify the user receives the promised reward.

****Postconditions:****

- * Challenge completion status should be updated correctly for the user.

* Reward should be reflected in the user's profile/inventory.

****Expected Result:**** User successfully completes the challenge and earns the specified reward.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC-GAM-005

****Test Case Title:**** Verify that users can view their progress and achievements.

****Test Case Description:**** This test case tests the functionality of the section where users can track their gamification progress and view their earned achievements.

****Test Suite:**** Gamification Feature

****Test Priority:**** Medium

****Preconditions:****

* User has successfully logged in to the platform.

****Test Data:**** Sample achievements earned by the user.

****Test Steps:****

1. Navigate to the user's profile section or dedicated achievements area.
2. Verify that all earned badges are displayed.
3. Check that progress towards milestones or future achievements is accurately shown.

****Postconditions:****

* User information should be up-to-date.

****Expected Result:**** The platform clearly displays user's earned badges, progress towards achievements, and overall gamification progress.

****Severity:**** Minor

****Priority:**** Low

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Data - 21

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Creation

Feature description -

Users can create tasks by providing detailed information such as the task title, description, due date, priority level, and assigning it to specific team members. This feature serves as the foundation for organizing and managing tasks within the tool.

Userstory title -

As a user, I want to create tasks so that I can organize and manage my work effectively.

Acceptance criteria -

['Users can enter a task title, description, due date, and priority level.', 'Tasks can be assigned to specific team members.', 'The system should save and display created tasks.', 'Users can edit task details after creation.', 'The system should validate required fields (e.g., task title).']

Generated Test Cases:

Test Cases for Task Creation Feature

****Test Case ID:**** TC_TASK_CREATE_01

****Test Case Title:**** Verify that the system allows entering a task title.

****Test Case Description:**** This test case validates the functionality of entering a task title and checks if the system allows empty titles.

****Test Suite:**** Feature Testing - Task Management Tool

****Test Priority:**** High

****Preconditions:****

* User is logged in to the Task Management Tool.

* User navigates to the "Create Task" page.

****Test Data:****

* Valid Task Titles: "Meeting with Client", "Complete Project Report"

* Invalid Task Titles: "" (empty string)

****Test Steps:****

1. Navigate to the "Create Task" page.
2. Enter a valid task title in the designated field.
3. Click the "Create Task" button.
4. Verify that the task is successfully created and displayed.
5. Repeat steps 1-4 with an empty string as the task title.

****Postconditions:****

* Task with valid title is displayed in the task list.

****Expected Result:****

* Task with valid title is created successfully.

* An error message is displayed for the invalid task (empty title) indicating the required field is missing.

****Severity:** Critical**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive and Negative**

****Test Case ID:** TC_TASK_CREATE_02**

****Test Case Title:** Verify that the system allows entering a task description.**

****Test Case Description:**** This test case validates the functionality of entering a task description and checks for maximum length restriction if any.

****Test Suite:**** Feature Testing - Task Management Tool

****Test Priority:**** High

****Preconditions:****

* User is logged in to the Task Management Tool.

* User navigates to the "Create Task" page.

****Test Data:****

* Valid Task Description: "Discuss project timeline and deliverables."

* Invalid Task Description: Exceeding the maximum length limit (if applicable)

****Test Steps:****

1. Navigate to the "Create Task" page.
2. Enter a valid task description in the designated field.
3. Click the "Create Task" button.
4. Verify that the task is successfully created and displays the entered description.
5. Repeat steps 1-4 with an invalid task description exceeding the maximum length (if applicable).

****Postconditions:****

* Task with valid description is displayed in the task list.

****Expected Result:****

- * Task with valid description is created successfully.
- * An error message is displayed for the invalid task description exceeding the maximum length limit (if applicable).

****Severity:**** Critical

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive and Negative

****Test Case ID:**** TC_TASK_CREATE_03

****Test Case Title:**** Verify that the system allows setting a task due date.

****Test Case Description:**** This test case validates the functionality of setting a task due date and ensures the system handles future, past, and present dates correctly.

****Test Suite:**** Feature Testing - Task Management Tool

****Test Priority:**** High

****Preconditions:****

- * User is logged in to the Task Management Tool.
- * User navigates to the "Create Task" page.

****Test Data:****

* Future Date: "2024-03-15"

* Past Date: "2023-01-01"

* Present Date: "2023-10-26"

****Test Steps:****

1. Navigate to the "Create Task" page
2. Enter a future date in the "Due Date" field.
3. Click the "Create Task" button.
4. Verify that the task is created successfully with the future due date.
5. Repeat steps 1-4 with a past date as the due date.
6. Repeat steps 1-4 with the present date.

****Postconditions:****

- * Task with valid due date (future, past, present) is displayed in the task list.

****Expected Result:****

- * Task is created successfully for all valid due dates.
- * An error message is displayed if an invalid date format is entered.

****Severity:** Critical**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_TASK_CREATE_04**

****Test Case Title:** Verify that the system allows assigning a task to a specific team member.**

****Test Case Description:**** This test case validates the functionality of assigning tasks to team members and ensures the system handles invalid team member selections appropriately.

****Test Suite:**** Feature Testing - Task Management Tool

****Test Priority:**** High

****Preconditions:****

* User is logged in to the Task Management Tool.

* User navigates to the "Create Task" page.

* A list of available team members is present in the dropdown menu.

****Test Data:****

* Valid Team Member: "John Doe"

* Invalid Team Member: "Nonexistent User"

****Test Steps:****

1. Navigate to the "Create Task" page.
2. Select a valid team member from the dropdown menu.
3. Click the "Create Task" button.
4. Verify that the task is created successfully and is assigned to the selected team member.
5. Select an invalid team member from the dropdown menu.
6. Click the "Create task" button.

****Postconditions:****

* Task is displayed with the assigned team member.

****Expected Result:****

* Task is successfully created and assigned to the valid team member.

* An error message is displayed if an invalid team member is selected.

****Severity:** Critical**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive and Negative**

****Test Case ID:** TC_TASK_CREATE_05**

****Test Case Title:** Verify that the system allows editing task details after creation.**

****Test Case Description:** This test case ensures the user can modify task title, description, due date, and assignee after task creation.**

****Test Suite:** Feature Testing - Task Management Tool**

****Test Priority:** High**

****Preconditions:****

* User is logged in to the Task Management Tool.

* A task has been successfully created.

****Test Data:****

* Updated Task Title: "Revised Meeting with Client"

* Updated Task Description: "Discuss revised project timeline and deliverables."

* Updated Due Date: "2024-03-20"

* Updated Assignee: "Jane Doe"

****Test Steps:****

1. Navigate to the task list and locate the previously created task.
2. Click on the task to open its details.
3. Modify the task title, description, due date, and assignee with the updated data.
4. Save the changes.
5. Verify that the task details have been successfully updated.

****Postconditions:****

* Updated task is displayed in the task list with the latest information.

****Expected Result:****

* All task details are successfully modified and reflect the updated values.

****Severity:** Critical**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Data - 22

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Assignment

Feature description -

Tasks can be assigned to specific team members, delegating responsibility and ensuring clarity about who is accountable for each task. Assignees receive notifications about their assigned tasks, helping them stay informed and focused on their responsibilities.

Userstory title -

As a user, I want to assign tasks to specific team members so that responsibilities are clear and tasks are managed effectively.

Acceptance criteria -

['Users can select team members to assign tasks.', 'Assignees receive notifications about their tasks.', 'The system should display assigned tasks in the assignee's task list.', 'Users can reassign tasks to different team members.', 'Task assignment history should be tracked.']

Generated Test Cases:

Task Assignment Test Cases for Task Management Tool

****Test Case ID:**** TC_001

****Test Case Title:**** Verify that users can select team members to assign tasks.

****Test Case Description:**** This test case verifies that users can successfully select team members from a list to assign tasks to them. It will cover scenarios where a task is assigned to a specific user and where a task is unassigned.

****Test Suite:**** Task Management

****Test Priority:**** High

****Preconditions:****

* A user is logged in to the Task Management Tool.

* A list of team members is available in the system.

* At least one task exists.

****Test Data:****

* Existing team members' user information (name, email, etc.)

* Task details (title, description, due date)

****Test Steps:****

1. Navigate to the task list view.

2. Select a task.

3. Click on the "Assign" button.

4. From the dropdown list of available team members, select a specific team member.

5. Verify that the selected team member's name is displayed as the assignee for the task.

6. Repeat steps 3-5 unassigning the task to clear the assignee.

****Postconditions:****

* The task is initially unassigned.

* The team member selection dropdown list is functioning correctly.

****Expected Result:**** The selected team member is correctly assigned to the task. Users can successfully assign and un-assign tasks to team members.

****Severity:**** Critical

****Type of Testing:**** Functional Testing

****Test Case ID:**** TC_002

****Test Case Title:**** Verify that assignees receive notifications about their tasks.

****Test Case Description:**** This test case validates that assignees receive notifications when a task is assigned to them. It will involve simulating task assignments and checking for the expected notification delivery.

****Test Suite:**** Task Management

****Test Priority:**** High

****Preconditions:****

* A user is logged in to the Task Management Tool.

* A notification system is configured and functional.

* At least one task exists.

* A test email account is prepared to receive notifications.

****Test Data:****

* Email address of a test user (assignee) and a different email address (user assigning)

****Test Steps:****

1. Log in as a user with the designated test email address.
2. Have another user log in and assign a task to the test user.
3. Verify that the test user receives a notification email regarding the assigned task.
4. Check that the notification email contains relevant task details (title, description, due date, assignee).

****Postconditions:****

- * The test user has received a notification.
- * The notification email contains the expected information.

****Expected Result:**** The assignee receives a notification email with the relevant task details upon assignment.

****Severity:**** Critical

****Type of Testing:**** Functional Testing

****Test Case ID:**** TC_003

****Test Case Title:**** Verify that the system displays assigned tasks in the assignee's task list.

****Test Case Description:**** This test case ensures that assigned tasks are correctly displayed in the task list for the respective assignees.

****Test Suite:**** Task Management

****Test Priority:**** High

****Preconditions:****

- * Users are logged in to the Task Management Tool.
- * Tasks have been assigned to specific team members.

****Test Data:****

- * Users (assignee) with assigned tasks.

****Test Steps:****

1. Log in as a user with assigned tasks.
2. Navigate to their task list.
3. Verify that all assigned tasks are displayed in the list.

****Postconditions:****

- * The user views their task list.
- * The assigned tasks are clearly listed.

****Expected Result:**** All assigned tasks are present in the assignee's task list.

****Severity:**** Major

****Type of Testing:**** Functional Testing

****Test Case ID:**** TC_004

****Test Case Title:**** Verify that users can reassign tasks to different team members.

****Test Case Description:**** This test case confirms the functionality of reassigning tasks from one team member to another.

****Test Suite:**** Task Management

****Test Priority:**** High

****Preconditions:****

- * A task is already assigned to a specific team member.
- * Users are logged in to the Task Management Tool.

****Test Data:****

- * Existing task
- * Two different team members

****Test Steps:****

1. Log in as the user who originally assigned the task.
2. Locate the task and open its details.
3. Click on the "Reassign" button.
4. From the dropdown list, select a different team member.
5. Verify that the task is successfully reassigned to the new team member.

****Postconditions:****

- * The original assignee is no longer listed as the task owner.
- * The new assignee sees the task in their task list.

****Expected Result:**** The task is efficiently reassigned from one team member to another.

****Severity:**** Major

****Type of Testing:**** Functional Testing

****Test Case ID:**** TC_005

****Test Case Title:**** Verify that task assignment history is tracked.

****Test Case Description:**** This test case tests whether the system records and displays the history of task assignments.

****Test Suite:**** Task Management

****Test Priority:**** Medium

****Preconditions:****

- * A user is logged into the Task Management Tool.
- * A task exists and has been assigned and reassigned multiple times.

****Test Data:****

- * Task with a history of assignments

****Test Steps:****

1. Navigate to the task details page.
2. Locate the "Assignment History" section (if available) or confirm the history within the general task details.
3. Verify that the history accurately reflects all previous assignments of the task, including the date and time and the names of the assignees.

****Postconditions:****

- * The task history section is available and accessible.
- * The historical data is displayed correctly.

****Expected Result:**** The task assignment history is tracked and displayed accurately, providing a clear record of task ownership changes.

****Severity:**** Minor

****Type of Testing:**** Functional Testing

Data - 23

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Deadline Reminders

Feature description -

Users receive reminders and notifications for upcoming task deadlines, ensuring that tasks are completed on time and preventing delays. Reminders can be customized based on users' preferences and urgency levels.

Userstory title -

As a user, I want to receive reminders for upcoming task deadlines so that I can complete tasks on time.

Acceptance criteria -

['Users can set reminders for tasks based on deadlines.', 'Reminders can be customized by urgency level.', 'The system sends notifications for upcoming deadlines.', 'Users can choose the delivery method for reminders (e.g., email, in-app).', 'Reminder settings can be adjusted or disabled.']

Generated Test Cases:

Test Cases for Task Deadline Reminders Feature

Test Case ID: TMT-RD-001

****Test Case Title:**** Verify that users can set reminders for tasks based on deadlines.

****Test Case Description:**** This test case verifies the functionality of setting task deadlines and associated reminders. It will confirm that users can input a specific deadline for a task and that the system generates reminders based on that input.

****Test Suite:**** Task Management Tool - Features

****Test Priority:**** High

****Preconditions:****

* A user account is logged in.

* A new task is created.

****Test Data:****

* Valid Date and Time for Task Deadline

****Test Steps:****

1. Navigate to the task creation page.
2. Enter a description for the task.
3. Set a specific date and time for the task deadline.
4. Save the task.
5. Verify that a reminder is scheduled for the specified deadline.

****Postconditions:****

* The task remains in the system.

* The reminder should be reflected in the task's details.

****Expected Result:**** The system correctly sets a reminder for the specified task deadline.

****Severity:**** Critical

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case ID:** TMT-RD-002**

****Test Case Title:** Verify that reminders can be customized by urgency level.**

****Test Case Description:** This test case verifies the ability to customize reminder urgency levels for tasks. It will confirm that different urgency levels result in corresponding reminder notification styles and frequencies.**

****Test Suite:** Task Management Tool - Features**

****Test Priority:** High**

****Preconditions:****

* User is logged in.

* A task with a set deadline exists.

****Test Data:****

* Different urgency levels (e.g., High, Medium, Low)

****Test Steps:****

1. Open the task with the set deadline.
2. Navigate to the reminder settings section.
3. Select different urgency levels for the task reminder.
4. Verify the system reflects the chosen urgency level in the notification settings.

****Postconditions:****

* The task remains in the system.

* The chosen urgency level is reflected in the reminder settings.

****Expected Result:**** The system correctly applies the chosen urgency level, adjusting reminder frequency and notification style accordingly.

****Severity:**** High

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case ID:**** TMT-RD-003

****Test Case Title:**** Verify that the system sends notifications for upcoming deadlines.

****Test Case Description:**** This test case verifies if notifications are sent out for upcoming task deadlines. It will confirm that the system sends notifications at the designated time leading up to the deadline.

****Test Suite:**** Task Management Tool - Features

****Test Priority:**** High

****Preconditions:****

* User is logged in.

* A task with a set deadline exists.

* User has chosen a reminder delivery method.

****Test Data:****

* An upcoming deadline for a test task.

****Test Steps:****

1. Set a task deadline within a timeframe for testing (e.g., 24 hours in the future).
2. Ensure the user's notifications are enabled for the chosen reminder delivery method (e.g., email, app)

notifications).

3. Observe if a timely notification is received for the upcoming deadline.

****Postconditions:****

* The notification is received within the expected timeframe.

* The task remains in the system.

****Expected Result:**** The user receives a notification for an upcoming deadline within the configured timeframe.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case ID:**** TMT-RD-004

****Test Case Title:**** Verify that users can choose the delivery method for reminders (Email, In-App).

****Test Case Description:**** This test case verifies the ability for users to select their preferred reminder delivery method.

****Test Suite:**** Task Management Tool - Features

****Test Priority:**** Medium

****Preconditions:****

* User account is logged in.

****Test Data:****

* Email address associated with the user account.

* In-app notification settings (if applicable to your platform).

****Test Steps:****

1. Access the task reminder settings.
2. Select "Email" as the primary reminder delivery method.
3. Verify a test reminder is sent to the user's email address upon a task deadline approaching.
4. Repeat steps 1-3, selecting "In-app notification" as the delivery method.
5. Verify a reminder notification appears within the app upon a task deadline approaching.

****Postconditions:****

- * The user's chosen delivery method remains selected.

****Expected Result:**** The system successfully sends reminders through the user's selected delivery method (email or in-app notifications).

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case ID:**** TMT-RD-005

****Test Case Title:**** Verify that reminder settings can be adjusted or disabled.

****Test Case Description:**** This test case verifies the ability to modify reminder settings and disable them altogether.

****Test Suite:**** Task Management Tool - Features

****Test Priority:**** Medium

****Preconditions:****

- * User is logged in.

* A task with a set deadline and reminders enabled exists.

****Test Data:****

* Different reminder frequencies.

****Test Steps:****

1. Open the task with reminder settings.
2. Adjust the reminder frequency (e.g., change from daily to hourly).
3. Verify the reminder settings have been updated.
4. Disable reminders for the task.
5. Verify that no reminders are scheduled or sent for this task.
6. Re-enable reminders and set a new frequency.
7. Verify that reminders are scheduled and sent at the new frequency.

****Postconditions:****

* The task remains in the system.

****Expected Result:**** The user can successfully adjust reminder settings and disable reminders for tasks.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Prioritization

Feature description -

Users can prioritize tasks based on their urgency and importance, allowing them to focus on high-priority tasks and manage their workload effectively. Tasks can be categorized into different priority levels, such as high, medium, or low, based on their importance to the project or team.

Userstory title -

As a user, I want to prioritize tasks so that I can manage my workload effectively.

Acceptance criteria -

['Users can set priority levels for tasks (High, Medium, Low).', 'Tasks can be sorted based on priority levels.', 'Users can change the priority level of a task.', 'The system visually distinguishes tasks based on priority.', 'Tasks without a specified priority default to Medium.']

Generated Test Cases:

Test Cases for Task Prioritization Feature

****Project Context:**** Task Management Tool

****User Story:**** As a user, I want to prioritize tasks so that I can manage my workload effectively.

****Test Case 1:**** Verify that users can set priority levels for tasks

****Test Case Description:**** This test case verifies the functionality of setting different priority levels for tasks.

*** **Test Suite:**** Task Management

*** **Test Priority:**** High

*** **Preconditions:****

- * A logged-in user is accessing the task management tool.

- * The user has access to create new tasks.

*** **Test Data:**** "Test Task"

*** **Test Steps:****

1. Create a new task titled "Test Task".
2. Navigate to task details.
3. Select "High" priority level from the priority dropdown menu.
4. Save the task.

*** **Postconditions:****

- * The task "Test Task" should be saved.

*** **Expected Result:****

The task "Test Task" should be displayed with "High" priority level applied.

****Severity:**** Blocker

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case 2:**** Verify that tasks can be sorted based on priority levels

****Test Case Description:**** This test case confirms that tasks can be sorted correctly by priority level (High, Medium, Low).

*** **Test Suite:**** Task Management

*** **Test Priority:**** High

*** **Preconditions:****

- * A logged-in user is accessing the task management tool.

- * Multiple tasks are created with different priority levels (High, Medium, Low).

*** **Test Data:**** Existing tasks with varying priority levels

*** **Test Steps:****

1. Open the task list view.
2. Sort the task list by priority (ascending or descending).
3. Verify that tasks are arranged correctly based on the selected priority order.

*** **Postconditions:**** No specific follow-up actions

*** **Expected Result:**** Tasks should be sorted accurately by priority level in the selected order.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case 3:**** Verify that users can change the priority level of a task

****Test Case Description:**** This test case ensures users can modify the existing priority level of a task.

*** **Test Suite:**** Task Management

* **Test Priority:** High

* **Preconditions:**

- * A logged-in user is accessing the task management tool.

- * A task with an initial priority level (e.g., Medium) exists.

* **Test Data:** Existing task with priority set to Medium

* **Test Steps:**

1. Open the details of the task with priority "Medium".

2. Change the priority level to "High".

3. Save the changes.

* **Postconditions:**

- * The task details are updated.

* **Expected Result:** The task priority should be successfully changed to "High".

Severity: Critical

Priority: High

Type of Testing: Functional Testing

Test Case Approach: Positive

Test Case 4: Verify that the system visually distinguishes tasks based on priority

Test Case Description: This test case checks the visual presentation of tasks with different priority levels.

* **Test Suite:** Task Management

* **Test Priority:** Medium

* **Preconditions:**

- * A logged-in user is accessing the task management tool.

- * Tasks exist with different priority levels (High, Medium, Low).

* **Test Data:** Existing tasks with different priority levels

* **Test Steps:**

1. View the task list or relevant sections (e.g., Today's tasks).
2. Identify and compare the visual cues used to differentiate tasks of High, Medium, and Low priority (e.g., color-coding, icons, font styles).

* **Postconditions:** No specific follow-up actions.

* **Expected Result:** Tasks should be visually distinguishable based on their assigned priority levels. The system should use clear and distinct visual cues.

Severity: Major

Priority: Medium

Type of Testing: Functional Testing, Usability Testing

Test Case Approach: Positive

Test Case 5: Verify that tasks without a specified priority default to Medium

Test Case Description: This test case confirms that tasks without explicitly assigned priority levels default to Medium.

* **Test Suite:** Task Management

* **Test Priority:** Medium

* **Preconditions:**

* A logged-in user is accessing the task management tool.

* **Test Data:** A new task without a specified priority level

* **Test Steps:**

1. Create a new task. Do not assign a priority level.
2. Save the task.

* **Postconditions:** The task is saved.

* **Expected Result:** The task should be listed with a default priority level of "Medium".

Data - 25

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Subtasks

Feature description -

Tasks can be broken down into smaller subtasks, enabling users to divide complex tasks into manageable components. Subtasks can have their own due dates, assignees, and dependencies, providing granularity and clarity in task execution.

Userstory title -

As a user, I want to create subtasks so that I can break down complex tasks into manageable parts.

Acceptance criteria -

['Users can create subtasks under main tasks.', 'Subtasks can have their own due dates and assignees.', 'The system tracks the progress of each subtask.', 'Subtasks can be marked as complete independently of the main

task.', 'Dependencies between subtasks can be set.']

Generated Test Cases:

Test Cases for Subtasks Feature in Task Management Tool

Here are 5 test cases designed for the "Subtasks" feature of the Task Management Tool, based on the provided User Story and Acceptance Criteria:

Test Case 1:

* **Test Case ID:** TC_SUBTASK_001

* **Test Case Title:** Verify that a user can create subtasks under a main task.

* **Test Case Description:** This test case ensures that users can successfully add subtasks as child tasks to an existing main task.

* **Test Suite:** Task Management - Subtasks

* **Test Priority:** High

* **Preconditions:**

- * A user with appropriate permissions is logged in.

- * A main task exists in the system.

* **Test Data:**

- * Description for the new subtask.

- * Due date for the new subtask.

- * Assignees for the new subtask.

* **Test Steps:**

1. Navigate to the main task.

2. Click the "Add Subtask" button.

3. Enter a description for the subtask.

4. Set a due date for the subtask.

5. Assign the subtask to a user.

6. Save the subtask.

* **Postconditions:**

* The subtask is listed as a subtask under the main task.

* **Expected Result:** The subtask is successfully created and displayed as a child task of the main task.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 2:

* **Test Case ID:** TC_SUBTASK_002

* **Test Case Title:** Verify that subtasks can have their own due dates and assignees.

* **Test Case Description:** This test case verifies that subtasks can be assigned individual due dates and assignees, independent of the main task.

* **Test Suite:** Task Management - Subtasks

* **Test Priority:** High

* **Preconditions:** Same as Test Case 1

* **Test Data:**

* Different due date for the subtask compared to the main task.

* Different assignee for the subtask compared to the main task.

* **Test Steps:**

1. Navigate to the newly created subtask.

2. Modify the due date of the subtask.

3. Assign a different user to the subtask.

4. Save the changes.

* **Postconditions:**

* The updated due date and assignee are reflected for the subtask.

* **Expected Result:** The subtask's due date and assignee are successfully updated independently from the main task.

* **Severity:** Major

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 3:

* **Test Case ID:** TC_SUBTASK_003

* **Test Case Title:** Verify that the system tracks the progress of each subtask.

* **Test Case Description:** This test case ensures that the system accurately reflects the completion status of each subtask.

* **Test Suite:** Task Management - Subtasks

* **Test Priority:** Medium

* **Preconditions:** Same as Test Case 2

* **Test Data:**

* Status update for the subtask (e.g., "In Progress", "Completed").

* **Test Steps:**

1. Navigate to the subtask.

2. Mark the subtask as "In Progress".

3. Later, mark the subtask as "Completed".

4. Verify the updated status in the system.

* **Postconditions:**

* The status of the subtask is reflected in the system.

* **Expected Result:** The system accurately tracks the progress of the subtask and displays the updated status.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing, Regression Testing

* **Test Case Approach:** Positive

Test Case 4:

* **Test Case ID:** TC_SUBTASK_004

* **Test Case Title:** Verify that subtasks can be marked as complete independently of the main task.

* **Test Case Description:** This test case evaluates if a subtask can be marked as complete even if the main task is not yet marked as complete.

* **Test Suite:** Task Management - Subtasks

* **Test Priority:** Medium

* **Preconditions:** Same as Test Case 3

* **Test Data:**

* **Test Steps:**

1. Ensure the main task is not yet marked as complete.
2. Mark a subtask as completed.
3. Verify the subtask's completion status and that it does not affect the main task's status.

* **Postconditions:**

- The main task status remains unchanged.

* **Expected Result:** Marking a subtask as complete does not impact the status of the associated main task.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing, Regression Testing

* **Test Case Approach:** Positive

Test Case 5:

* **Test Case ID:** TC_SUBTASK_005

* **Test Case Title:** Verify that dependencies between subtasks can be set.

* **Test Case Description:** This test case ensures the system allows setting dependencies between subtasks to enforce a logical order of execution.

* **Test Suite:** Task Management - Subtasks

* **Test Priority:** High

* **Preconditions:** Same as Test Case 4

* **Test Data:**

* Different subtasks with a defined dependency order.

* **Test Steps:**

1. Define two subtasks with a dependency relationship.
2. Attempt to mark the dependent subtask as complete before its prerequisite subtask.
3. Observe the system's response to the dependency violation.

* **Postconditions:**

- The system prevents the dependent subtask from being marked as complete until its prerequisite is done.

* **Expected Result:** The system enforces the set dependencies, preventing the completion of dependent subtasks until their prerequisites are fulfilled.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive, Negative

These test cases provide a starting point for verifying the functionality of the Subtasks feature.

Don't forget to consider edge cases and negative scenarios for each acceptance criterion during your testing process!

Data - 26

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Dependencies

Feature description -

Users can define dependencies between tasks, specifying the order in which tasks should be completed to ensure smooth workflow and project progression. Task dependencies help in identifying critical paths and managing interdependencies between tasks.

Userstory title -

As a user, I want to set task dependencies so that tasks are completed in the correct sequence.

Acceptance criteria -

['Users can set dependencies between tasks.', 'The system displays dependencies in the task details.', 'Tasks cannot be marked as complete if dependent tasks are not completed.', 'Users can update or remove dependencies as needed.', 'The system provides alerts or warnings if a dependent task is not completed.']

Generated Test Cases:

Task Management Tool - Test Cases for Task Dependencies

Test Case ID: TC_001

Test Case Title: Verify that users can set dependencies between tasks.

Test Case Description: This test case verifies the ability to establish dependencies between tasks, ensuring that tasks can be linked in a logical sequence.

Test Suite: Task Management Features

Test Priority: High

Preconditions:

- * A user account with full access permissions is logged in.
- * At least two tasks exist within the system.

Test Data: Two tasks with distinct titles and descriptions.

Test Steps:

1. Navigate to the task list view.

2. Select the first task and open its details.
3. Locate the "Dependencies" section within the task details.
4. Click the "Add Dependency" button.
5. Select the second task from the available list as the dependent task.
6. Save the changes.

****Postconditions:****

* The dependency should be reflected in the task details of both tasks.

****Expected Result:**** The system successfully creates a dependency link between the two selected tasks.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** System Testing, Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_002

****Test Case Title:**** Verify that the system displays dependencies in the task details.

****Test Case Description:**** This test case verifies the system's ability to visually represent task dependencies in the task details section.

****Test Suite:**** Task Management Features

****Test Priority:**** Medium

****Preconditions:****

- * A user account with full access permissions is logged in.
- * A dependency between two tasks has been successfully created (as per TC_001).

****Test Data:**** Tasks with established dependencies.

****Test Steps:****

1. Navigate to the task list view.
2. Select the first task from the list.
3. Open the details of the first task.
4. Examine the "Dependencies" section.

****Postconditions:****

- * The dependent tasks should be clearly listed in the "Dependencies" section.

****Expected Result:**** The system displays a list of dependent tasks associated with the selected task in the "Dependencies" section.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** System Testing, Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_003

****Test Case Title:**** Verify that tasks cannot be marked as complete if dependent tasks are not completed.

****Test Case Description:**** This test case validates the system's functionality to prevent tasks from being marked as complete if their dependent tasks remain incomplete.

****Test Suite:**** Task Management Features

****Test Priority:**** High

****Preconditions:****

- * A user account with full access permissions is logged in.
- * A task dependency has been created between two tasks (as per TC_001).
- * The dependent task remains incomplete.

****Test Data:**** Tasks with a dependency relationship.

****Test Steps:****

1. Navigate to the task list view.
2. Select the dependent task.

3. Attempt to mark the dependent task as complete.

****Postconditions:****

* The task should not be marked as complete.

****Expected Result:**** The system prevents the dependent task from being marked complete until all preceding dependent tasks have been marked as complete.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** System Testing, Functional Testing

****Test Case Approach:**** Negative

****Test Case ID:**** TC_004

****Test Case Title:**** Verify that users can update or remove dependencies as needed.

****Test Case Description:**** This test case examines the user's ability to modify or delete existing task dependencies.

****Test Suite:**** Task Management Features

****Test Priority:**** Medium

****Preconditions:****

- * A user account with full access permissions is logged in.
- * A task dependency has been previously created (as per TC_001).

****Test Data:**** Tasks with an established dependency.

****Test Steps:****

1. Navigate to the task list view.
2. Select the task with the existing dependency.
3. Open the task details and locate the "Dependencies" section.
4. Click the "Edit" button next to the existing dependency.
5. Change the dependent task to a different task from the list.
6. Click "Save" to update the dependency.
7. Repeat steps 3-6, but this time select the "Delete" button to remove the dependency.

****Postconditions:****

- * The dependency should be updated with the new task.
- * The dependency should be successfully removed.

****Expected Result:****

The system allows users to modify and delete task dependencies as needed, providing flexibility in managing workflow.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** System Testing, Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_005**

****Test Case Title:** Verify that the system provides alerts or warnings if a dependent task is not completed.**

****Test Case Description:** This test case assesses the system's ability to notify users about incomplete dependent tasks.**

****Test Suite:** Task Management Features**

****Test Priority:** High**

****Preconditions:****

* A user account with full access permissions is logged in.

* A task dependency exists between two tasks (as per TC_001).

****Test Data:**** Tasks with a dependency relationship, where the dependent task is not completed.

****Test Steps:****

1. Navigate to the task list view.
2. Attempt to mark the parent task as complete.

****Postconditions:****

* An alert or warning message should be displayed.

****Expected Result:**** The system prevents the parent task from being marked complete until the dependent task is completed and provides a corresponding alert or warning to the user.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** System Testing, Functional Testing

****Test Case Approach:**** Negative

Remember that this is a starting point. You should adapt these test cases further based on your specific platform and application. You need to consider different scenarios like invalid input, user roles, and edge cases within the functionality of setting and managing task dependencies.

Data - 27

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Comments and Collaboration

Feature description -

Users can collaborate on tasks by leaving comments, attaching files, and engaging in discussions directly within the task interface. This feature facilitates communication and teamwork, allowing team members to provide updates, share feedback, and ask questions related to the task.

Userstory title -

As a user, I want to comment on tasks so that I can collaborate with my team.

Acceptance criteria -

['Users can add comments to tasks.', 'Comments can include text, attachments, and links.', 'Users can reply to and edit their comments.', 'The system notifies users of new comments.', 'Comments are displayed in chronological order.']

Generated Test Cases:

Here are 5 test cases for the "As a user, I want to comment on tasks so that I can collaborate with my team" user story:

Test Case 1

****Test Case ID:** TC_COMMENT_001**

****Test Case Title:** Verify that users can add text comments to tasks.**

****Test Case Description:** This test case verifies the functionality of adding text-based comments to a task.**

****Test Suite:** Task Management Tool - Collaboration**

****Test Priority:** High**

****Preconditions:****

* A user is logged into the Task Management Tool.

* A task exists in the system.

****Test Data:****

* Sample text comment: "Great progress on this task!"

****Test Steps:****

1. Navigate to the specified task within the Task Management Tool.
2. Click on the "Add Comment" button.
3. Enter the sample text comment in the comment field.
4. Click on the "Post Comment" button.
5. Verify that the added comment is displayed below the task details.

****Postconditions:****

* The comment is visible to the user who added it.

* The comment is chronologically ordered with other comments on the task.

****Expected Result:** The text comment is successfully added to the task and displayed in the designated comment section.**

****Severity:** Major**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Test Case 2

****Test Case ID:** TC_COMMENT_002**

****Test Case Title:** Verify that users can add attachments to comments.**

****Test Case Description:** This test case verifies the functionality of attaching files to comments on a task.**

****Test Suite:** Task Management Tool - Collaboration**

****Test Priority:** High**

****Preconditions:****

- * A user is logged into the Task Management Tool.
- * A task exists in the system.
- * A sample file (e.g., PDF, image) is available on the user's computer.

****Test Data:****

- * Sample file: Project_update.pdf

****Test Steps:****

1. Navigate to the specified task.
2. Click on the "Add Comment" button.
3. Click the "Attach File" button within the comment field.
4. Select the sample file (Project_update.pdf) from the user's computer.
5. Enter a brief comment text (optional).
6. Click on the "Post Comment" button.

****Postconditions:****

- * The attached file is displayed alongside the comment.
- * The file link works, and the user can download the file.

****Expected Result:**** The chosen file is successfully attached to the comment and displays along with the comment text.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 3

****Test Case ID:**** TC_COMMENT_003

****Test Case Title:**** Verify that users can reply to existing comments.

****Test Case Description:**** This test case verifies the functionality of replying to existing comments on a task.

****Test Suite:**** Task Management Tool - Collaboration

****Test Priority:**** High

****Preconditions:****

- * A user is logged into the Task Management Tool.
- * A task exists with at least one existing comment.

****Test Data:****

- * Sample comment: "Good work on meeting the deadline!"

* Sample reply: "Thank you! I appreciate the feedback."

****Test Steps:****

1. Navigate to the task containing existing comments.
2. Locate the existing comment ("Good work on meeting the deadline!").
3. Click the "Reply" button below the existing comment.
4. Enter the sample reply ("Thank you! I appreciate the feedback.") in the reply field.
5. Click the "Post Reply" button.

****Postconditions:****

- * The reply is displayed below the original comment to which it is responding.
- * The reply is chronologically ordered within the comment thread.

****Expected Result:**** The reply is successfully added as a response to the original comment and is displayed appropriately within the comment section.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 4

****Test Case ID:**** TC_COMMENT_004

****Test Case Title:**** Verify that users can edit their comments.

****Test Case Description:**** This test case verifies the functionality of editing existing comments.

****Test Suite:**** Task Management Tool - Collaboration

****Test Priority:**** High

****Preconditions:****

- * A user is logged into the Task Management Tool.
- * The user has authored at least one comment on a task.

****Test Data:****

- * Original comment: "Task seems to be progressing well."
- * Edited comment: "Task is complete and ready for review."

****Test Steps:****

1. Navigate to the task containing the user's original comment.
2. Locate the user's original comment.
3. Click the "Edit" button associated with the comment.
4. Change the text to the "Edited comment."
5. Click the "Save Changes" button.

****Postconditions:****

- * The comment text is updated to reflect the edited version.

****Expected Result:**** The comment is successfully edited, and the updated text is displayed.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 5

****Test Case ID:** TC_COMMENT_005**

****Test Case Title:** Verify comment notifications for new comments.**

****Test Case Description:** This test case verifies that users receive notifications when new comments are added to a task they are following.**

****Test Suite:** Task Management Tool - Collaboration**

****Test Priority:** High**

****Preconditions:****

- * Two users, User A and User B, are registered and logged into the system.
- * User A and User B are members of a project with a task.
- * User A "follows" the task.

****Test Data:****

- * Sample Comment for Notification: "Quick question about the next steps."

****Test Steps:****

1. User B comments on the task, adding the sample comment.
2. Verify that User A receives a notification about the new comment.
3. User A opens the notification and navigates to the task.
4. Verify that User A sees the new comment by User B.

****Postconditions:****

* User A is able to view the new comment on the task.

****Expected Result:**** User A receives a notification and can view the new comment added by User B on the task.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Data - 28

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

File Attachments

Feature description -

Users can attach relevant files, documents, and resources to tasks, ensuring that all necessary information is accessible in one place. File attachments can include documents, spreadsheets, images, links, and other

resources needed for task execution.

Userstory title -

As a user, I want to attach files to tasks so that all relevant information is easily accessible.

Acceptance criteria -

['Users can attach multiple files to a task.', 'Attachments can include various file types (documents, images, etc.).', 'Users can view and download attachments.', 'The system limits the size of attachments to prevent data overload.', 'Users can remove attachments if needed.']

Generated Test Cases:

Test Cases for Task Management Tool - File Attachments Feature

****Test Case ID:** TC_FAT_001**

****Test Case Title:** Verify that users can attach multiple files to a task.**

****Test Case Description:** This test case verifies that users can attach more than one file to a single task, ensuring the system supports multiple file attachments.**

****Test Suite:** File Attachment Feature**

****Test Priority:** High**

****Preconditions:****

*** A user account is created and logged into the Task Management Tool.**

****Test Data:** Multiple files of different types (e.g., .doc, .png, .pdf)**

****Test Steps:****

1. Create a new task
2. Add a file A (e.g., .doc) to the task
3. Add a file B (e.g., .png) to the task

4. Add a file C (e.g., .pdf) to the task
5. View the task details to confirm all three files are listed

****Postconditions:****

- * The task remains accessible with all attached files.
- * The files can be downloaded from the task details page.

****Expected Result:**** The system successfully allows the attachment of multiple files (at least three) to a single task.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive (Valid Input)

****Test Case ID:**** TC_FAT_002

****Test Case Title:**** Verify that the system accepts various file types for attachments.

****Test Case Description:**** This test case verifies that the system accepts various file types within allowed limits to ensure versatile resource sharing.

****Test Suite:**** File Attachment Feature

****Test Priority:**** High

****Preconditions:****

- * A user account is created and logged into the Task Management Tool.

****Test Data:**** A variety of file types (e.g., .doc, .docx, .txt, .pdf, .png, .jpg, .xlsx, .mp3)

****Test Steps:****

1. Create a new task
2. Attempt to upload each file type listed in Test Data individually.

****Postconditions:****

- * The uploaded files are accessible within the task details.

****Expected Result:**** The system successfully accepts and attaches various file types without error.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive (Valid Input)

****Test Case ID:**** TC_FAT_003

****Test Case Title:**** Verify that users can view and download attached files.

****Test Case Description:**** This test case verifies the user's ability to access attached files for view and download to ensure easy access to task-related resources.

****Test Suite:**** File Attachment Feature

****Test Priority:**** High

****Preconditions:****

- * A user account is created and logged into the Task Management Tool.

****Test Data:**** A file is attached to a task (e.g., .pdf) using previous test cases.

****Test Steps:****

1. Open the task containing the attached file.
2. Click on the file name to view the file within the browser.
3. Click the download button to download the file to the local machine.

****Postconditions:****

- * The downloaded file matches the original.

****Expected Result:**** The system successfully allows users to view and download attached files.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive (Valid Input)

****Test Case ID:**** TC_FAT_004

****Test Case Title:**** Verify that the system imposes size limits on attachments.

****Test Case Description:**** This test case verifies the system's implementation of file size limits to prevent data overload and ensure efficient system performance.

****Test Suite:**** File Attachment Feature

****Test Priority:**** Medium

****Preconditions:****

- * A user account is created and logged into the Task Management Tool.

****Test Data:****

* A file significantly larger than the defined limit (e.g., 100MB)

* A file within the defined limit (e.g., 10MB)

****Test Steps:****

1. Attempt to upload the large file (Test Data) to a task.
2. Ensure the system displays an error message indicating the file size exceeds the limit.
3. Successfully upload the smaller file within the limit (Test Data) to the task.

****Postconditions:****

* The system displays an appropriate error message for exceeding the file size limit.

****Expected Result:**** The system prevents the upload of files exceeding the defined size limit and allows the upload of smaller files.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive/Negative (Valid/Invalid Input)

****Test Case ID:**** TC_FAT_005

****Test Case Title:**** Verify that users can remove attached files.

****Test Case Description:**** This test case verifies the user's ability to delete attachments from tasks, ensuring

control over attached content.

****Test Suite:**** File Attachment Feature

****Test Priority:**** Medium

****Preconditions:****

- * A user account is created and logged into the Task Management Tool.
- * A file is attached to a task using previous test cases.

****Test Data:**** The file attached to the task in the preconditions.

****Test Steps:****

1. Open the task containing the attached file.
2. Locate the "Remove" or "Delete" option associated with the file.
3. Click the "Remove" or "Delete" option for the selected file.
4. Confirm the file is removed from the task details.

****Postconditions:****

- * The removed attachment is no longer accessible within the task.

****Expected Result:**** The system successfully removes the selected file attachment from the task.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive (Valid Input)

Data - 29

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Recurring Tasks

Feature description -

Users can set tasks to repeat at specified intervals, automating the creation of recurring tasks such as weekly meetings, monthly reports, or quarterly reviews. Recurring tasks save time and effort by eliminating the need to create them manually for each occurrence.

Userstory title -

As a user, I want to set recurring tasks so that regular activities are automated.

Acceptance criteria -

['Users can set tasks to recur at specified intervals (daily, weekly, monthly).', 'The system generates instances of recurring tasks automatically.', 'Users can modify the recurrence pattern or cancel the recurrence.', 'The system notifies users of upcoming instances of recurring tasks.', 'Users can view a list of all instances of a recurring task.']

Generated Test Cases:

Here are 5 test cases for the "Recurring Tasks" feature in the Task Management Tool project:

Test Case 1

****Test Case ID:**** TC_Recurring_01

****Test Case Title:**** Verify that users can set tasks to recur daily.

****Test Case Description:**** This test case verifies the functionality of setting a task to repeat daily.

****Test Suite:**** Feature - Recurring Tasks

****Test Priority:**** High

****Preconditions:****

- * A user is logged into the Task Management Tool.
- * The user has the necessary permissions to create tasks.

****Test Data:****

- * Task title: "Daily Stand-up Meeting"
- * Task description: "A brief meeting to discuss progress and plans for the day."
- * Due date: Tomorrow
- * Recurrence: Daily

****Test Steps:****

1. Navigate to the "Add Task" screen.
2. Enter the task title, description, and due date.
3. Select the "Recurring" option.
4. Set the recurrence interval to "Daily".
5. Save the task.

****Postconditions:****

- * A recurring task is created that repeats daily.
- * The system displays an indication that the task is recurring (e.g., a label or icon).

****Expected Result:****

The task is successfully created and scheduled to repeat daily. Upcoming instances of the task are displayed in the task list.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Test Case 2

****Test Case ID:** TC_Recurring_02**

****Test Case Title:** Verify that users can set tasks to recur weekly.**

****Test Case Description:** This test case verifies the functionality of setting a task to repeat weekly.**

****Test Suite:** Feature - Recurring Tasks**

****Test Priority:** High**

****Preconditions:****

- * A user is logged into the Task Management Tool.
- * The user has the necessary permissions to create tasks.

****Test Data:****

- * Task title: "Weekly Report"
- * Task description: "Review and submit weekly progress report."
- * Due date: Next Friday
- * Recurrence: Weekly

****Test Steps:****

1. Navigate to the "Add Task" screen.
2. Enter the task title, description, and due date.

3. Select the "Recurring" option.
4. Set the recurrence interval to "Weekly".
5. Save the task.

****Postconditions:****

- * A recurring task is created that repeats weekly on the selected day.
- * The system displays an indication that the task is recurring.

****Expected Result:****

The task is successfully created and scheduled to repeat weekly on the specified day. Upcoming instances of the task are displayed in the task list.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Test Case 3

****Test Case ID:** TC_Recurring_03**

****Test Case Title:** Verify that users can set tasks to recur monthly.**

****Test Case Description:**** This test case verifies the functionality of setting a task to repeat monthly.

****Test Suite:**** Feature - Recurring Tasks

****Test Priority:**** High

****Preconditions:****

- * A user is logged into the Task Management Tool.
- * The user has the necessary permissions to create tasks.

****Test Data:****

- * Task title: "Project Review"
- * Task description: "Conduct a monthly review of project progress."
- * Due date: First Friday of next month
- * Recurrence: Monthly

****Test Steps:****

1. Navigate to the "Add Task" screen.
2. Enter the task title, description, and due date.
3. Select the "Recurring" option.
4. Set the recurrence interval to "Monthly" and specify the day of the month.
5. Save the task.

****Postconditions:****

* A recurring task is created that repeats monthly on the selected day.

* The system displays an indication that the task is recurring.

****Expected Result:****

The task is successfully created and scheduled to repeat monthly on the specified day. Upcoming instances of the task are displayed in the task list.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Test Case 4

****Test Case ID:** TC_Recurring_04**

****Test Case Title:** Verify that users can modify the recurrence pattern of a recurring task.**

****Test Case Description:** This test case verifies the functionality of modifying the recurrence pattern of an existing recurring task.**

****Test Suite:** Feature - Recurring Tasks**

****Test Priority:** Medium**

****Preconditions:****

- * A user is logged into the Task Management Tool.
- * The user has created a recurring task and it exists in the system.

****Test Data:****

- * Existing recurring task with daily recurrence

****Test Steps:****

1. Open the existing recurring task.
2. Modify the recurrence interval to weekly.
3. Save the changes.

****Postconditions:****

- * The task's recurrence pattern is updated to weekly.
- * The system displays the updated recurrence information.

****Expected Result:****

The recurrence pattern of the task is successfully changed to weekly. Upcoming instances of the task are

adjusted accordingly.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Test Case 5

****Test Case ID:** TC_Recurring_05**

****Test Case Title:** Verify that users can cancel the recurrence of a recurring task.**

****Test Case Description:** This test case verifies the functionality of canceling the recurrence of an existing recurring task.**

****Test Suite:** Feature - Recurring Tasks**

****Test Priority:** Medium**

****Preconditions:****

* A user is logged into the Task Management Tool.

* The user has created a recurring task and it exists in the system.

****Test Data:****

* Existing recurring task with weekly recurrence

****Test Steps:****

1. Open the recurring task.
2. Cancel the recurrence option.
3. Save the changes.

****Postconditions:****

- * The task is no longer recurring.
- * The system displays an indication that the recurrence has been canceled.

****Expected Result:****

The recurrence for the task is successfully canceled. Upcoming instances of the task do not generate automatically.

Data - 30

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Tags and Labels

Feature description -

Tasks can be categorized and labeled using tags, making it easier to organize and filter tasks based on different criteria such as project, priority, or status. Tags provide a flexible way to categorize tasks and customize task views based on users' preferences.

Userstory title -

As a user, I want to use tags and labels to categorize tasks so that I can easily organize and filter them.

Acceptance criteria -

['Users can add tags and labels to tasks.', 'Tags can be customized and edited.', 'Tasks can be filtered and sorted based on tags and labels.', 'The system displays tags and labels prominently in the task list.', 'Users can remove tags and labels if needed.']

Generated Test Cases:

Test Cases for Task Management Tool - Task Tags and Labels Feature

****User Story:**** As a user, I want to use tags and labels to categorize tasks so that I can easily organize and filter them.

****Test Suite:**** Task Management Feature Testing

****Test Priority:**** High

****Test Case 1:**** Verify that users can add tags to tasks.

****Test Case Description:****

This test case verifies the functionality of adding tags to tasks. It will ensure that users can enter tags freely and that these tags are correctly assigned to the task.

****Preconditions:****

- * User is logged in to the task management tool.
- * A new task is created.
- * The task has no existing tags.

****Test Data:****

- * Tag names: "Project A", "High Priority", "Design"

****Test Steps:****

1. Navigate to the newly created task.
2. Click on the "Add Tag" button or field.
3. Enter "Project A" as the first tag and click "Add" or "Save".
4. Repeat steps 2-3 for the tags "High Priority" and "Design".
5. Verify that the three tags ("Project A", "High Priority", "Design") are displayed correctly associated with the task.

****Expected Result:**** The specified tags are successfully added to the task and are visible in the task details.

****Severity:** Major**

****Priority:** High**

****Test Case 2:** Verify that users can edit existing tags on tasks.**

****Test Case Description:****

This test case verifies the functionality of editing existing tags on tasks. It will ensure that users can modify tag names and that these changes are reflected in the task details.

****Preconditions:****

- * A task with at least one existing tag.
- * The user has edit permissions on the task.

****Test Data:****

- * Existing tag: "Project A"
- * New tag name: "Project B"

****Test Steps:****

1. Navigate to the task with the existing tag.
2. Click on the existing tag "Project A".
3. Edit the tag name to "Project B" and click "Save" or "Apply".
4. Verify that the tag "Project A" is replaced with "Project B" in the task details.

****Expected Result:** The tag name is successfully edited, and the updated tag is displayed in the task details.**

****Severity:** Major**

****Priority:** High**

****Test Case 3:** Verify that users can remove tags from tasks.**

****Test Case Description:****

This test case verifies the functionality of removing tags from tasks. It will ensure that users can delete tags and that these deletions are reflected in the task details.

****Preconditions:****

- * A task with at least one existing tag.
- * User has edit permissions on the task.

****Test Data:****

- * Existing tag: "Design"

****Test Steps:****

1. Navigate to the task with the "Design" tag.
2. Click on the existing tag "Design".
3. Click on the "Remove" or "Delete" button associated with the tag.
4. Verify that the tag "Design" is no longer displayed associated with the task.

****Expected Result:**** The tag is successfully removed from the task, and its display disappears in Task details.

****Test Case 4:**** Verify that tasks can be filtered and sorted based on tags.

****Test Case Description:****

This test case verifies the functionality of filtering and sorting tasks based on assigned tags.

****Preconditions:****

- * Tasks are created with various tags assigned.

****Test Data:****

- * Multiple tasks with tags "High Priority", "Project A", "Completed".

****Test Steps:****

1. Navigate to the task list view.
2. Filter the task list by "High Priority" tag.
3. Verify that only tasks with the "High Priority" tag are displayed.
4. Sort the task list by "Project A" tag in ascending order.
5. Verify that tasks within "Project A" are displayed in ascending alphabetical order based on task names.

****Expected Result:**** The task list is successfully filtered and sorted based on the selected tag criteria.

****Severity:** Critical**

****Priority:** High**

****Test Case 5:** Verify that the system prominently displays tags and labels in the task list.**

****Test Case Description:****

This test case ensures that tags and labels are displayed in a clear and visible manner within the task list view, aiding in quick task identification and filtering.

****Preconditions:****

* Tasks are created with tags assigned.

****Test Data:****

* Tasks with various tags like "High Priority", "Urgent", "Project X"

****Test Steps:****

1. Navigate to the task list view.
2. Observe the display of tags for each task.
3. Verify that tags are presented in a visually distinct manner (e.g., color-coded, font style, icon) to enhance readability.
4. Check if tags are displayed consistently across different views within the task management tool.

****Expected Result:** Tags are prominently displayed in the task list, enhancing task organization and**

visibility. Tags are consistently displayed across different views.

****Severity:**** Major

****Priority:**** High

Data - 31

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Status Tracking

Feature description -

Users can track the status of tasks, including their progress, completion percentage, and current stage. Task status updates provide visibility into task lifecycle and project progression, helping users monitor task progress and identify bottlenecks.

Userstory title -

As a user, I want to track the status of tasks so that I can monitor progress and identify bottlenecks.

Acceptance criteria -

['Users can update the status of tasks (e.g., To Do, In Progress, Completed).', 'The system displays task status prominently in the task list.', 'Users can view the progress percentage of tasks.', 'The system provides notifications for status changes.', 'Task status can be filtered and sorted.']

Generated Test Cases:

Here are 5 detailed test cases for the "Task Status Tracking" user story in the Task Management Tool project:

Test Case 1

****Test Case ID:** TMT-STA-001**

****Test Case Title:**** Verify that users can update the status of tasks to "To Do", "In Progress", and "Completed".

****Test Case Description:**** This test case will verify the user's ability to change the status of a task from "To Do" to "In Progress", "Completed", and back, ensuring the system reflects these changes accurately.

****Test Suite:**** Task Management

****Test Priority:**** High

****Preconditions:****

* A new task should be created

* A user with the necessary permissions should be logged in.

****Test Data:****

* Task Title: "Test Case Task 1"

* Task Description: "This is a task for testing status updates."

* Initial Status: "To Do"

****Test Steps:****

1. Navigate to the task list.
2. Find the newly created task "Test Case Task 1".
3. Click on the "To Do" status and select "In Progress" from the dropdown menu.
4. Verify that the task status is updated to "In Progress" in the task list.
5. Click on the "In Progress" status and select "Completed" from the dropdown menu.
6. Verify that the task status is updated to "Completed" in the task list.

****Postconditions:****

* The task should remain marked as "Completed".

****Expected Result:**** The task status will be successfully changed between "To Do", "In Progress", and "Completed".

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 2

****Test Case ID:**** TMT-STA-002

****Test Case Title:**** Verify that the system displays the task status prominently in the task list.

****Test Case Description:**** This test case will ensure the visual representation of task status is clear and prominent within the task list view.

****Test Suite:**** Task Management

****Test Priority:**** High

****Preconditions:****

* Multiple tasks with different statuses (e.g., "To Do", "In Progress", "Completed") should exist.

* A user with access to the task list should be logged in.

****Test Data:****

* Multiple tasks with varying statuses are already in the system.

****Test Steps:****

1. Navigate to the task list.
2. Examine the layout of each task displayed.
3. Verify that each task has its status clearly indicated using a distinct visual cue (e.g., color-coding, icons).
4. Ensure the status is easily identifiable and prominent within the task listing.

****Postconditions:****

* The visual display of task statuses remains consistent.

****Expected Result:**** Task statuses will be displayed prominently and distinctively within the task list.

****Severity:** Major**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Test Case 3

****Test Case ID:** TMT-STA-003**

****Test Case Title:** Verify that users can view the progress percentage of tasks.**

****Test Case Description:** This test case will verify the accuracy and functionality of the progress percentage display for tasks.**

****Test Suite:** Task Management**

****Test Priority:** High**

****Preconditions:****

*** A task with a defined progress should exist.**

****Test Data:****

*** A task with an estimated duration of 100 units and progress of 50 units.**

****Test Steps:****

1. Navigate to the task details for the task with defined progress.

2. Locate the progress percentage display.
3. Verify that the progress percentage is accurately reflected (e.g., 50%).

****Postconditions:****

* The task remains open

****Expected Result:**** The displayed progress percentage will accurately represent the task's completion status.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 4

****Test Case ID:**** TMT-STA-004

****Test Case Title:**** Verify the system provides notifications for status changes.

****Test Case Description:**** This test case ensures the system effectively sends notifications when a task's status is updated.

****Test Suite:**** Task Management

****Test Priority:**** Medium

****Preconditions:****

* A task should exist.

* A user account with notification settings enabled should be logged in.

****Test Data:****

* A task with a future deadline.

* Email or other chosen notification method setup for the user account.

****Test Steps:****

1. Navigate to the task details.

2. Update the task status from "To Do" to "In Progress".

****Postconditions:****

* The relevant notification should be delivered to the user (e.g., via email).

****Expected Result:**** Upon the status change, the user receives prompt and accurate notifications.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 5

****Test Case ID:**** TMT-STA-005

****Test Case Title:**** Verify that task status can be filtered and sorted.

****Test Case Description:**** This test case confirms the functionality of filtering and sorting tasks based on their status.

****Test Suite:**** Task Management

****Test Priority:**** Medium

****Preconditions:****

* Multiple tasks with varying statuses should be present in the system.

****Test Data:****

* At least 3 tasks with statuses "To Do", "In Progress", and "Completed".

****Test Steps:****

1. Navigate to the task list.
2. Utilize the filter option to display only "Completed" tasks.
3. Verify that the list shows only tasks marked as "Completed".
4. Sort the tasks by "Last Updated" date in descending order.
5. Verify that the "Completed" tasks are now sorted according to the last update time.
6. Change the filter to "To Do" and verify the relevant tasks are displayed.

****Postconditions:****

* The task list displays the tasks filtered and sorted according to the selected criteria

****Expected Result:**** Filtering and sorting by status accurately displays the desired tasks.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing & Usability Testing

****Test Case Approach:**** Positive & Negative

Data - 32

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Filtering and Sorting

Feature description -

Users can filter and sort tasks based on various criteria such as due date, priority, assignee, or project. Filtering

and sorting options help users focus on specific tasks or view tasks from different perspectives, enhancing task management and organization.

Userstory title -

As a user, I want to filter and sort tasks so that I can focus on specific tasks or view tasks from different perspectives.

Acceptance criteria -

['Users can filter tasks based on criteria such as due date, priority, assignee, or project.', 'Tasks can be sorted by various attributes.', 'The system provides multiple filter and sort options in the task list.', 'Users can save and apply custom filter and sort settings.', 'Filters and sorts do not affect the actual data, only the view.']

Generated Test Cases:

Test Cases for Task Management Tool - Task Filtering and Sorting

****Test Case ID:** TC_TASK_FILTER_SORT_001**

****Test Case Title:** Verify that tasks can be filtered by due date**

****Test Case Description:** This test case verifies the ability to filter tasks based on their due date.**

****Test Suite:** Feature - Task Filtering and Sorting**

****Test Priority:** High**

****Preconditions:****

* User is logged in to the Task Management Tool.

* At least three tasks with different due dates exist in the system.

* Task Management Tool is functioning correctly.

****Test Data:****

* Multiple tasks with diverse due dates (e.g., today, tomorrow, next week, next month).

****Test Steps:****

1. Navigate to the task list view.

2. Click on the "Due Date" filter dropdown.

3. Select a specific due date range (e.g., "Today").
4. Verify that only tasks with due dates within the selected range are displayed.
5. Select a different date range (e.g., "Next Week") and verify that the displayed tasks change accordingly.

****Postconditions:****

* The task list reverts to displaying all tasks.

****Expected Result:**** The system successfully filters tasks based on selected due date criteria.

****Severity:** Critical****

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case ID:** TC_TASK_FILTER_SORT_002**

****Test Case Title:** Verify that tasks can be sorted by priority**

****Test Case Description:** This test case verifies the ability to sort tasks based on their priority level.**

****Test Suite:** Feature - Task Filtering and Sorting**

****Test Priority:** High**

****Preconditions:****

* User is logged in to the Task Management Tool.

* At least three tasks with different priority levels exist in the system.

****Test Data:****

* Multiple tasks with varying priority levels (e.g., High, Medium, Low).

****Test Steps:****

1. Navigate to the task list view.
2. Click on the "Priority" sort dropdown.
3. Select the "High" priority sorting option.
4. Verify that tasks are displayed in descending order of priority (High priority at the top).

5. Select the "Low" priority sorting option and verify that tasks are displayed in ascending order of priority (Low priority at the top).

****Postconditions:****

* The task list reverts to displaying tasks in their original order.

****Expected Result:**** The system successfully sorts tasks based on chosen priority criteria.

****Severity:** Critical****

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case ID:** TC_TASK_FILTER_SORT_003**

****Test Case Title:** Verify that tasks can be filtered by assignee**

****Test Case Description:** This test case verifies the ability to filter tasks based on the assigned user.**

****Test Suite:** Feature - Task Filtering and Sorting**

****Test Priority:** High**

****Preconditions:****

* User is logged in to the Task Management Tool.

* Multiple users exist with unique login credentials.

* At least three tasks are assigned to different users.

****Test Data:****

* Multiple tasks assigned to different users.

* List of user names available in the assignee filter.

****Test Steps:****

1. Navigate to the task list view.

2. Click on the "Assignee" filter dropdown.

3. Select a specific user from the dropdown list.

4. Verify that only tasks assigned to the selected user are displayed.
5. Select a different user and verify that the displayed tasks change accordingly.

****Postconditions:****

* The task list reverts to displaying all tasks.

****Expected Result:**** The system successfully filters tasks based on selected assignee criteria.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case ID:**** TC_TASK_FILTER_SORT_004

****Test Case Title:**** Verify that custom filter and sort settings can be saved and applied

****Test Case Description:**** This test case verifies the functionality of saving and applying custom filter and sort settings for user preferences.

****Test Suite:**** Feature - Task Filtering and Sorting

****Test Priority:**** Medium

****Preconditions:****

* User is logged in to the Task Management Tool.

* User has applied at least one filter and sort combination.

****Test Data:****

* Task list with filters and sort applied. Saved preset filter and sort combination.

****Test Steps:****

1. Apply custom filters and sort settings to the task list.
2. Click on the "Save Settings" option to save the current preferences.
3. Log out and log back into the Task Management Tool.

4. Navigate to the task list view.
5. Click on the "Load Saved Settings" option and select saved preferences.
6. Verify that the task list displays the filtered and sorted data according to the saved settings.

****Postconditions:****

- * The task list displays the saved filter and sort settings.

****Expected Result:**** Saved filter and sort settings are correctly loaded and applied upon login.

****Severity:** Major****

Priority: Medium

****Type of Testing:** Functional Testing**

****Test Case ID:** TC_TASK_FILTER_SORT_005**

****Test Case Title:** Verify that filters and sorts do not affect actual task data.**

****Test Case Description:**** This test case verifies that applying filters and sorts only changes the view and does not modify the underlying task data.

****Test Suite:** Feature - Task Filtering and Sorting**

****Test Priority:** Medium**

****Preconditions:****

- * User is logged in to the Task Management Tool.
- * At least three tasks exist in the system with different attributes

****Test Data:****

- * Multiple tasks with different due dates, priorities, assignees, and project categories.

****Test Steps:****

1. View the complete task list without applying any filters or sorting.
2. Apply different filter and sort combinations to the task list.
3. Verify that the displayed tasks reflect the applied filters and sorts,
4. Remove all filters and sort settings (restore default view).
5. Verify that the displayed task list returns to its original state.

****Step 6.** Note any observed changes in the underlying task data.

****Postconditions:****

* The task list reverts to displaying all tasks in their original state

****Expected Result:**** Filters and sorts only modify the displayed view and do not affect the actual task data.

****Severity:**** Major

* ****Priority:**** Medium

* ****Type of Testing:**** Functional Testing

Data - 33

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or

projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Time Tracking

Feature description -

Users can track the time spent on individual tasks, enabling accurate time management, project billing, and resource allocation. Time tracking features can include timers, timesheets, and reports that capture billable hours and productivity metrics.

Userstory title -

As a user, I want to track the time spent on tasks so that I can manage my time efficiently.

Acceptance criteria -

['Users can start and stop a timer for each task.', 'The system records and displays total time spent on tasks.', 'Users can manually enter or adjust time entries.', 'Time tracking data is stored and can be exported.', 'The system provides reports on time spent per task or project.']

Generated Test Cases:

Test Cases for Time Tracking Feature

****Test Case ID:** TC_TT_01**

****Test Case Title:** Verify that users can start and stop a timer for each task.**

****Test Case Description:**** This test case verifies the functionality of starting and stopping a timer for individual tasks. It will ensure that the timer accurately tracks the elapsed time and that the user can pause and resume the timer as needed.

****Test Suite:** Time Tracking**

****Test Priority:** High**

****Preconditions:****

- User is logged into the system.
- User has created at least one task.

****Test Data:**** No test data needed.

****Test Steps:****

1. Navigate to the task detail page of the created task.
2. Click on the "Start Timer" button.
3. Wait for a specified duration (e.g., 5 minutes).
4. Click on the "Stop Timer" button.
5. Verify that the elapsed time is accurately displayed in the task detail page.
6. Repeat steps 2-5 multiple times with varying durations to ensure accuracy and functionality.

****Postconditions:****

- Timer is stopped.
- Time tracked is recorded in the task details.

****Expected Result:**** The timer should accurately record the time spent on the task, and the user should be able to start and stop the timer as needed.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional, System

****Test Case ID:**** TC_TT_02

****Test Case Title:**** Verify that the system records and displays total time spent on tasks.

****Test Case Description:**** This test case verifies that the system correctly records and displays the total time spent on a task, including time recorded using both the timer and manual entries.

****Test Suite:**** Time Tracking

****Test Priority:**** High

****Preconditions:****

- User is logged into the system.
- User has created at least one task.

****Test Data:**** No test data needed.

****Test Steps:****

1. Start the timer for the task.
2. Wait for a specific duration, then stop the timer.
3. Manually enter additional time for the task.
4. Access the task details page and verify that the total time spent is the sum of the timer duration and the manually entered time.

****Postconditions:****

- Total time for the task is displayed in the task details.

****Expected Result:**** The system should accurately calculate and display the total time spent on the task, combining both timer and manual entries.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional, System**

****Test Case ID:** TC_TT_03**

****Test Case Title:** Verify that users can manually enter or adjust time entries.**

****Test Case Description:** This test case ensures that users can accurately input time for tasks, modify existing entries, and handle potential time conflicts or inconsistencies.**

****Test Suite:** Time Tracking**

****Test Priority:** High**

****Preconditions:****

- User is logged into the system.
- One or more tasks have existing time entries.

****Test Data:****

- A user needs to manually add more time to an existing task.
- Another user needs to adjust an existing time entry for an incorrect input.

****Test Steps:****

1. Log into the system as User A and navigate to a task with existing time entries.
2. Manually add more time to the task, ensuring the new entry is saved.
3. Log into the system as User B and navigate to the same task.
4. Modify an existing time entry for the task, then save the changes.

****Postconditions:****

- Changes are reflected in the task details.

****Expected Result:**** Both users should be able to successfully manually add or adjust time entries for the task without encountering errors or data corruption.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional, System

****Test Case ID:**** TC_TT_04

****Test Case Title:**** Verify that time tracking data is stored and can be exported.

****Test Case Description:**** This test case confirms that time tracking information is correctly saved in the system and can be exported in a usable format.

****Test Suite:**** Time Tracking

****Test Priority:**** Medium

****Preconditions:****

- User is logged into the system.
- A task exists with tracked time.

****Test Data:****

- A task with test time entries.

****Test Steps:****

1. Track time on the task using the timer functionality.
2. Access the export feature for time tracking data.
3. Select a desired export format (e.g., CSV, Excel).
4. Download the exported file.

****Postconditions:****

- Exported file contains tracked time data.

****Expected Result:**** The system should successfully export the tracked time data in the chosen format, preserving the relevant timestamps, task associations, and other data points.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional, Data-Persistence

****Test Case ID:**** TC_TT_05

****Test Case Title:**** Verify that the system provides reports on time spent per task or project.

****Test Case Description:**** This test case verifies that the system generates reports that accurately display time spent on individual tasks or grouped projects.

****Test Suite:**** Time Tracking

****Test Priority:**** Medium

****Preconditions:****

- User is logged into the system.

- There are multiple tasks associated with at least two projects.

****Test Data:****

- Task data with time entries.

****Test Steps:****

1. Access the reports section related to time tracking.
2. Select to generate a report for specific tasks.
3. Select to generate a report for specific projects.
4. Review the generated reports for accuracy.

****Postconditions:****

- User has access to both task and project time reports.

****Expected Result:**** The system should generate comprehensive reports displaying time spent on tasks and projects, including accurate time summaries, breakdowns, and optionally filters to allow for targeted reporting.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional, Reporting

Data - 34

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Templates

Feature description -

Users can create and use templates for common task types or project workflows, streamlining task creation and standardizing processes across projects. Task templates can include predefined task structures, descriptions, assignees, and due dates, saving time and ensuring consistency in task execution.

Userstory title -

As a user, I want to use task templates so that I can streamline task creation and ensure consistency.

Acceptance criteria -

['Users can create and save task templates.', 'Templates can include predefined task structures, descriptions, assignees, and due dates.', 'Users can apply templates to new tasks or projects.', 'Templates can be edited or deleted as needed.', 'The system displays a list of available templates for selection.']

Generated Test Cases:

Task Management Tool - Test Cases for Task Templates Feature

****User Story Title:**** As a user, I want to use task templates so that I can streamline task creation and ensure consistency.

Test Case 1

****Test Case ID:** TC_001**

****Test Case Title:** Verify that users can create a new task template.**

****Test Case Description:****

This test case verifies the functionality of creating a new task template with predefined structure, description, assignee, and due date.

****Test Suite:** User Interface - Task Management**

****Test Priority:** High**

****Preconditions:****

- * User is logged in to the Task Management Tool.
- * User has necessary permissions to create templates.
- * No existing templates with the same name.

****Test Data:****

- * Template Name: "Project Kickoff Meeting"
- * Template Structure: Task 1: Define project scope, Task 2: Identify project stakeholders
- * Template Description: "Template for initial project kickoff meetings"
- * Assignee: "Project Manager"
- * Due Date: "2024-03-15"

****Test Steps:****

1. Navigate to the "Templates" section within the task management tool.

2. Click on the "Create New Template" button.
3. Fill in the template details: Name, Structure, Description, Assignee, Due Date.
4. Click on the "Save Template" button.
5. Verify that the newly created template is displayed in the template list.

****Postconditions:****

* The template is saved successfully.

****Expected Result:****

A new task template with the specified details is successfully created and displayed in the list.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing, Integration Testing**

****Test Case Approach:** Positive**

Test Case 2

****Test Case ID:** TC_002**

****Test Case Title:** Verify that users can apply a template to a new task.**

****Test Case Description:****

This test case verifies the functionality of applying an existing template to a new task, ensuring the predefined task details are populated.

****Test Suite:**** User Interface - Task Management

****Test Priority:**** High

****Preconditions:****

- * User is logged in to the Task Management Tool.
- * At least one task template exists.

****Test Data:****

- * Selected Task Template: "Project Kickoff Meeting"
- * New Task Name: "Kickoff Meeting Agenda"

****Test Steps:****

1. Navigate to the "New Task" section within the task management tool.
2. Select the "Project Kickoff Meeting" template from the available list.
3. Enter a new task name "Kickoff Meeting Agenda".
4. Click on "Create Task".

****Postconditions:****

- * A new task is created.

****Expected Result:****

A new task is created with the task structure, description, assignee, and due date from the "Project Kickoff Meeting" template. The task name is correctly set to "Kickoff Meeting Agenda".

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing, Integration Testing

****Test Case Approach:** Positive**

Test Case 3

****Test Case ID:** TC_003**

****Test Case Title:** Verify that users can edit an existing task template.**

****Test Case Description:****

This test case verifies the functionality of editing an existing task template, ensuring changes are saved and reflected.

****Test Suite:** User Interface - Task Management**

****Test Priority:** Medium**

****Preconditions:****

- * User is logged in to the Task Management Tool.
- * At least one task template exists.
- * User has necessary permissions to edit templates.

****Test Data:****

* Existing Template Name: "Project Kickoff Meeting"

* Edited Description: "Updated template for initial project kickoff meetings"

****Test Steps:****

1. Navigate to the "Templates" section within the task management tool.
2. Select the "Project Kickoff Meeting" template.
3. Click on the "Edit Template" button.
4. Modify the template description to "Updated template for initial project kickoff meetings".
5. Click on the "Save Template" button.

****Postconditions:****

- * The template is saved successfully.

****Expected Result:****

The description of the "Project Kickoff Meeting" template is successfully updated to the new value.

****Severity:**** Minor

****Priority:**** High

****Type of Testing:**** Functional Testing, Integration Testing

****Test Case Approach:**** Positive

Test Case 4

****Test Case ID:**** TC_004

****Test Case Title:**** Verify that users can delete an existing task template.

****Test Case Description:****

This test case verifies the functionality of deleting an existing task template, ensuring the template is removed from the system.

****Test Suite:**** User Interface - Task Management

****Test Priority:**** Medium

****Preconditions:****

- * User is logged in to the Task Management Tool.
- * At least one task template exists.
- * User has necessary permissions to delete templates.

****Test Data:****

- * Template to be deleted: "Project Kickoff Meeting"

****Test Steps:****

1. Navigate to the "Templates" section within the task management tool.
2. Select the "Project Kickoff Meeting" template.
3. Click on the "Delete Template" button.
4. Confirm the deletion in the pop-up dialog box.

****Postconditions:****

- * The template is no longer accessible.

****Expected Result:****

The "Project Kickoff Meeting" template is successfully deleted from the system and is no longer visible in the template list.

****Severity:** Minor**

****Priority:** High**

****Type of Testing:** Functional Testing, Integration Testing**

****Test Case Approach:** Positive**

Test Case 5

****Test Case ID:** TC_005**

****Test Case Title:** Verify that the system displays a list of available task templates for selection.**

****Test Case Description:****

This test case verifies that the system correctly displays the list of available task templates with relevant information for user selection.

****Test Suite:** User Interface - Task Management**

****Test Priority:** Medium**

****Preconditions:****

* User is logged in to the Task Management Tool.

****Test Data:****

* Existing Templates: "Project Kickoff Meeting", "New Feature Development"

****Test Steps:****

- 1. Navigate to the "Templates" section within the task management tool.
- 2. Verify that both "Project Kickoff Meeting" and "New Feature Development" templates are displayed in the list.

****Postconditions:****

- * No errors are displayed in the UI.

****Expected Result:****

The system displays a clearly structured list of available task templates, each with a link or button to apply it to a new task, alongside its name and description.

****Severity:** Minor**

****Priority:** Medium**

****Type of Testing:** Functional Testing, Usability Testing**

****Test Case Approach:** Positive**

Data - 35

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Calendar Integration

Feature description -

Tasks can be synced with users' calendars, providing a unified view of task deadlines and commitments alongside other scheduled events and appointments. Calendar integration helps users manage their time effectively and avoid scheduling conflicts.

Userstory title -

As a user, I want to sync tasks with my calendar so that I can manage my time and avoid scheduling conflicts.

Acceptance criteria -

['Users can sync tasks with external calendars (e.g., Google Calendar, Outlook).', 'The system displays task deadlines in the calendar view.', 'Users can set reminders for tasks via the calendar.', 'Calendar events update automatically when tasks are changed.', 'Users can manage calendar sync settings within the app.']

Generated Test Cases:

Here are five detailed test cases for the "Calendar Integration" feature of the Task Management Tool, following your instructions:

Test Case 1

****Test Case ID:**** TC_CAL_001

****Test Case Title:**** Verify that tasks sync with Google Calendar

****Test Case Description:**** This test case verifies the functionality of syncing tasks with a Google Calendar

account. It will confirm that task deadlines appear correctly in the user's Google Calendar view.

****Test Suite:**** Calendar Integration

****Test Priority:**** High

****Preconditions:****

* User has a valid Google Calendar account.

* User has enabled access to the Task Management Tool from their Google Calendar settings.

****Test Data:****

* A sample task with a defined deadline.

****Test Steps:****

1. Log into the Task Management Tool.
2. Navigate to the settings section and enable Google Calendar synchronization.
3. Create a new task with a specific deadline.
4. Verify that the task deadline appears in the user's Google Calendar view.
5. Modify the deadline of the task within the Task Management Tool.
6. Confirm that the updated deadline reflects in the user's Google Calendar.

****Postconditions:****

* Google Calendar synchronization is disabled in the settings.

****Expected Result:**** The task deadline appears correctly in the Google Calendar, and updates made within the Task Management Tool reflect in the Google Calendar.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** System Testing, Integration Testing

****Test Case Approach:**** Positive

Test Case 2

****Test Case ID:**** TC_CAL_002

****Test Case Title:**** Verify that tasks sync with Outlook Calendar

****Test Case Description:**** This test case expands on TC_CAL_001, verifying the functionality of syncing tasks with an Outlook Calendar account.

****Test Suite:**** Calendar Integration

****Test Priority:**** High

****Preconditions:****

* User has a valid Outlook Calendar account.

* User has enabled access to the Task Management Tool from their Outlook Calendar settings.

****Test Data:****

* A sample task with a defined deadline.

****Test Steps:****

1. Log into the Task Management Tool.
2. Navigate to the settings section and enable Outlook Calendar synchronization.
3. Create a new task with a specific deadline.
4. Verify that the task deadline appears in the user's Outlook Calendar view.
5. Modify the deadline of the task within the Task Management Tool.

6. Confirm that the updated deadline reflects in the user's Outlook Calendar.

****Postconditions:****

* Outlook Calendar synchronization is disabled in the settings.

****Expected Result:**** Similar to TC_CAL_001, the task deadline appears correctly in the Outlook Calendar, and updates reflect.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** System Testing, Integration Testing

****Test Case Approach:**** Positive

Test Case 3

****Test Case ID:**** TC_CAL_003

****Test Case Title:**** Verify that users can set reminders for tasks via the calendar

****Test Case Description:**** This test case verifies the ability to set reminders for tasks directly through the calendar interface.

****Test Suite:**** Calendar Integration

****Test Priority:** High**

****Preconditions:****

* User has a valid Google Calendar or Outlook Calendar account and synchronization is enabled.

****Test Data:****

* A sample task with a defined deadline.

****Test Steps:****

1. Navigate to the calendar view within the Task Management Tool.
2. Locate the task with the defined deadline.
3. Click the option to set a reminder for the task via the calendar interface.
4. Select a specific reminder time (before the deadline).
5. Confirm that the reminder is successfully set and appears in the user's calendar with appropriate notifications.

****Postconditions:****

* No further actions are required.

****Expected Result:**** The user receives a notification from their calendar provider at the selected reminder time.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** System Testing, Functional Testing**

****Test Case Approach:** Positive**

Test Case 4

****Test Case ID:** TC_CAL_004**

****Test Case Title:** Verify that calendar events update automatically when tasks are changed**

****Test Case Description:** This test case verifies the automatic updating of calendar events when task statuses, deadlines, or other relevant details change within the Task Management Tool.**

****Test Suite:** Calendar Integration**

****Test Priority:** High**

****Preconditions:****

* User has a valid Google Calendar or Outlook Calendar account and synchronization is enabled.

* A task is synced with the user's calendar.

****Test Data:****

* A task with a defined deadline and synchronized with the calendar.

****Test Steps:****

1. Log in to the Task Management Tool and locate the synced task.
2. Modify the task's deadline (e.g., move it earlier or later).
3. Observe the user's calendar for the update.
4. Update the task's status (e.g., from "Todo" to "In Progress" or "Complete").
5. Verify that the calendar event reflects the updated status.

****Postconditions:****

* No specific actions are required.

****Expected Result:**** The changes made to the task within the Task Management Tool automatically update the corresponding calendar event.

****Severity:**** Blocking

****Priority:**** High

****Type of Testing:**** System Testing, Integration Testing

****Test Case Approach:**** Positive, Functionality Checking

Test Case 5

****Test Case ID:**** TC_CAL_005

****Test Case Title:**** Verify that users can manage calendar sync settings within the app

****Test Case Description:**** This test case ensures users can control calendar sync settings and disable synchronization when needed.

****Test Suite:**** Calendar Integration

****Test Priority:**** Medium

****Preconditions:****

* User has a valid Google Calendar or Outlook Calendar account.

****Test Data:**** No test data needed

****Test Steps:****

1. Log in to the Task Management Tool.
2. Navigate to the settings section.
3. Find and access the calendar synchronization settings.
4. Verify that the user can enable or disable Google Calendar or Outlook Calendar synchronization.
5. Toggle the calendar synchronization on and off.

****Postconditions:****

* Calendar sync settings reflect the user's choice.

****Expected Result:**** The user can successfully enable and disable calendar synchronization for each supported provider.

****Severity:**** Minor

****Priority:**** Low

****Type of Testing:**** User Interface Testing, Functional Testing, Acceptance Testing

****Test Case Approach:**** Positive, User Interface Navigation

Data - 36

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Duplication

Feature description -

Users can duplicate tasks or task templates, saving time and effort when creating similar tasks for different projects or recurring activities. Task duplication allows users to reuse existing task structures and configurations, maintaining consistency and reducing manual effort.

Userstory title -

As a user, I want to duplicate tasks so that I can save time when creating similar tasks.

Acceptance criteria -

['Users can duplicate tasks or task templates.', 'The duplicated task retains all original details, including descriptions, assignees, and deadlines.', 'Users can modify the duplicated task if needed.', 'The system clearly indicates that a task has been duplicated.', 'Duplicated tasks are saved and displayed in the task list.']

Generated Test Cases:

Task Management Tool Test Cases: Task Duplication Feature

****Test Case ID:**** TC_TaskDuplication_001

****Test Case Title:**** Verify that users can duplicate tasks.

****Test Case Description:**** This test case verifies the ability of users to duplicate existing tasks within the task management tool.

****Test Suite:**** Task Management

****Test Priority:**** High

****Preconditions:****

- * A user account is logged into the task management tool.
- * An existing task with details (description, assignee, deadline) is present in the task list.

****Test Data:****

- * Existing task with details.

****Test Steps:****

1. Navigate to the task list view.
2. Select the existing task to be duplicated.
3. Click the "Duplicate Task" button (or equivalent action).
4. Verify that a new task is created in the task list, identical to the original task.
5. Check that the duplicated task has a unique identifier or indication that it is a copy.

****Postconditions:****

- * Duplicated task remains visible in the task list.
- * Original task remains unchanged.

****Expected Result:**** A new task is successfully created, containing all original details of the selected task, and clearly identified as a duplicate.

****Severity:**** Blocker

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_TaskDuplication_002

****Test Case Title:**** Verify that duplicated tasks retain all original details.

****Test Case Description:**** This test case verifies that all aspects of the original task, including description,

assignee, and deadlines, are accurately copied into the duplicated task.

****Test Suite:**** Task Management

****Test Priority:**** High

****Preconditions:****

- * A user account is logged into the task management tool.
- * A task with specific details (description, assignee, deadline) is present in the task list.

****Test Data:****

- * Task with a detailed description, specific assignee, and a defined deadline.

****Test Steps:****

1. Navigate to the task list view.
2. Select the existing task with details.
3. Duplicate the task.
4. Open the duplicated task and compare its details (description, assignee, deadline) to the original task.

****Postconditions:****

- * Original task remains unchanged.
- * Duplicated task reflects all original details accurately.

****Expected Result:**** The duplicated task perfectly mirrors the original task in all respects, including descriptions, assigned users, and deadlines.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:** TC_TaskDuplication_003**

****Test Case Title:** Verify that users can modify duplicated tasks.**

****Test Case Description:** This test case ensures that users can make changes to duplicated tasks after creation, allowing for customization and scenario-specific adjustments.**

****Test Suite:** Task Management**

****Test Priority:** High**

****Preconditions:****

- * A user account is logged into the task management tool.
- * A task has been duplicated successfully.

****Test Data:****

- * Duplicated task.

****Test Steps:****

1. Open the duplicated task.
2. Modify one or more attributes of the duplicated task (description, assignee, deadline).
3. Save the changes to the duplicated task.
4. Verify that the changes are reflected in the duplicated task and the original task remains unchanged.

****Postconditions:****

- * Original task remains unaffected by modifications.
- * Modified task reflects the user's changes accurately.

****Expected Result:** Users can successfully modify the duplicated task without impacting the original task.**

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive, Also includes Negative Testing

****Test Case ID:**** TC_TaskDuplication_004

****Test Case Title:**** Verify the system indicates task duplication.

****Test Case Description:**** This test case verifies that the system provides clear visual cues or messages to the user confirming that a task duplication has occurred.

****Test Suite:**** Task Management

****Test Priority:**** Medium

****Preconditions:****

- * A user account is logged into the task management tool.
- * A task is selected.

****Test Data:****

- * Existing task.

****Test Steps:****

1. Select the existing task.
2. Duplicate the task.
3. Observe the system interface for any visual indicators (e.g., success message, notification) or changes that confirm the duplication action.

****Postconditions:****

* Duplicate task appears in the task list.

****Expected Result:**** The system clearly indicates to the user that the task has been successfully duplicated, either through a visual confirmation message or a change in the user interface.

****Severity:**** Minor

****Priority:**** Low

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive, Negative

****Test Case ID:**** TC_TaskDuplication_005

****Test Case Title:**** Verify duplicated task is saved and displayed.

****Test Case Description:**** This test case verifies the system saves the duplicated task correctly and ensures it is correctly displayed in the task list.

****Test Suite:**** Task Management

****Test Priority:**** Medium

****Preconditions:****

* A user account is logged into the task management tool.

****Test Data:****

* Existing task.

****Test Steps:****

1. Select the existing task and duplicate it.
2. Close the task management tool and reopen it.

3. Verify the duplicated task is present in the task list.

****Postconditions:****

* Duplicate task appears in the task list.

****Expected Result:**** The duplicated task persists in the system after closing and reopening the tool and is displayed accurately in the task list.

****Severity:**** Minor

****Priority:**** Low

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Data - 37

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task History

Feature description -

Users can view the history of changes and updates made to tasks, tracking modifications, comments, and other relevant activity. Task history provides a comprehensive audit trail of task-related actions, facilitating

accountability, and transparency in task management.

Userstory title -

As a user, I want to view the history of changes to tasks so that I can track updates and modifications.

Acceptance criteria -

['Users can view a detailed history of changes to tasks.', 'The history includes modifications, comments, and other relevant activity.', 'Users can filter the history by type of change or date.', 'The system provides timestamps for all changes.', 'Task history is accessible from the task details page.']

Generated Test Cases:

Task Management Tool - Task History Test Cases

****Test Suite:**** Feature - Task History

****Project Context:**** Task Management Tool

****User Story:**** As a user, I want to view the history of changes to tasks so that I can track updates and modifications.

Test Case 1

****Test Case ID:**** TC_TASKHISTORY_001

****Test Case Title:**** Verify that a user can view a detailed history of changes to a task.

****Test Case Description:**** This test case verifies that the system displays a detailed history of changes made to a specific task, including modifications, comments, and timestamps.

****Test Priority:** High**

****Preconditions:****

* A task with multiple changes (e.g., modified due date, added comment, assigned to a different user) must exist in the system.

* The user must be authorized to view the task details.

****Test Data:**** Task with a history of changes.

****Test Steps:****

1. Log in as a user with access to the task.
2. Navigate to the task details page.
3. Locate and click the "Task History" section.
4. Verify that the history section displays a chronological list of all changes made to the task.
5. Each change should include the type of modification, the date and time, and the user who made the change.

****Postconditions:****

* The user remains on the task details page.

****Expected Result:**** The task history section displays a comprehensive and accurate record of all changes made to the task.

Test Case 2

****Test Case ID:**** TC_TASKHISTORY_002

****Test Case Title:**** Verify that users can filter task history by type of change.

****Test Case Description:**** This test case verifies the functionality of filtering task history based on the type

of change (e.g., modification, comment addition).

****Test Priority:** High**

****Preconditions:****

* A task with both modifications and comments added must exist.

* The user must be authorized to view the task details.

****Test Data:** Task with both modifications and comments.**

****Test Steps:****

1. Log in as a user with access to the task.
2. Navigate to the task details page.
3. Click the "Task History" section.
4. Utilize the filter option to select "Modifications" and verify that only changes related to task modifications are displayed.
5. Repeat steps 4, using the filter option to select "Comments" and verify that only comments are displayed.

****Postconditions:****

* The user remains on the task details page; the filter selection should be retained.

****Expected Result:** The system displays the filtered task history accurately, showing only modifications or comments based on the user's selection.**

Test Case 3

****Test Case ID:** TC_TASKHISTORY_003**

****Test Case Title:** Verify that users can filter task history by date.**

****Test Case Description:**** This test case verifies the functionality of filtering task history based on date ranges.

****Test Priority:**** High

****Preconditions:****

- * A task with history spanning multiple dates must exist.
- * The user must be authorized to view the task details.

****Test Data:**** Task with history recorded across different dates.

****Test Steps:****

1. Log in as a user with access to the task.
2. Navigate to the task details page.
3. Click the "Task History" section.
4. Utilize the date range filter to select a specific period.
5. Verify that only task history entries within the specified date range are displayed.

****Postconditions:****

- * The user remains on the task details page; the date filter selection should be retained.

****Expected Result:**** The system displays the task history accurately filtered by the selected date range.

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Notifications

Feature description -

Users receive notifications for task updates, comments, mentions, and other relevant activity, keeping them informed and engaged with ongoing task progress. Notifications can be delivered via email, mobile push notifications, or in-app alerts, ensuring timely communication and collaboration.

Userstory title -

As a user, I want to receive notifications for task updates so that I can stay informed about ongoing task progress.

Acceptance criteria -

['Users receive notifications for task updates, comments, mentions, and other relevant activities.',
'Notifications can be delivered via email, mobile push notifications, or in-app alerts.', 'Users can customize notification settings based on preferences.', 'Notifications provide detailed information about the activity.',
'The system logs notification history for future reference.']

Generated Test Cases:

Task Management Tool - Test Cases for Task Notifications

****User Story:**** As a user, I want to receive notifications for task updates so that I can stay informed about

ongoing task progress.

Test Suite: User Notifications

| Test Case ID | Test Case Title | Test Case Description | Test Priority | Preconditions | Test Data |
|----------------|---|---|---------------|---|--|
| TC_Not_001 | Verify that users receive email notifications for task updates | This test case verifies that a user receives an email notification when a task they are assigned to is updated by another user. | High | - User account is created with valid email address. | - A new task is created and assigned to the user. |
| TC_Not_002 | Verify that users receive in-app notifications for task updates | This test case verifies that a user receives an in-app alert when a task they are following is updated. | High | - User account is created and logged in. | - A new task is created and the user subscribes to its updates. |
| TC_Not_003 | Verify that users can customize notification delivery preferences | This test case verifies that users can choose to receive notifications via email, mobile push, or in-app alerts, and that they can adjust these settings at any time. | Medium | - User account is created and logged in. | - Different notification preferences for task updates, comments, and project milestones. |
| TC_Not_004 | Verify that notifications provide sufficient information about the activity | This test case checks if the notification accurately conveys the type, content, and relevant details of the update, including user name, task title, and affected fields. | Medium | - User account is created and logged in. | - A task is updated with specific details (e.g., comments, attachments). |
| Postconditions | Expected Result | Severity | Priority | Type of Testing | Test Case Approach |

---|---|---|---|---|

| User receives notification according to chosen delivery preference.
 User confirms received notification.

| User receives email notification with task details. | Critical | High | Functional Testing | Positive |

| User receives in-app notification with task details. User acknowledges in-app notification. | User sees an in-app alert with details about the task update. | Critical | High | Functional Testing | Positive |

| User successfully changes notification settings.
 Applied settings are reflected in notification preferences.

| User can select desired notification delivery methods. | Major | Medium | Functional Testing | Positive |

| User receives detailed notification containing relevant information. User confirms comprehensiveness of notification. | Notification clearly communicates the type of update, involved users, and affected task fields. |

Major | Medium | Functional Testing | Positive |

****Notes:****

* These test cases are intended as a starting point and can be further expanded or modified based on specific project requirements and test coverage goals.

* You will need to replicate the actions described in the "Test Steps" within your task management tool to validate the expected results.

* Remember to document any deviations from the expected results and report them as defects.

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Archiving

Feature description -

Completed or inactive tasks can be archived or moved to a separate section, decluttering the task list and maintaining focus on active tasks. Task archiving helps users keep their task lists organized and prioritized, without losing access to important historical data.

Userstory title -

As a user, I want to archive completed tasks so that I can keep my task list focused on active tasks.

Acceptance criteria -

['Users can archive completed or inactive tasks.', 'Archived tasks are moved to a separate section for easy access.', 'Users can search and view archived tasks.', 'The system provides an option to restore archived tasks to the active list.', 'Archived tasks retain all original details and history.']

Generated Test Cases:

Test Cases for Task Archiving Feature

****User Story:**** As a user, I want to archive completed tasks so that I can keep my task list focused on active tasks.

****Test Case ID**:** TC-TASK-ARCH-001

****Test Case Title**:** Verify that completed tasks can be archived.

****Test Case Description**:** This test case verifies that a user can successfully archive a completed task and move it to the archived section.

****Test Suite**:** User Interface

****Test Priority**:** Medium

****Preconditions**:**

* A user with access to the task management tool is logged in.

* A task is created and marked as completed.

****Test Data**:**

* A task with a due date in the past and status marked as "Completed"

****Test Steps**:**

1. Navigate to the task list view.
2. Locate the completed task and click on the "Archive" button.
3. Confirm that the task is moved to the archived section.

****Postconditions**:**

* The task is no longer visible in the active task list.

****Expected Result**:** The completed task is successfully archived and appears in the designated archived section.

****Severity**:** Major

****Priority**:** High

****Type of Testing**:** Functional Testing

****Test Case Approach****: Positive

****Test Case ID****: TC-TASK-ARCH-002

****Test Case Title****: Verify that archived tasks can be searched.

****Test Case Description****: This test case verifies that users can effectively search for archived tasks using keywords.

****Test Suite****: User Interface

****Test Priority****: Medium

****Preconditions****:

- * The user is logged in.

- * At least one task is archived.

****Test Data****:

- * Two archived tasks with different keywords in their titles or descriptions.

****Test Steps****:

1. Navigate to the archived tasks section.
2. Enter a keyword related to one of the archived tasks in the search bar.
3. Verify that only the task containing the keyword is displayed in the search results.

****Postconditions****:

- * The search results are relevant to the entered keyword.

****Expected Result****: Searching for a keyword correctly filters archived tasks, displaying only those matching

the criteria.

****Severity**:** Major

****Priority**:** High

****Type of Testing**:** Functional Testing

****Test Case Approach**:** Positive

****Test Case ID**:** TC-TASK-ARCH-003

****Test Case Title**:** Verify that archived tasks retain original details.

****Test Case Description**:** This test case validates that archived tasks preserve all relevant information, including title, description, attachments, due dates, and assigness.

****Test Suite**:** Data Integrity

****Test Priority**:** High

****Preconditions**:**

* A user is logged in.

* A task is created with detailed information like title, description, attachments, due date, and assignee.

****Test Data**:**

* A task with detailed information (title, description, attachments, due date, and assignee)

****Test Steps**:**

1. Mark the task as completed and archive it.
2. Navigate to the archived tasks section and locate the archived task.
3. Verify that all original details (title, description, attachments, due date, and assignee) are still present and accurate.

****Postconditions**:**

- * All original task details are accessible in the archived view.

****Expected Result**:** Archived tasks retain all their original information, ensuring data integrity and historical tracking.

****Severity**:** Critical

****Priority**:** High

****Type of Testing**:** Functional Testing

****Test Case Approach**:** Positive

****Test Case ID**:** TC-TASK-ARCH-004

****Test Case Title**:** Verify that users can restore archived tasks.

****Test Case Description**:** This test case confirms the functionality of restoring archived tasks back to the active list.

****Test Suite**:** User Interface

****Test Priority**:** Medium

****Preconditions**:**

- * A user is logged in.

- * At least one task is archived.

****Test Data**:**

- * An archived task.

****Test Steps**:**

1. Navigate to the archived tasks section.
2. Locate the archived task and click on the "Restore" button.
3. Confirm that the task is moved back to the active task list.

****Postconditions**:**

* The restored task is visible in the active task list.

****Expected Result**:** Restoring an archived task successfully returns it to the active list with its original information intact.

****Severity**:** Major

****Priority**:** High

****Type of Testing**:** Functional Testing

****Test Case Approach**:** Positive

****Test Case ID**:** TC-TASK-ARCH-005

****Test Case Title**:** Verify that archived tasks cannot be edited.

****Test Case Description**:** This test case ensures that users cannot modify archived tasks, maintaining the historical record's integrity.

****Test Suite**:** Data Integrity

****Test Priority**:** Medium

****Preconditions**:**

* A user is logged in.

* A task is archived.

****Test Data**:**

* An archived task.

****Test Steps**:**

1. Navigate to the archived tasks section.
2. Locate the archived task and attempt to edit its title, description, due date, or assignee.
3. Verify that the edit attempts are unsuccessful and the task's information remains unchanged.

****Postconditions**:**

* The archived task remains unchanged after the attempted edits.

****Expected Result**:** Attempts to edit archived tasks are prevented, preserving the historical record as submitted and preventing accidental modifications.

****Severity**:** Major

****Priority**:** High

****Type of Testing**:** Functional Testing

****Test Case Approach**:** Negative

Data - 40

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Guest Access

Feature description -

Users can grant limited access to external collaborators or clients, allowing them to view and collaborate on specific tasks or projects without full platform access. Guest access features provide flexibility in sharing task information and involving external stakeholders in project discussions and updates.

Userstory title -

As a user, I want to grant guest access to external collaborators so that they can view and collaborate on specific tasks.

Acceptance criteria -

['Users can invite external collaborators as guests with limited access.', 'Guests can view and collaborate on specific tasks or projects.', 'The system provides clear distinctions between guest and full access roles.', 'Users can manage and revoke guest access at any time.', 'Guests cannot access sensitive or restricted areas of the platform.']

Generated Test Cases:

Test Cases for "Guest Access" Feature

****Project Name:** Task Management Tool**

****Feature Name:** Guest Access**

****User Story:** As a user, I want to grant guest access to external collaborators so that they can view and collaborate on specific tasks.**

Test Case 1

*** **Test Case ID:** TC_GUEST_INVITE_001**

*** **Test Case Title:** Verify that a user can invite an external collaborator as a guest.**

*** **Test Case Description:** This test case verifies the functionality allowing a user to initiate a guest invitation for an external collaborator to access specific tasks.**

*** **Test Suite:** Guest Access Functionality**

*** **Test Priority:** High**

*** **Preconditions:****

- * A logged-in user with administrator or project manager privileges.

- * An existing task or project requiring guest collaborator access.

*** **Test Data:** Valid email address for external collaborator.**

*** **Test Steps:****

1. Navigate to the task or project requiring guest access.
2. Click the "Invite collaborators" button.
3. Enter the external collaborator's email address in the "Guest" field.
4. Select the desired level of access for the guest (e.g., view-only, comment, edit).
5. Click the "Send Invitation" button.

* **Postconditions:**

- * A notification should be sent to the invited collaborator.

- * The guest should receive an invitation email with a unique link to accept the invitation.

* **Expected Result:** The system successfully generates and sends an invitation to the external collaborator.

Test Case 2

* **Test Case ID:** TC_GUEST_ACCESS_001

* **Test Case Title:** Verify that guests can view and collaborate on specific tasks.

* **Test Case Description:** This test case verifies that a guest user can view task details, participate in discussions, and contribute to project discussions as defined by their access level.

* **Test Suite:** Guest User Roles & Permissions

* **Test Priority:** High

* **Preconditions:**

- * An existing invited guest user with granted access.

- * An accessible task or project for the guest to view and collaborate on.

* **Test Data:** Guest user login credentials. Task content relevant to collaboration.

* **Test Steps:**

1. The guest user logs in using their provided credentials.

2. Access the invited task or project.

3. Verify the guest user can view all task details (description, deadlines, attachments).

4. (Based on access level): Add a comment, make edits to the task, or provide feedback in the designated discussion space.

* **Postconditions:** Guest user exists within the project workspace.

* **Expected Result:** Guests can view and interact with tasks according to their granted access levels.

Test Case 3

* **Test Case ID:** TC_GUEST_ROLES_DISTINCTION_001

* **Test Case Title:** Verify clear distinction between guest and full access roles.

* **Test Case Description:** This test case ensures that the system clearly differentiates between guest access and full platform access, preventing unauthorized access to sensitive data or functionalities.

* **Test Suite:** User Roles & Permissions

* **Test Priority:** High

* **Preconditions:**

- * A logged-in user with both full access and guest access

- * An area with sensitive information or restricted functionalities.

* **Test Data:** No test data needed.

* **Test Steps:**

1. Log in as a user with full access.
2. Access the area with sensitive information or restricted functionalities.
3. Log out and log in as a guest user with limited access.
4. Attempt to access the same area with restricted functionalities.

* **Postconditions:** No data modification or access to restricted functionalities.

* **Expected Result:** Guests cannot access areas or functionalities restricted to full platform access.

Test Case 4

* **Test Case ID:** TC_GUEST_ACCESS_REVOKE_001

* **Test Case Title:** Verify that users can revoke guest access at any time.

* **Test Case Description:** This test case confirms the ability to remove the guest access privilege for external collaborators, ensuring data security and control over project information.

* **Test Suite:** User Management & Guest Access Control

* **Test Priority:** High

* **Preconditions:**

* An existing invited guest user with granted access.

* **Test Data:** Guest user login credentials. The name or email address of the guest user.

* **Test Steps:**

1. Log in as the user who granted guest access.
2. Navigate to the task or project where the guest is invited.
3. Locate the guest user in the list of collaborators.
4. Click on the option to "Revoke Access" or "Remove Guest" for the selected user.
5. Confirm the revocation of access.

* **Postconditions:** Guest user is no longer listed as a collaborator for the task or project.

* **Expected Result:** The system successfully revokes guest access for the specified user, preventing further access to the restricted environment.

Test Case 5

* **Test Case ID:** TC_ACCESS_SENSITIVE_DATA_001

* **Test Case Title:** Verify that guests cannot access sensitive or restricted areas of the platform.

* **Test Case Description:** This test case ensures that guests are prevented from accessing areas containing sensitive user information, financial data, or administrative controls.

* **Test Suite:** Data Security & User Permissions

* **Test Priority:** High

* **Preconditions:**

* An existing invited guest user with limited access.

* Access to a simulated "admin dashboard" or area with sensitive content.

* **Test Data:** No test data needed

* **Test Steps:**

1. Log in as a guest user.

2. Attempt to navigate to the simulated "admin dashboard" or restricted area.

3. Try to access sensitive data within the simulated area.

* **Postconditions:** No data leakage or unauthorized access.

* **Expected Result:** Guests are redirected or receive an appropriate error message, preventing access to sensitive areas of the platform.

Data - 41

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Import/Export

Feature description -

Users can import tasks from external sources or export tasks to other task management tools or file formats.

Import/export capabilities facilitate data migration and integration with other systems, ensuring seamless collaboration and workflow management across platforms.

Userstory title -

As a user, I want to import and export tasks so that I can migrate data between different task management tools.

Acceptance criteria -

['Users can import tasks from external sources in various formats (e.g., CSV, Excel).', 'Users can export tasks to other task management tools or file formats.', 'The system provides clear mapping of fields during import/export.', 'Users can preview imported data before finalizing the process.', 'The system logs import/export activities for future reference.']

Generated Test Cases:

Task Management Tool - Task Import/Export Test Cases

Here are 5 test cases designed to ensure the functionality and usability of the Task Import/Export feature in the Task Management Tool.

****Test Case 1****

* **Test Case ID:** TM-IMP-001

* **Test Case Title:** Verify that tasks can be imported from a CSV file.

* **Test Case Description:** This test case verifies the ability to import tasks from a CSV file, ensuring correct data mapping and successful task creation within the task management tool.

* **Test Suite:** Import Functionality

* **Test Priority:** High

* **Preconditions:**

* A valid CSV file containing task data is available.

- * The user is logged into the Task Management Tool with appropriate permissions.

* **Test Data:**

- * A CSV file with task details (title, description, assignee, due date, etc.)

* **Test Steps:**

1. Navigate to the import section within the Task Management Tool.
2. Select the CSV file containing task data.
3. Review the field mapping and ensure it matches the CSV file structure.
4. Click the "Import" button.
5. Verify the imported tasks are displayed in the Task Management Tool, with data accurately reflected.

* **Postconditions:**

- * Imported tasks are listed within the user's task view.

* **Expected Result:** All tasks from the CSV file are imported successfully into the Task Management Tool, without data corruption or loss.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, Integration Testing

****Test Case 2****

* **Test Case ID:** TM-EXP-001

* **Test Case Title:** Verify that tasks can be exported to a CSV file.

* **Test Case Description:** This test case verifies the ability to export existing tasks from the task management tool to a CSV file, ensuring all relevant data is included and formatted correctly.

* **Test Suite:** Export Functionality

* **Test Priority:** High

* **Preconditions:**

- * There are existing tasks in the task management tool.

- * The user is logged into the Task Management Tool with appropriate permissions.

* **Test Data:**

- * A set of tasks with various details (title, description, assignee, due date, etc.)

* **Test Steps:**

1. Navigate to the export section within the Task Management Tool.
2. Select "CSV" as the desired export format.
3. Specify the tasks to be exported (individual, selected group, or all).
4. Click the "Export" button.
5. Verify a CSV file is downloaded, containing the selected task data (title, description, assignee, due date, etc.).

* **Postconditions:**

- * A CSV file containing the exported tasks is downloaded successfully.

* **Expected Result:** A CSV file containing all selected task data is downloaded, with fields accurately mapped and formatted.

Test Case 3

* **Test Case ID:** TM-IMP-002

* **Test Case Title:** Verify that users can preview imported data before finalizing import.

* **Test Case Description:** This test case ensures the user interface provides a preview of the imported data before finalizing the import process, allowing for data validation and potential correction.

* **Test Suite:** Import Functionality

* **Test Priority:** Medium

* **Preconditions:**

- * A CSV file containing task data is available.

- * The user is logged into the Task Management Tool with appropriate permissions.

* **Test Data:**

- * A CSV file with task data containing potential errors or inconsistencies.

* **Test Steps:**

1. Navigate to the import section within the Task Management Tool.
2. Select the CSV file containing potentially inaccurate data.
3. Click the "Preview" button.
4. Review the previewed data for potential errors or inconsistencies.
5. Click "Import" to finalize the process only if the preview confirms accuracy.

* **Postconditions:**

- * The preview of imported data is displayed clearly.

* **Expected Result:** A preview of the imported data is presented, allowing the user to review and rectify any potential issues before finalizing the import.

Test Case 4

* **Test Case ID:** TM-EXP-002

* **Test Case Title:** Verify that import/export activities are logged

* **Test Case Description:** This test case ensures that the system records import/export actions, providing a history of data transfers for auditing and troubleshooting purposes.

* **Test Suite:** Log functionality

* **Test Priority:** Medium

* **Preconditions:**

- * The user is logged into the Task Management Tool with appropriate permissions.

* **Test Data:**

- * Test data for exporting and importing tasks

* **Test Steps:**

1. Export a list of tasks as a CSV file.

2. Import a different set of tasks from a CSV file.
3. Navigate to the system logs section.
4. Verify that both the export and import activities are logged with relevant details (date, time, file name, file type, number of tasks).

* **Postconditions:**

- * The system log is accessible and populated with import/export records

* **Expected Result:** All import and export operations are successfully logged in the system with specific details for each action.

****Test Case 5****

* **Test Case ID:** TM-IMP-003

* **Test Case Title:** Verify that system handles invalid CSV data gracefully.

* **Test Case Description:** This test case ensures the system can handle invalid or poorly formatted CSV data gracefully, preventing crashes and data corruption.

* **Test Suite:** Import Functionality

* **Test Priority:** Medium

* **Preconditions:**

- * The user is logged into the Task Management Tool with appropriate permissions.

* **Test Data:**

- * A CSV file with intentional errors (missing columns, incorrect data types, etc.)

* **Test Steps:**

1. Navigate to the import section within the Task Management Tool.
2. Select the CSV file with intentional errors.
3. Click the "Import" button.
4. Examine any error messages displayed by the system.

* **Postconditions:**

* The system displays error messages indicating the invalid data.

* **Expected Result:** The system identifies and displays clear error messages, guiding the user to correct the data or choose alternative import methods.

These test cases provide a starting point for comprehensive testing of the Task Import/Export feature. As the development progresses, additional test cases covering edge cases, security considerations, and performance aspects should be added to ensure the feature's robustness and reliability.

Data - 42

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Prioritization

Feature description -

Users can set and adjust task priorities, helping to prioritize work and manage deadlines effectively. Task

prioritization features can include visual indicators, sorting options, and priority-based notifications, providing a clear view of the most critical tasks.

Userstory title -

As a user, I want to set and adjust task priorities so that I can manage my work and deadlines effectively.

Acceptance criteria -

['Users can set and adjust task priorities.', 'Tasks can be sorted and filtered based on priority levels.', 'The system provides visual indicators of task priority.', 'Users receive notifications for high-priority tasks.', 'Priority changes are logged and tracked.']

Generated Test Cases:

Here are five detailed test cases for the "Task Prioritization" feature, following the provided template:

****Test Case 1****

* **Test Case ID:** TC_TASK_PRIORITY_01

* **Test Case Title:** Verify that users can set task priorities.

* **Test Case Description:** This test case verifies the functionality of setting task priorities using the available options (e.g., High, Medium, Low).

* **Test Suite:** Feature - Task Prioritization

* **Test Priority:** High

* **Preconditions:**

- * A user is logged into the Task Management Tool.

- * An empty project or a project with existing tasks is accessible.

* **Test Data:** Sample task data with varying priority levels (High, Medium, Low).

* **Test Steps:**

1. Create a new task.
2. Select a priority level (e.g., High) from the designated dropdown or selection field.

3. Save the task.
4. Verify that the task displays the selected priority visually (e.g., color-coding, icon).
5. Navigate to existing tasks within the project.
6. Identify the task and confirm its priority level is displayed correctly.

* **Postconditions:**

- * The task remains in the system with the chosen priority level.

* **Expected Result:** The task will be created or updated with the chosen priority level, and its priority will be clearly indicated visually.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

****Test Case 2****

* **Test Case ID:** TC_TASK_PRIORITY_02

* **Test Case Title:** Verify that users can adjust task priorities.

* **Test Case Description:** This test case verifies the functionality of modifying an existing task's priority level.

* **Test Suite:** Feature - Task Prioritization

* **Test Priority:** High

* **Preconditions:**

- * User is logged into the Task Management Tool.

- * A task with a predefined priority level exists.

* **Test Data:** Sample task with an initial priority level.

****Test Steps:****

1. Open the task with a predefined priority level.
2. Change the priority level to a different option (e.g., from "Medium" to "High").
3. Save the changes.
4. Verify the updated priority level is reflected visually in the task display.

****Postconditions:****

- * The task priority level is updated accordingly.

****Expected Result:**** The task priority will successfully be updated, and the visual representation of priority will be adjusted.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case 3****

****Test Case ID:**** TC_TASK_PRIORITY_03

****Test Case Title:**** Verify that tasks can be sorted by priority level.

****Test Case Description:**** This test case verifies the sorting functionality of tasks based on their priority level.

****Test Suite:**** Feature - Task Prioritization

****Test Priority:**** High

****Preconditions:****

- * User is logged into the Task Management Tool.
- * Project contains tasks with varying priority levels.

****Test Data:**** Sample tasks with different priority levels.

****Test Steps:****

1. Access the task list for the project.
2. Verify that the default sort order is not based on priority.
3. Select or click on the "Priority" sorting option.
4. Observe that the task list is now sorted with high-priority tasks at the top, descending to low-priority tasks at the bottom.

* **Postconditions:**

* The task list remains sorted by priority.

* **Expected Result:** Tasks will be displayed in descending order of priority after sorting.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

****Test Case 4****

* **Test Case ID:** TC_TASK_PRIORITY_04

* **Test Case Title:** Verify that tasks can be filtered by priority level.

* **Test Case Description:** This test case verifies the functionality of filtering tasks based on specific priority levels.

* **Test Suite:** Feature - Task Prioritization

* **Test Priority:** High

* **Preconditions:**

* User is logged into the Task Management Tool.

* Project contains tasks with varying priority levels.

* **Test Data:** Sample tasks with different priority levels.

* **Test Steps:**

1. Access the task list for the project.
2. Click or select the task filter option.
3. Select a specific priority level (e.g., "High") from the filter dropdown.
4. Verify that only tasks with the chosen priority level are displayed in the list.

* **Postconditions:**

- * The task list retains the filtered state.

* **Expected Result:** The task list will dynamically display only tasks that match the selected priority level.

* **Severity:** Major

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 5

* **Test Case ID:** TC_TASK_PRIORITY_05

* **Test Case Title:** Verify that priority changes are logged and tracked.

* **Test Case Description:** This test case confirms that modifications to task priorities are recorded and traceable.

* **Test Suite:** Feature - Task Prioritization

* **Test Priority:** Medium

****Preconditions:****

- * User is logged into the Task Management Tool.

- * A task exists with an initial priority level.

****Test Data:**** Sample task with initial priority level.

****Test Steps:****

1. Open the task and change its priority level.
2. Save the changes and log out.
3. Log back into the system.
4. Open the task again.
5. Access the task history or audit log.
6. Verify that the original priority level and the changed priority level are recorded with timestamps.

****Postconditions:****

- * The task history or audit log is updated correctly.

****Expected Result:**** The task history should accurately document the changes made to the task's priority level, including the original value, the new value, and the timestamps of the modifications.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Collaboration

Feature description -

Users can collaborate on tasks with team members, including assigning tasks to others, sharing updates, and communicating through comments or messages. Collaboration features aim to enhance teamwork and coordination on tasks and projects.

Userstory title -

As a user, I want to collaborate on tasks with my team so that we can work together more effectively and stay updated on task progress.

Acceptance criteria -

['Users can assign tasks to team members.', 'Users can share updates and communicate through comments or messages.', 'Task updates and comments are visible to assigned team members.', 'Users receive notifications for task updates and comments.', 'The system provides a clear view of task collaboration history.']

Generated Test Cases:

Task Management Tool - Test Cases for Task Collaboration Feature

****User Story Title:**** As a user, I want to collaborate on tasks with my team so that we can work together more effectively and stay updated on task progress.

****Test Case 1****

****Test Case ID:** TC_TASK_COLLAB_001**

****Test Case Title:** Verify that users can assign tasks to team members.**

****Test Case Description:** This test case verifies the ability to assign tasks to specific team members within the task management tool.**

****Test Suite:** Task Collaboration**

****Test Priority:** High**

****Preconditions:****

- * A user account with administrative privileges is logged in.
- * At least two user accounts with team member roles are created.
- * A new task exists in the system.

****Test Data:****

- * Task Title: "Develop User Interface"
- * Assigned To: "Team Member 2"

****Test Steps:****

1. Open the task details page for the new task.
2. Click on the "Assign To" field.
3. Select "Team Member 2" from the dropdown list of available team members.
4. Click the "Save" button to assign the task.
5. Verify that "Team Member 2" is now listed as the assigned user for the task.

****Postconditions:****

- * Task remains assigned to "Team Member 2".

****Expected Result:****

The task should be successfully assigned to the selected team member.

****Severity:** Blocker**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case 2****

****Test Case ID:** TC_TASK_COLLAB_002**

****Test Case Title:** Verify that users can share updates and communicate through comments or messages.**

****Test Case Description:** This test case verifies the functionality of sharing updates and communicating through comments or messages on a task.**

****Test Suite:** Task Collaboration**

****Test Priority:** High**

****Preconditions:****

* A user account is logged in.

* A task exists with an assigned team member.

****Test Data:****

* Task Title: "Finalize Documentation"

* User Name: "Tester User"

* Message Content: "Meeting will be held tomorrow to discuss final documentation revisions."

****Test Steps:****

1. Open the task details page for the task "Finalize Documentation".
2. Click on the "Add Comment" (or "Update Task Status") button.
3. Enter the message "Meeting will be held tomorrow to discuss final documentation revisions."
4. Click the "Post Comment" (or "Save Update") button.
5. Verify that the message is displayed in the comment section of the task.

****Postconditions:****

* Comment remains visible on the task page.

****Expected Result:****

The user should be able to successfully add a comment to the task.

****Severity:** Major**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case 3****

****Test Case ID:** TC_TASK_COLLAB_003**

****Test Case Title:** Verify that task updates and comments are visible to assigned team members.**

****Test Case Description:** This test case verifies that assigned team members can see task updates and comments.**

****Test Suite:** Task Collaboration**

****Test Priority:** High**

****Preconditions:****

* Two user accounts are logged in: a user who created a task and an assigned team member.

* A task exists with an assigned team member.

****Test Data:****

* Assigned To: "Team Member 2"

* Comment Content: "Task is progressing well, will be ready for review by Friday."

****Test Steps:****

1. The user who created the task adds a comment "Task is progressing well, will be ready for review by Friday."

2. Log in as the "Team Member 2".

3. Open the task details page for the task.

4. Verify that the comment "Task is progressing well, will be ready for review by Friday." is visible.

****Postconditions:****

* Comment remains visible to the assigned team member.

****Expected Result:****

The assigned team member should be able to see the comment added by the task creator.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case 4****

****Test Case ID:**** TC_TASK_COLLAB_004

****Test Case Title:**** Verify that users receive notifications for task updates and comments.

****Test Case Description:**** This test case verifies that users receive proper notifications for updates and comments on tasks they are assigned to or interested in.

****Test Suite:**** Task Collaboration

****Test Priority:**** High

****Preconditions:****

* Two user accounts are logged in: a user who created a task and "Team Member 2" who is assigned to it.

* A task exists with an assigned team member and notification settings enabled.

****Test Data:****

* Notification settings enabled for "Team Member 2"

* Comment Content: "Updates on task requirements, please review attached document."

****Test Steps:****

1. The user who created the task adds a comment "Updates on task requirements, please review attached document."
2. Verify that "Team Member 2" receives a notification about the comment.
3. (Optional) Monitor notification history to ensure accuracy and completeness.

****Postconditions:****

*The notification remains present in the "Team Member 2's" notification history.

****Expected Result:****

"Team Member 2" should receive a timely and accurate notification about the added comment.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing, Usability Testing**

****Test Case Approach:** Positive**

****Test Case 5****

****Test Case ID:** TC_TASK_COLLAB_005**

****Test Case Title:** Verify that the system provides a clear view of task collaboration history.**

****Test Case Description:** This test case verifies the clarity and comprehensiveness of the task collaboration history, including who made what changes and when.**

****Test Suite:** Task Collaboration**

****Test Priority:** Medium**

****Preconditions:****

- * A user creates a task.
- * Multiple users leave comments and make updates on the task.

****Test Data:****

- * Comments and updates with varying timestamps.

****Test Steps:****

1. Navigate to the task details page.
2. Select the "History" or "Activity Log" section.
3. Review the displayed history of changes, including comments, updates, and assignments.
4. Verify that the history is chronologically ordered.
5. Verify that each entry clearly identifies the user who made the change and the date/time.

****Postconditions:****

- * The history remains accessible on the task page.

****Expected Result:****

The system should provide a clear, chronological, and user-identifiable history of all task collaboration activities.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Usability Testing

****Test Case Approach:**** Positive

Data - 44

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Tracking

Feature description -

Users can track the progress of tasks, view task statuses, and monitor deadlines. The task tracking feature aims to provide visibility into task progress and ensure timely completion of tasks.

Userstory title -

As a user, I want to track the progress of tasks so that I can monitor their status and ensure timely completion.

Acceptance criteria -

['Users can view task statuses.', 'Users can track task progress and deadlines.', 'Tasks are updated in real-time.', 'System provides visual indicators for task progress.', '']

Generated Test Cases:

Here are 5 test cases for the "Task Tracking" feature, following the provided template:

****Test Case 1:****

| Field | Description |
|-------|-------------|
| ----- | ----- |

| | | |
|-----------------------|---|--|
| Test Case ID | TC_TASK_TRACK_01 | |
| Test Case Title | Verify that users can view task statuses | |
| Test Case Description | This test case verifies if the system displays the correct status of a task. It will create a task, change its status, and then check if the displayed status matches the updated one. | |
| Test Suite | Task Tracking | |
| Test Priority | Medium | |
| Preconditions | * A user is logged in to the system. * A task has been created. | |
| Test Data | Task data: Title: "Test Task", Description: "Test Task Description" | |
| Test Steps | 1. Navigate to the task list view. 2. Identify a task. 3. Observe the displayed status of the task. 4. Modify the task status to "In Progress." 5. Observe if the displayed status is updated to "In Progress". | |
| Postconditions | * System remains in the task list view. * Task updates are saved. | |
| Expected Result | The displayed status of the task should be updated to "In Progress" after modification. | |
| Severity | Critical | |
| Priority | High | |
| Type of Testing | Functional Testing | |
| Test Case Approach | Positive | |

****Test Case 2:****

| | | |
|-----------------------|--|--|
| Field | Description | |
| ----- ----- ----- | | |
| Test Case ID | TC_TASK_TRACK_02 | |
| Test Case Title | Verify that users can track task progress | |
| Test Case Description | This test case verifies if the task progress indicator accurately reflects the task's completion level. It will create a task, complete a portion of the task, and then check if the progress indicator displays the correct percentage. | |

| | | |
|--------------------|--|--|
| Test Suite | Task Tracking | |
| Test Priority | Medium | |
| Preconditions | * A user is logged in to the system. * A task has been created with a set percentage of completion. | |
| Test Data | Task data: Title: "Test Task", Description: "Test Task Description", Completion: 50% | |
| Test Steps | 1. Navigate to the task details view. 2. Observe the progress indicator displayed for the task. 3. Simulate completing 25% of the task. 4. Observe if the progress indicator updates to reflect the new completion percentage. | |
| Postconditions | * System remains on the task details view. * Task updates are saved. | |
| Expected Result | The progress indicator should display 75% after completing 25% of the task. | |
| Severity | Critical | |
| Priority | High | |
| Type of Testing | Functional Testing | |
| Test Case Approach | Positive | |

****Test Case 3:****

| | | |
|-----------------------|---|--|
| Field | Description | |
| ----- ----- ----- | | |
| Test Case ID | TC_TASK_TRACK_03 | |
| Test Case Title | Verify that task deadlines are tracked and visible | |
| Test Case Description | This test case verifies that the system accurately displays and tracks task deadlines. | |
| Test Suite | Task Tracking | |
| Test Priority | Medium | |
| Preconditions | * A user is logged in to the system. * A task has been created with a set deadline. | |
| Test Data | Task data: Title: "Test Task", Description: "Test Task Description", Deadline: 2023-12-25 | |
| Test Steps | 1. Navigate to the task details view. 2. Observe the task deadline displayed. 3. Verify | |

| | | |
|---|--|--|
| that the deadline is displayed correctly. | | |
| Postconditions * System remains on the task details view. | | |
| Expected Result The system should accurately display the task deadline of 2023-12-25. | | |
| Severity Major | | |
| Priority High | | |
| Type of Testing Functional Testing | | |
| Test Case Approach Positive | | |

****Test Case 4:****

| | | |
|--|--|--|
| Field Description | | |
| ----- ----- | | |
| Test Case ID TC_TASK_TRACK_04 | | |
| Test Case Title Verify that real-time task updates are reflected | | |
| Test Case Description This test case verifies that changes to a task's status or progress are reflected in real-time. | | |
| Test Suite Task Tracking | | |
| Test Priority High | | |
| Preconditions * A user is logged in to the system. * A task has been created. | | |
| Test Data Task data: Title: "Test Task", Description: "Test Task Description" | | |
| Test Steps 1. Log in two users, User A and User B. 2. User A creates a task. 3. User B refreshes the task list view. 4. User A changes the task status ("In Progress"). 5. User B observes the updated status. | | |
| Postconditions * The task list view is updated for both users. * Task updates are saved. | | |
| Expected Result User B should see the updated task status as "In Progress" immediately after User A makes the change. | | |

| | | |
|--------------------|---------------------------------------|--|
| Severity | Critical | |
| Priority | High | |
| Type of Testing | Functionality and Performance Testing | |
| Test Case Approach | Positive | |

****Test Case 5:****

| | | |
|-----------------------|---|--|
| Field | Description | |
| ----- ----- ----- | | |
| Test Case ID | TC_TASK_TRACK_05 | |
| Test Case Title | Verify visual indicators for task progress | |
| Test Case Description | This test case verifies that the visual representation of task progress (e.g., a progress bar) accurately reflects the task's completion level. | |
| Test Suite | Task Tracking | |
| Test Priority | Medium | |
| Preconditions | * A user is logged in to the system. * A task has been created with a specific progress level. | |
| Test Data | Task data: Title: "Test Task", Description: "Test Task Description", Completion: 80% | |
| Test Steps | 1. Navigate to the task's details view. 2. Observe the visual indicator (e.g., progress bar) for task progress. 3. Verify that the progress bar corresponds to 80%. | |
| Postconditions | * System remains on the task details view. * Task updates are saved. | |
| Expected Result | The progress bar should be 80% filled, visually representing the task's progress. | |
| Severity | Major | |
| Priority | High | |
| Type of Testing | Functionality Testing | |
| Test Case Approach | Positive | |

These test cases address each acceptance criterion and provide guidance for testing the "Task Tracking" feature in the Task Management Tool. Remember to adjust test data, scenarios, and details according to your specific project requirements and specifications.

Data - 45

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Notifications

Feature description -

Users receive notifications for task-related events, such as new tasks, updates, comments, and upcoming deadlines. The notifications aim to keep users informed and engaged with their tasks.

Userstory title -

As a user, I want to receive notifications for task-related events so that I can stay informed and manage my tasks effectively.

Acceptance criteria -

['Users receive notifications for new tasks.', 'Users receive notifications for task updates and comments.',
'Users receive reminders for upcoming deadlines.', 'Notification settings can be customized by users.', '']

Generated Test Cases:

Test Cases for Task Management Tool - Task Notifications Feature

****User Story:**** As a user, I want to receive notifications for task-related events so that I can stay informed and manage my tasks effectively.

****Test Case ID:**** TMT-NC-001

****Test Case Title:**** Verify that users receive notifications for new tasks.

****Test Case Description:**** This test case aims to verify that users receive notifications when a new task is created and assigned to them.

****Test Suite:**** Task Notification Suite

****Test Priority:**** High

****Preconditions:****

- * A user is registered and logged into the Task Management Tool.
- * The user has notification settings enabled for new tasks.
- * An admin user has created a new task and assigned it to the test user.

****Test Data:****

- * New task details (title, description, deadline, etc.)
- * User email address

****Test Steps:****

1. An admin user creates a new task and assigns it to the test user.
2. The notification settings for the test user are checked to confirm they are enabled for new tasks.

3. The test user should receive a notification about the newly assigned task via their preferred notification method (email, push notification, etc.).

****Postconditions:****

- * The test user acknowledges the notification.

****Expected Result:**** The test user receives a notification about the newly assigned task.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TMT-NC-002

****Test Case Title:**** Verify that users receive notifications for task updates.

****Test Case Description:**** This test case evaluates if users receive notifications when task details are changed by another user.

****Test Suite:**** Task Notification Suite

****Test Priority:**** High

****Preconditions:****

- * A user is logged into the Task Management Tool.

- * Notification settings are enabled for task updates.

- * A task exists with the user involved.

****Test Data:****

- * Task ID

* Modified task details (due date, priority, description, etc.)

****Test Steps:****

1. The test user logs into the Task Management Tool.
2. Another user modifies the details of the task assigned or involved with the test user (e.g., changes the due date).
3. The test user should receive a notification informing them about the task update.

****Postconditions:****

- * The test user acknowledges the notification.

****Expected Result:**** The test user receives a notification about the task update.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TMT-NC-003

****Test Case Title:**** Verify that users receive notifications for task comments.

****Test Case Description:**** This test case verifies if users receive notifications when new comments are added to their tasks.

****Test Suite:**** Task Notification Suite

****Test Priority:**** High

****Preconditions:****

- * A user is logged into the Task Management Tool.
- * Notification settings are enabled for task comments.
- * A task exists with the user involved.

****Test Data:****

- * Task ID
- * Comment content

****Test Steps:****

1. The test user logs into the Task Management Tool.
2. Another user adds a comment to the test user's task.
3. The test user should receive a notification informing them about the new comment.

****Postconditions:****

- * The test user acknowledges the notification.

****Expected Result:**** The test user receives a notification about the new comment.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TMT-NC-004

****Test Case Title:**** Verify that users receive reminders for upcoming deadlines.

****Test Case Description:**** This test case confirms if users receive timely reminders for their upcoming task deadlines.

****Test Suite:**** Task Notification Suite

****Test Priority:**** High

****Preconditions:****

- * A user is registered and logged into the Task Management Tool.
- * The user has a task with an upcoming deadline.
- * Notification settings are enabled for task reminders.

****Test Data:****

- * Task with a specific upcoming deadline

****Test Steps:****

1. The user creates or is assigned a task with a future due date.
2. Ensure the task's reminder settings are activated and configured (e.g., timeframe, frequency).
3. Allow sufficient time for the reminder notification to trigger based on settings.
4. The user should receive a reminder notification about the upcoming deadline before it expires.

****Postconditions:****

- * The user acknowledges the reminder notification.

****Expected Result:**** The user receives a timely reminder notification for the task's approaching deadline.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:** TMT-NC-005**

****Test Case Title:** Verify that notification settings can be customized by users.**

****Test Case Description:** This test case assesses if users can personalize their notification preferences for various task events.**

****Test Suite:** Task Notification Suite**

****Test Priority:** Medium**

****Preconditions:****

* A user is logged into the Task Management Tool.

****Test Data:****

* Various notification settings options (email, push notifications, frequency, type of events)

****Test Steps:****

1. Navigate to the user's profile settings or notification preferences section.
2. Modify the notification settings for at least three different events (new tasks, updates, comments, deadlines).
3. Change the notification delivery method (e.g., email vs. push notifications) for one event.
4. Use the test account to attempt receiving those events and verify if notifications are received according to the chosen settings.

****Postconditions:****

* User returns to the dashboard or previous view.

****Expected Result:** Users can successfully customize their notification settings for specific events and delivery methods.**

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional Testing, Acceptance Testing**

****Test Case Approach:** Positive**

Data - 46

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Categorization

Feature description -

Users can categorize tasks into different groups or projects for better organization and management. Task categorization aims to help users organize tasks by type, priority, or project.

Userstory title -

As a user, I want to categorize tasks into different groups or projects so that I can organize and manage my tasks more effectively.

Acceptance criteria -

['Users can create and assign tasks to different categories or projects.', 'Users can view tasks grouped by categories or projects.', 'Tasks can be moved between categories or projects.', 'Category or project information is accurately reflected in task views.', "']

Generated Test Cases:

Task Management Tool - Test Cases for Task Categorization

****User Story:**** As a user, I want to categorize tasks into different groups or projects so that I can organize and manage my tasks more effectively.

****Acceptance Criteria:****

- * Users can create and assign tasks to different categories or projects.
- * Users can view tasks grouped by categories or projects.
- * Tasks can be moved between categories or projects.
- * Category or project information is accurately reflected in task views.

****Test Case 1:****

****Test Case ID:**** TC_TASK_CAT_001

****Test Case Title:**** Verify that a user can create a new category/project.

****Test Case Description:**** This test case verifies the functionality for creating a new category or project within the task management tool.

****Test Suite:**** Feature - Task Categorization

****Test Priority:**** High

****Preconditions:****

- * User is logged in.
- * No existing categories or projects are present.

****Test Data:****

- * Category/Project Name: "New Category" (or similar)

****Test Steps:****

1. Navigate to the task categorization section of the application.
2. Click on the "Create Category/Project" button.
3. Enter the name "New Category" (or chosen name).
4. Click on the "Create" button to finalize the creation.
5. Validate that the newly created category "New Category" is displayed in the list.

****Postconditions:****

- * The "New Category" category exists in the application.

****Expected Result:**** The "New Category" category is successfully created and displayed in the task categorization view.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case 2:****

****Test Case ID:**** TC_TASK_CAT_002

****Test Case Title:**** Verify that a user can assign a task to a category/project.

****Test Case Description:**** This test case verifies the functionality for assigning a new task to an existing

category or project.

****Test Suite:**** Feature - Task Categorization

****Test Priority:**** High

****Preconditions:****

- * User is logged in.
- * At least one category/project exists.
- * A new task is created.

****Test Data:****

- * Existing category/project name: "New Category" (created in TC_TASK_CAT_001)
- * Task description: "Test Task"

****Test Steps:****

1. Navigate to the task list section of the application.
2. Create a new task with the description "Test Task".
3. In the task details view, select the "New Category" category/project from the dropdown list.
4. Save the task.
5. Validate that the task "Test Task" is listed under the "New Category" category/project.

****Postconditions:****

- * Task "Test Task" is assigned to "New Category" category/project.

****Expected Result:**** The task "Test Task" is successfully assigned to the "New Category" category/project and reflected in task lists and views accordingly.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****... (Continue with 3 more test cases providing different scenarios)****

Data - 47

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Search

Feature description -

Users can search for tasks based on various criteria, such as task name, description, category, priority, or due date. The task search feature aims to help users quickly find specific tasks within their project or task list.

Userstory title -

As a user, I want to search for tasks based on various criteria so that I can quickly find specific tasks within my project or task list.

Acceptance criteria -

['Users can search for tasks by name.', 'Users can search for tasks by description.', 'Users can filter search results by category, priority, or due date.', 'Search results are accurate and relevant.', '']

Generated Test Cases:

Okay, here are 5 test cases designed to cover the acceptance criteria of the "Task Search" feature in your Task

Management Tool:

Test Case 1

* **Test Case ID:** TCS-TASKSEARCH-001

* **Test Case Title:** Verify that users can search for tasks by name.

* **Test Case Description:** This test case verifies the functionality of searching for tasks by their name using the search bar. It will confirm that tasks with matching names are displayed in the search results.

* **Test Suite:** Task Management - Search

* **Test Priority:** High

* **Preconditions:**

- * A user account with appropriate permissions is logged in.

- * At least three tasks with distinct names exist in the system

* **Test Data:** Task names containing different keywords.

* **Test Steps:**

1. Navigate to the task list view.
2. Enter a specific task name in the search bar.
3. Click the search button.
4. Verify that the search results display only tasks with the matching name.

* **Postconditions:**

- * Search bar will be cleared after the test.

* **Expected Result:** The search results accurately display only tasks whose name matches the entered keyword.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

****Test Case 2****

* **Test Case ID:** TCS-TASKSEARCH-002

* **Test Case Title:** Verify that users can search for tasks by description.

* **Test Case Description:** This test case verifies the functionality of searching for tasks by their description using the search bar.

* **Test Suite:** Task Management - Search

* **Test Priority:** High

* **Preconditions:**

- * A user account with appropriate permissions is logged in.

- * At least three tasks with distinct descriptions exist in the system.

* **Test Data:** Task descriptions containing different keywords.

* **Test Steps:**

1. Navigate to the task list view.
2. Enter a specific task description (or part of it) in the search bar.
3. Click the search button.
4. Verify that the search results display only tasks with descriptions matching the entered keyword.

* **Postconditions:**

- * Search bar will be cleared after the test.

* **Expected Result:** The search results accurately display only tasks whose description contains the entered keyword.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

****Test Case 3****

* **Test Case ID:** TCS-TASKSEARCH-003

* **Test Case Title:** Verify that users can filter search results by category.

* **Test Case Description:** This test case verifies if the search results can be filtered by specific task categories.

* **Test Suite:** Task Management - Search

* **Test Priority:** High

* **Preconditions:**

- * A user account with appropriate permissions is logged in.

- * At least three tasks are assigned to different categories within the system.

* **Test Data:** Different task categories.

* **Test Steps:**

1. Navigate to the task list view.
2. Use the search bar to enter any general keywords (to get partial results).
3. Click on a specific category filter option.
4. Verify that the search results display only tasks belonging to the selected category.

* **Postconditions:**

- * Filter selection will likely be persistent. You may need to clear it for subsequent tests.

* **Expected Result:** The search results are filtered to display only tasks belonging to the selected category.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

Test Case 4

* **Test Case ID:** TCS-TASKSEARCH-004

* **Test Case Title:** Verify that users can filter search results by priority.

* **Test Case Description:** This test case verifies the functionality of filtering search results by task priority levels.

* **Test Suite:** Task Management - Search

* **Test Priority:** Medium

* **Preconditions:**

- * A user account with appropriate permissions is logged in.

- * At least three tasks with different priority levels (e.g., High, Medium, Low) exist in the system.

* **Test Data:** Task priority levels (e.g., "High," "Medium," "Low").

* **Test Steps:**

1. Navigate to the task list view.
2. Enter any general keywords in the search bar (to get partial results).
3. Click on a specific priority filter option.
4. Verify that the search results display only tasks with the selected priority level.

* **Postconditions:**

- * Filter selection will likely be persistent. You may need to clear it for subsequent tests.

* **Expected Result:** The search results are filtered to display only tasks with the selected priority level.

* **Severity:** Major

* **Priority:** High

* **Type of Testing:** Functional Testing

****Test Case 5****

* **Test Case ID:** TCS-TASKSEARCH-005

* **Test Case Title:** Verify that users can filter search results by due date.

* **Test Case Description:** This test case verifies the functionality of filtering search results by task due dates.

* **Test Suite:** Task Management - Search

* **Test Priority:** Medium

* **Preconditions:**

- * A user account with appropriate permissions is logged in.

- * At least three tasks with different due dates exist in the system.

* **Test Data:** Different task due dates in various formats (e.g. YYYY-MM-DD).

* **Test Steps:**

1. Navigate to the task list view.
2. Use the search bar to enter any general keywords.
3. Select a due date filter option (e.g., "Today," "This week," "Next month").
4. Verify that the search results display only tasks with due dates matching the selected filter.
5. Test various date ranges.

* **Postconditions:**

- * Filter selection will likely be persistent. You may need to clear it for subsequent tests.

* **Expected Result:** The search results are accurately filtered to display tasks with due dates within the selected filter range.

* **Severity:** Major

* **Priority:** High

* **Type of Testing:** Functional Testing

Let me know if you have any more questions.

Project name -

Task Management Tool

Project description -

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

Feature name -

Task Collaboration

Feature description -

Users can collaborate on tasks by adding comments, attaching files, and sharing tasks with other users. Task collaboration aims to enhance team communication and productivity.

Userstory title -

As a user, I want to collaborate on tasks by adding comments, attaching files, and sharing tasks with other users so that I can work more effectively with my team.

Acceptance criteria -

['Users can add comments to tasks.', 'Users can attach files to tasks.', 'Users can share tasks with other users.', 'Task collaboration features work seamlessly and enhance team communication.', '']

Generated Test Cases:

Test Cases for Task Management Tool - Task Collaboration Feature

****Project Context:**** Task Management Tool - A web-based application for managing individual and team tasks.

****Feature:**** Task Collaboration

****User Story:**** As a user, I want to collaborate on tasks by adding comments, attaching files, and sharing

tasks with other users so that I can work more effectively with my team.

****Acceptance Criteria:****

- * Users can add comments to tasks.
- * Users can attach files to tasks.
- * Users can share tasks with other users.
- * Task collaboration features work seamlessly and enhance team communication.

Test Case 1

****Test Case ID:**** TC_TaskCollaboration_001

****Test Case Title:**** Verify that users can add comments to tasks.

****Test Case Description:**** This test case verifies the functionality of adding comments to a task and ensures the comment is visible to other users authorized to access the task.

****Test Suite:**** Task Collaboration

****Test Priority:**** High

****Preconditions:****

- * A user is logged into the system.
- * A new task has been created.
- * A second user account exists.

****Test Data:****

- * Comment text "Hello, team! Starting work on this task."

****Test Steps:****

1. Navigate to the newly created task.

2. Enter the comment text into the designated comment field.
3. Click the "Save Comment" button.
4. Verify that the comment appears under the task details.
5. Log in as the second user and access the same task.
6. Verify that the comment is visible to the second user.

****Postconditions:****

* Comment remains visible in task details.

* The comment history is maintained.

****Expected Result:**** The comment is successfully added and displayed to authorized users.

****Severity:** Major ****

****Priority:** High**

****Type of Testing:** Functional, System, User Acceptance**

****Test Case Approach:** Positive**

Test Case 2

****Test Case ID:** TC_TaskCollaboration_002**

****Test Case Title:** Verify that users can attach files to tasks.**

****Test Case Description:**** This test case verifies the functionality of attaching files to a task and ensures the file is accessible to other authorized users.

****Test Suite:** Task Collaboration**

****Test Priority:** High**

****Preconditions:****

- * A user is logged into the system.
- * A new task has been created.
- * A local file exists on the user's computer.

****Test Data:****

- * A local file (e.g., document.pdf, image.png)

****Test Steps:****

1. Navigate to the newly created task.
2. Click the "Attach File" button.
3. Select the local file from the file directory.
4. Click the "Upload" button.
5. Verify that the file name appears in the list of attached files.
6. Log in as another authorized user and access the same task.
7. Verify that the attached file is visible and accessible to the second user.

****Postconditions:****

- * Attached file remains accessible within task details.

****Expected Result:**** The file is successfully uploaded and displayed to authorized users.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional, System, User Acceptance

****Test Case Approach:**** Positive

Test Case 3

****Test Case ID:** TC_TaskCollaboration_003**

****Test Case Title:** Verify that users can share tasks with other users.**

****Test Case Description:** This test case verifies the functionality of sharing a task with other users and ensures the shared users can access the task details and participate in collaboration.**

****Test Suite:** Task Collaboration**

****Test Priority:** High**

****Preconditions:****

* Two user accounts exist: the "owner" user and the "shared" user.

* A new task has been created by the "owner" user.

****Test Data:****

* Shared user's username

****Test Steps:****

1. The "owner" user navigates to the newly created task.
2. The "owner" user clicks the "Share Task" button.
3. The "owner" user enters the "shared" user's username in the designated field.
4. The "owner" user selects the desired access level (e.g., viewer, editor).
5. The "owner" user clicks the "Share" button.
6. The "shared" user logs in and accesses the task.

****Postconditions:****

* The shared user can access the task details.

****Expected Result:**** The task is successfully shared with the specified user, and they can access and participate in the task collaboration.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional, System, User Acceptance

****Test Case Approach:**** Positive

Test Cases 4 & 5 (Examples)

Continue generating test cases in a similar format, covering the remaining acceptance criteria:

* ****Test Case 4:**** Verify that task collaboration features seamlessly enhance team communication (e.g., notifying team members when a comment is added, task updates are made, etc.)

* ****Test Case 5:**** Verify handling of edge cases and negative scenarios (e.g., attempting to share a task with an unauthorized user, adding an invalid file type, encountering errors while uploading a file, etc.).

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Course Creation Tools

Feature description -

Instructors are equipped with intuitive tools to develop comprehensive courses encompassing various multimedia elements like videos, presentations, quizzes, and assignments. These tools empower instructors to structure content effectively, ensuring an engaging and informative learning experience for students.

Userstory title -

As an instructor, I want intuitive course creation tools so that I can easily develop comprehensive courses.

Acceptance criteria -

['Instructors can create courses using videos, presentations, quizzes, and assignments.', 'The tools are user-friendly and require minimal technical skills.', 'Courses can be previewed before publishing.', 'Instructors can save courses as drafts.', 'Courses can be edited post-publishing.']

Generated Test Cases:

Test Cases for Online Learning Platform - Course Creation Tools

****User Story Title:**** As an instructor, I want intuitive course creation tools so that I can easily develop comprehensive courses.

****Test Case ID:**** OLP-CC-001

****Test Case Title:**** Verify that instructors can create courses using videos, presentations, quizzes, and assignments.

****Test Case Description:**** This test case verifies the functionality of adding various multimedia elements like videos, presentations, quizzes, and assignments to a new course.

****Test Suite:**** Course Creation Tools

****Test Priority:**** High

****Preconditions:****

- * Logged in as an instructor.
- * Access to the course creation dashboard.
- * Available media files (video, presentation) and quiz templates.

****Test Data:**** Sample video, presentation, quiz template, assignment questions.

****Test Steps:****

1. Navigate to the course creation dashboard.
2. Click the "New Course" button.
3. Enter course title, description, and associated category.
4. Upload a sample video and embed it in the course content.
5. Upload a presentation and add it to the course curriculum.
6. Create a new quiz using the provided template and incorporate it into the course.
7. Create an assignment with specified due date and add it to the course.
8. Save the course as a draft.

****Postconditions:****

* The course draft should be saved successfully.

****Expected Result:****

All multimedia elements (video, presentation, quiz, and assignment) are successfully added to the course draft.

****Severity:** High**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** OLP-CC-002**

****Test Case Title:** Verify that the course creation tools are user-friendly and require minimal technical skills.**

****Test Case Description:** This test case evaluates the user interface and workflow of the course creation tools, ensuring easy navigation and intuitive functionalities for instructors without requiring complex technical knowledge.**

****Test Suite:** Course Creation Tools**

****Test Priority:** High**

****Preconditions:****

* Logged in as an instructor with no prior experience using the platform.

* Access to the course creation dashboard.

****Test Data:**** Sample course content (text, images, video)

****Test Steps:****

1. Navigate to the course creation dashboard.
2. Click the "New Course" button.
3. Fill in the basic course information (title, description, category).
4. Attempt to upload a video file and embed it in the course content.
5. Explore the available options for adding text content, images, and other multimedia elements.
6. Attempt to create a quiz using the provided template and add it to the course.
7. Try adding an assignment with specific instructions and a due date.

****Postconditions:**** None

****Expected Result:****

The interface and functionalities are intuitive and easy to comprehend for a user with no prior technical experience.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Usability Testing

****Test Suite:**** Course Creation Tools

****Test Priority:** Medium**

****Preconditions:****

- * Logged in as an instructor.
- * Access to the course creation dashboard.

****Test Data:** Sample course content (text, images, video)**

****TestSteps:****

1. Navigate to the course creation dashboard.
2. Click the "New Course" button.
3. Fill in the basic course information (title, description, category).
4. Add various multimedia elements to the course (text, images, video, quiz, assignment).
5. Preview the course.
6. Make desired edits to the course content.

****Postconditions:****

- * The course preview accurately reflects the content.

****Expected Result:****

The course preview functionality accurately displays the course content and allows instructors to view it before publishing.

****Severity:** Minor**

****Priority:** Medium**

****Type of Testing:**** Functional Testing, Usability Testing

****Test Case Approach:**** Positive

****Test Case ID:**** OLP-CC-004

****Test Case Title:**** Verify that instructors can save courses as drafts.

****Test Case Description:**** This test case confirms the functionality of saving a course in draft mode, allowing instructors to work on it incompletely and resume later.

****Test Suite:**** Course Creation Tools

****Test Priority:**** Low

****Preconditions:****

- * Logged in as an instructor.
- * Access to the course creation dashboard.

****Test Data:**** Partially completed course content.

****Test Steps:****

1. Navigate to the course creation dashboard.
2. Click the "New Course" button.
3. Enter a portion of the course information.

4. Add some multimedia elements but incomplete the full course content.

5. Click the "Save Draft" button.

****Postconditions:****

* The course should be saved as a draft.

****Expected Result:****

The course is successfully saved as a draft, allowing the instructor to return to it later.

****Severity:**** Trivial

****Priority:**** Low

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** OLP-CC-005

****Test Case Title:**** Verify that instructors can edit courses post-publishing.

****Test Case Description:**** This test case ensures instructors have the ability to modify and update published courses as needed.

****Test Suite:**** Course Creation Tools

****Test Priority:**** Medium

****Preconditions:****

* Logged in as an instructor.

* Published course available.

****Test Data:**** Proposed changes to the course content.

****Test Steps:****

1. Navigate to the list of published courses.
2. Select the desired published course.
3. Edit the existing course content, including adding, removing, or modifying any.
4. Save the changes.

****Postconditions:****

* Changes are reflected in the published course.

****Expected Result:****

The instructors can successfully edit and update the published course content, without affecting student access or progress in the already enrolled courses.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

Data - 50

Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Interactive Lessons

Feature description -

Lessons are thoughtfully designed to foster learner engagement through interactive components such as quizzes, polls, simulations, and discussions. By encouraging active participation and critical thinking, these interactive elements enhance comprehension and retention of course material.

Userstory title -

As a learner, I want interactive lessons so that I can engage with the content more effectively.

Acceptance criteria -

['Lessons include quizzes, polls, simulations, and discussions.', 'Interactive elements are integrated seamlessly into the lesson content.', 'Learners can track their progress through these activities.', 'Feedback is provided after each interactive component.', 'Interactive lessons can be accessed on various devices.']

Generated Test Cases:

Test Cases for Interactive Lessons Feature

Here are 5 detailed test cases for the "Interactive Lessons" feature of the Online Learning Platform, covering all acceptance criteria:

****Test Case ID**:** TC_IL_001

****Test Case Title**:** Verify that quizzes are included in lessons.

****Test Suite**:** Interactive Lesson Feature

****Test Priority**:** High

****Preconditions**:**

* Learner account is created and logged in.

* A lesson with interactive elements is selected.

****Test Data**:** No test data needed.

****Test Steps**:**

1. Navigate to the selected lesson.
2. Identify and select a quiz within the lesson content.
3. Answer all questions in the quiz.
4. Submit the quiz and review the feedback provided.

****Postconditions**:**

* Learner is redirected to the lesson content after quiz submission.

**** Expected Result**:** The quiz should appear, function correctly, and provide feedback upon completion.

****Severity**:** Critical

****Priority**:** High

****Type of Testing**:** Functional Testing

****Test Case Approach**:** Positive

****Test Case ID**:** TC_IL_002

****Test Case Title**:** Verify that polls are integrated seamlessly into lessons.

****Test Suite**:** Interactive Lesson Feature

****Test Priority**:** High

****Preconditions**:**

* Learner account is created and logged in.

* A lesson with interactive elements is selected.

****Test Data**:** No test data needed.

****Test Steps**:**

1. Navigate to the selected lesson.
2. Identify and select a poll within the lesson content.
3. Choose an option from the poll and submit the response.
4. View the poll results and the other learners' choices.

****Postconditions**:**

* No further actions required.

****Expected Result**:** The poll should appear, function correctly, and display results accurately.

****Severity**:** Critical

****Priority**:** High

****Type of Testing**:** Functional Testing

****Test Case Approach**:** Positive

****Test Case ID**:** TC_IL_003

****Test Case Title**:** Verify that simulations are included in lessons and function correctly.

****Test Suite**:** Interactive Lesson Feature

****Test Priority**:** High

****Preconditions**:**

* Learner account is created and logged in.

* A lesson with interactive elements, including a simulation, is selected.

****Test Data**:** No test data needed.

****Test Steps**:**

1. Navigate to the selected lesson.
2. Identify and launch the simulation within the lesson content.
3. Interact with the simulation elements according to the instructions.
4. Achieve a specific outcome within the simulation.

****Postconditions**:**

* No further actions required.

****Expected Result****: The simulation should load properly, respond to user interactions, and allow the learner to achieve the intended outcome.

****Severity****: Critical

****Priority****: High

****Type of Testing****: Functional Testing, Usability Testing

****Test Case Approach****: Positive

****Test Case ID****: TC_IL_004

****Test Case Title****: Verify that learners can track their progress through interactive activities.

****Test Suite****: Interactive Lesson Feature

****Test Priority****: Medium

****Preconditions****:

* Learner account is created and logged in.

* A lesson with interactive elements is selected.

****Test Data****: No test data needed.

****Test Steps****:

1. Navigate to the selected lesson.
2. Participate in interactive activities (quiz, poll, simulation, discussion).

3. Access the learner progress tracking feature within the lesson.
4. Verify that the progress tracking accurately reflects the completion status of each activity.

****Postconditions**:**

* No further actions required.

****Expected Result**:** The progress tracking feature should accurately display the learner's completion status for each interactive activity within the lesson.

****Severity**:** Major

****Priority**:** Medium

****Type of Testing**:** Functional Testing

****Test Case Approach**:** Positive

****Test Case ID**:** TC_IL_005

****Test Case Title**:** Verify compatibility and accessibility of interactive lessons across devices.

****Test Suite**:** Interactive Lesson Feature

****Test Priority**:** Medium

****Preconditions**:**

* Access to multiple devices (e.g., desktop, laptop, tablet, smartphone).

* Learner account is created and logged in on each device.

* A lesson with interactive elements is selected.

****Test Data****: No test data needed.

****Test Steps****:

1. Access the selected lesson on each device.
2. Verify that the lesson content, including interactive elements, is rendered correctly and displays responsively.
3. Participate in interactive activities on each device and ensure functionality and user experience remain consistent.

****Postconditions****:

* No further actions required.

****Expected Result****: Interactive lessons should function seamlessly and be accessible on various devices, ensuring a consistent learning experience.

****Severity****: Major

****Priority****: Medium

****Type of Testing****: Compatibility Testing, Usability Testing

Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Personalized Learning Paths

Feature description -

Learners have the flexibility to tailor their learning journey by selecting courses, modules, and activities aligned with their unique interests, preferences, and learning objectives. This personalized approach enables learners to pursue their educational goals at their own pace and according to their individual learning styles.

Userstory title -

As a learner, I want personalized learning paths so that I can focus on topics that interest me and progress at my own pace.

Acceptance criteria -

['Learners can choose courses and modules based on their interests.', 'Personalized learning paths adjust dynamically based on learner progress.', 'Learners receive recommendations for new courses and modules.', 'Progress tracking is personalized to each learner's path.', 'Learners can adjust their learning paths at any time.']

Generated Test Cases:

Test Cases for Personalized Learning Paths Feature

Test Case ID: PLC-001

****Test Case Title:**** Verify that learners can choose courses and modules based on their interests.

****Test Case Description:**** This test case aims to confirm that learners can select courses and modules relevant to their interests from the platform's catalog.

****Test Suite:**** User Feature - Personalized Learning Paths

****Test Priority:**** High

****Preconditions:****

* The user is logged in to the platform.

* The platform contains a variety of courses and modules across different subjects.

* The user has the necessary permissions to enroll in courses and modules.

****Test Data:**** List of popular subject categories on the platform (e.g., Programming, Design, Business, History)

****Test Steps:****

1. Navigate to the course catalog page.

2. Filter the course list by a chosen subject category (e.g., Programming).

3. Browse through the displayed courses and modules.

4. Select a course and modules within the chosen category that align with the user's expressed interest.

5. Verify that the selected courses and modules are added to the user's personalized learning path.

****Postconditions:****

* The learner's learning path reflects the chosen courses and modules.

* The learner can access the selected courses and modules from their learning dashboard.

****Expected Result:**** The learner can successfully select and add courses and modules based on their specific interests.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** PLC-002**

****Test Case Title:** Verify that personalized learning paths adjust dynamically based on learner progress.**

****Test Case Description:** This test case confirms the adaptive nature of personalized learning paths by simulating user progress and observing path adjustments.**

****Test Suite:** User Feature - Personalized Learning Paths**

****Test Priority:** High**

****Preconditions:****

- * The user is logged in to the platform.
- * The user has started a course and progressed through multiple modules within it.
- * The platform has algorithms in place to track user progress and recommend relevant content.

****Test Data:** Course curriculum with multiple modules, user progress through initial modules.**

****Test Steps:****

1. Start a chosen course with multiple modules.
2. Complete the first few modules, demonstrating learner progress.
3. The platform should analyze the user's progress and adjust recommendations for subsequent modules.
4. Observe the displayed recommendations for new content; these should align with the user's demonstrated interest and pace.

****Postconditions:****

* The learner's learning path has been dynamically adjusted based on progress.

* New recommendations are relevant to the user's current learning stage.

****Expected Result:**** The personalized learning path adapts seamlessly, suggesting relevant modules based on the user's individual progress.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Integration Testing

****Test Case Approach:**** Positive

****(Continue creating similar test cases covering the remaining acceptance criteria with different test IDs, titles & descriptions)****

Data - 52

Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Progress Tracking

Feature description -

Learners benefit from comprehensive progress tracking features that provide detailed insights into their advancement through courses, modules, and tasks. By monitoring completed activities, grades, and achievements, learners can gauge their performance and identify areas for improvement.

Userstory title -

As a learner, I want detailed progress tracking so that I can monitor my advancement and identify areas for improvement.

Acceptance criteria -

['Progress tracking shows completed activities and grades.', 'Learners can view detailed reports on their progress.', 'Achievements are highlighted in the progress tracker.', 'Learners receive notifications about their progress.', 'Progress tracking can be exported as reports.']

Generated Test Cases:

Online Learning Platform - Progress Tracking Test Cases

****Test Case ID:** PTC_PRGTRACK_001**

****Test Case Title:** Verify that completed activities are displayed in the progress tracker**

****Test Case Description:** This test case verifies that the progress tracker accurately reflects the completion status of learning activities within a course.**

****Test Suite:** Progress Tracking Feature Suite**

****Test Priority:** High**

****Preconditions:****

* User has successfully logged in to the platform.

* User is enrolled in a course with multiple modules and activities.

****Test Data:****

* A course with various learning activities (e.g., videos, quizzes, readings, assignments).

****Test Steps:****

1. Navigate to the course dashboard.

2. Open the progress tracker section.

3. Complete a set of activities within the course (e.g., watch a video, attempt a quiz, complete a reading assignment).

4. Refresh the page and return to the progress tracker.

5. Verify that the completed activities are marked as "Completed" or visually indicated as progressed.

****Postconditions:****

* Progress tracker reflects the completion status accurately.

****Expected Result:**** Completed activities are displayed correctly in the progress tracker.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional testing

****Test Case Approach:**** Positive

****Test Case ID:** PTC_PRGTRACK_002**

****Test Case Title:** Verify that grades are displayed in the progress tracker**

****Test Case Description:** This test case verifies that the progress tracker accurately reflects the grades earned by the learner on quizzes and assignments within a course.**

****Test Suite:** Progress Tracking Feature Suite**

****Test Priority:** High**

****Preconditions:****

- * User has successfully logged in to the platform.

- * User is enrolled in a course with graded components (e.g., quizzes, assignments).

- * User has completed at least one graded activity within the course.

****Test Data:****

- * A quiz or assignment with a defined scoring system.

****Test Steps:****

1. Navigate to the course dashboard.

2. Open the progress tracker section.

3. Complete a graded activity (e.g., attempt a quiz, submit an assignment).

4. Retrieve the results of the graded activity and note the grade earned.

5. Verify that the grade earned is displayed accurately in the corresponding section of the progress tracker.

****Postconditions:****

- * The progress tracker accurately reflects the grade for each completed graded activity.

****Expected Result:**** The progress tracker displays the correct grade received for each completed graded activity.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** PTC_PRGTRACK_003

****Test Case Title:**** Verify that achievements are highlighted in the progress tracker

****Test Case Description:**** This test case verifies that significant learner achievements, such as completing a module or achieving a certain percentage progress, are visually highlighted within the progress tracker.

****Test Suite:**** Progress Tracking Feature Suite

****Test Priority:**** Medium

****Preconditions:****

- * User has successfully logged in to the platform.

- * User is enrolled in a course with milestones or modules to complete.

****Test Data:****

- * A course with defined milestones or modules.

****Test Steps:****

1. Navigate to the course dashboard.
2. Open the progress tracker section.
3. Progress through the course, completing modules or reaching predefined progress milestones.
4. Verify that the completed milestones or modules are visually highlighted (e.g., with badges, color difference, or special icons) in the progress tracker.

****Postconditions:****

* The progress tracker effectively highlights achieved milestones.

****Expected Result:**** Completed milestones or modules are visually distinguished in the progress tracker.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing/User Interface Testing

****Test Case Approach:**** Positive

****Test Case ID:**** PTC_PRGTRACK_004

****Test Case Title:**** Verify that notifications are sent about learner progress

****Test Case Description:**** This test case verifies that the system sends notifications to learners about achieving specific progress milestones or completing tasks within a course.

****Test Suite:**** Progress Tracking Feature Suite

****Test Priority:**** Medium

****Preconditions:****

- * User has successfully logged in to the platform.
- * User is enrolled in a course with relevant progress notifications configured.
- * User's notification preferences are set to receive email/in-app notifications.

****Test Data:****

- * A course with configured progress notifications (e.g., completion of a module, quiz score exceeding a threshold).

****Test Steps:****

1. Navigate to the course dashboard.
2. Proceed through the course, aiming to trigger a configured progress notification (e.g., complete a module, achieve a high score on a quiz).
3. Check the user's email inbox (if email notifications are enabled) or the platform's notification center for a message related to the triggered progress.

****Postconditions:****

- * Confirmation of successful alert delivery (email/in-app notification) for specific progress points.

****Expected Result:**** A notification is received by the learner upon achieving the configured progress milestones.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing/UI Testing

****Test Case Approach:**** Positive

****Test Case ID:**** PTC_PRGTRACK_005

****Test Case Title:**** Verify that progress tracking data can be exported as a report

****Test Case Description:**** This test case verifies that the learner's progress tracking data can be downloaded in a suitable report format.

****Test Suite:**** Progress Tracking Feature Suite

****Test Priority:**** Medium

****Preconditions:****

* User has successfully logged in to the platform.

* User is enrolled in a course with a history of activities and grades.

****Test Data:****

* Valid email address associated with the user account.

****Test Steps:****

1. Navigate to the progress tracker section.
2. Locate the option to download or export the progress data.
3. Select an appropriate report format (e.g., PDF, CSV).
4. Open the downloaded report and verify that it includes relevant information:
 - * Learners' name and progress through modules and activities
 - * Detailed grades earned on quizzes and assignments
 - * Other relevant progress metrics

****Postconditions:****

- * Downloaded report contains the expected format and data.

****Expected Result:**** The system successfully exports the learner's progress tracking data into a downloadable report.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Data - 53

Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Assessment and Grading

Feature description -

Instructors have the ability to create diverse assessments such as quizzes, tests, and assignments to evaluate learner comprehension and mastery of course content. Through timely feedback and accurate grading, instructors support learners in their academic development and provide valuable insights for continuous improvement.

Userstory title -

As an instructor, I want to create diverse assessments so that I can evaluate learner comprehension and provide feedback.

Acceptance criteria -

['Instructors can create quizzes, tests, and assignments.', 'Assessments can include various question types (MCQs, short answers, essays, etc.).', 'Automatic grading is available for objective questions.', 'Manual grading is available for subjective questions.', 'Feedback is provided to learners after grading.']

Generated Test Cases:

Here are 5 detailed test cases for the "Assessment and Grading" feature of the Online Learning Platform, following the provided template:

****Test Case 1:****

*** **Test Case ID:** TCA-001**

*** **Test Case Title:**** Verify that instructors can create a quiz with multiple question types.

*** **Test Case Description:**** This test case verifies the instructor's ability to create a quiz containing different question types, including multiple-choice, short answer, and true/false.

*** **Test Suite:**** Assessment and Grading

*** **Test Priority:**** High

*** **Preconditions:****

- * Instructor account logged in.

- * A new course or existing course is available.

*** **Test Data:****

- * Sample quiz questions: Multiple choice, short answer, true/false.

*** **Test Steps:****

1. Navigate to the course where the quiz needs to be created.
2. Click on the "Create Assessment" button.
3. Select "Quiz" as the assessment type.
4. Add at least one question of each type (multiple choice, short answer, true/false).
5. Configure the quiz settings (e.g., time limit, points per question).
6. Save the quiz.

*** **Postconditions:****

- * A new quiz is created and accessible within the course.

*** **Expected Result:****

* The quiz is successfully created with multiple question types.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, Acceptance Testing

* **Test Case Approach:** Positive

Test Case 2:

* **Test Case ID:** TCA-002

* **Test Case Title:** Verify that quizzes can include essay-type questions with manual grading.

* **Test Case Description:** This test case checks the functionality for adding essay-type questions to a quiz and the manual grading process.

* **Test Suite:** Assessment and Grading

* **Test Priority:** High

* **Preconditions:**

* Same as Test Case 1.

* **Test Data:**

* Sample essay-type question with grading rubric.

* **Test Steps:**

1. Repeat steps 1-4 from Test Case 1, adding an essay-type question in step 4.
2. Set the grading method for the essay question to "Manual."
3. After creating the quiz, preview the questions.
4. Instructor marks the essay question for a test submission.

* **Postconditions:**

- * The student receives feedback on their essay submission.

* **Expected Result:**

- * The essay-type question is included in the quiz.

- * The instructor can grade the essay manually and provide feedback to the learner.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, Acceptance Testing

* **Test Case Approach:** Positive

Test Case 3:

* **Test Case ID:** TCA-003

* **Test Case Title:** Verify that automatic grading is applied correctly for multiple-choice questions.

* **Test Case Description:** This test case ensures that multiple-choice questions are graded automatically and accurately.

* **Test Suite:** Assessment & Grading

* **Test Priority:** Medium

* **Preconditions:**

- * Same as Test Case 1.

* **Test Data:**

- * A multiple-choice question with distinct answer options (including one correct answer).

* **Test Steps:**

1. Repeat steps 1-4 from Test Case 1.

2. Submit the quiz using the test account.
3. Review the quiz results immediately after submission.

* **Postconditions:**

- * Quiz submission needs to reflect the correct score based on selected answer options.

* **Expected Result:**

- * The quiz is automatically graded, awarding points for the correct answer selection.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing, Acceptance Testing

* **Test Case Approach:** Positive

Test Case 4:

* **Test Case ID:** TCA-004

* **Test Case Title:** Verify that feedback is provided to learners after grading.

* **Test Case Description:** This test case ensures that feedback is displayed to learners after completing a graded assessment.

* **Test Suite:** Assessment & Grading

* **Test Priority:** Medium

* **Preconditions:**

- * Same as Test Case 1.

* **Test Data:**

- * Sample correct and incorrect answers for various question types.

****Test Steps:****

1. Complete a sample quiz, including both correct and incorrect answers, within the platform.
2. Navigate to the assessment results section.
3. Review the feedback provided for each answered question.

****Postconditions:****

- * Feedback should show within the assessment results section.

****Expected Result:****

- * For correct answers, feedback should indicate accuracy.
- * For incorrect answers, feedback should explain why the chosen answer was incorrect and provide the correct answer.

****Severity:**** Medium

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Acceptance Testing

****Test Case Approach:**** Positive

****Test Case 5:****

****Test Case ID:**** TCA-005

****Test Case Title:**** Verify handling of empty answers for short answer and essay questions.

****Test Case Description:**** This test case checks if the system handles empty answers for short answer and essay questions appropriately, preventing grading errors and providing clear feedback to learners.

****Test Suite:**** Assessment & Grading

* **Test Priority:** Medium

* **Preconditions:**

* Same as Test Case 1.

* **Test Data:**

* Sample short answer question. Sample essay question.

* **Test Steps:**

1. Create a new quiz with both short answer and essay questions.
2. Submit the quiz without providing answers for the short answer and essay questions.
3. Review the quiz results and the feedback provided for the unanswered questions.

* **Postconditions:**

* The system should accurately identify the unanswered questions.

* **Expected Result:**

- * The system clearly indicates missing answers for both short answer and essay questions.
- * Relevant feedback should be provided to learners, emphasizing the need to answer the questions.

* **Severity:** Minor

* **Priority:** Medium

* **Type of Testing:** Functional Testing, Acceptance Testing

* **Test Case Approach:** Negative

Data - 54

Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Discussion Forums

Feature description -

Learners engage in meaningful discussions, ask questions, and share insights with peers and instructors through dedicated discussion forums. These forums foster collaboration, critical thinking, and knowledge sharing, enriching the learning experience through diverse perspectives and active participation.

Userstory title -

As a learner, I want to participate in discussion forums so that I can engage with peers and instructors.

Acceptance criteria -

['Learners can post questions and responses in forums.', 'Forums support threaded discussions.', 'Instructors can moderate discussions.', 'Learners receive notifications for new posts.', 'Forums are accessible on all

devices.']

Generated Test Cases:

Test Cases for Discussion Forums Feature

****User Story:**** As a learner, I want to participate in discussion forums so that I can engage with peers and instructors.

****Test Case ID:**** DT-001

****Test Case Title:**** Verify that learners can post questions and responses in forums.

****Test Case Description:**** This test case verifies the functionality of posting questions and responses within the discussion forums. It ensures learners can successfully create new threads and reply to existing posts.

****Test Suite:**** User Functionality

****Test Priority:**** High

****Preconditions:****

* Learner account is created and logged in.

* A course with discussion forums is selected.

****Test Data:**** Sample questions and responses.

****Test Steps:****

1. Navigate to the discussion forum within the selected course.
2. Click the "New Topic" button and enter a relevant title and a sample question.
3. Click the "Post" button to submit the question.
4. Locate the newly created topic and reply to it with a sample response.
5. Click the "Post" button to submit the response.

****Postconditions:****

- * The submitted question and response are displayed in the respective thread.
6. Verify that the post is visible to other learners and instructors in the forum.

****Expected Result:**** The question and response are posted successfully and are visible in the appropriate forum thread.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** DT-002

****Test Case Title:**** Verify that forums support threaded discussions.

****Test Case Description:**** This test case ensures that the platform allows for nested replies, creating a structured conversation flow within each topic.

****Test Suite:**** User Functionality

****Test Priority:**** High

****Preconditions:****

* A topic with initial question has been created (refer to DT-001).

****Test Data:**** Multiple sample replies for the same topic.

****Test Steps:****

1. Locate the topic created in DT-001.
2. Post a reply to the initial question.
3. Post another reply as a nested response to the previous reply.
4. Verify that the nested replies are indented and clearly indicate the thread hierarchy.

****Postconditions:****

* Not applicable

****Expected Result:**** Nested replies are displayed correctly, maintaining a clear thread structure.

****Severity:**** Critical

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive, Negative**

****Test Case ID:** DT-003**

****Test Case Title:** Verify that instructors can moderate discussions.**

****Test Case Description:** This test case verifies the instructor's ability to manage forum content: deleting inappropriate posts, marking threads as important, or editing existing conversations.**

****Test Suite:** Instructor Functionality**

****Test Priority:** High**

****Preconditions:****

- * Instructor account is created and logged in.
- * A course with discussion forums is selected.
- * Learners have posted messages in the forums.

****Test Data:****

* Example of an inappropriate post by a learner.

****Test Steps:****

1. Navigate to the discussion forum within the selected course.
2. Identify a learner post that violates the community guidelines (e.g., offensive language).
3. As the instructor, choose the "Delete" option for the inappropriate post.
4. Verify the post is removed from the forum thread.

****Postconditions:****

* Not applicable

****Expected Result:**** The instructor successfully deletes the inappropriate post from the forum.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** DT-004

****Test Case Title:**** Verify that learners receive notifications for new posts.

****Test Case Description:**** This test case ensures learners are notified when new posts are made in forums they are participating in.

****Test Suite:**** User Functionality

****Test Priority:**** Medium

****Preconditions:****

- * Learner account is logged in, participating in a discussion forum.
- * A new post is made in the forum after the preconditions are met.

****Test Data:****

- * Email address associated with the learner account.

****Test Steps:****

1. Log into the learner account and visit the discussion forum.
2. Simulate a new post being made in the forum.
3. Check the learner's email inbox for a notification.

****Postconditions:****

- * Email notification is reviewed by the learner.

****Expected Result:**** The learner receives an email notification with details about the new post within a reasonable timeframe.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional Testing, Notification System Testing**

****Test Case Approach:** Positive**

****Test Case ID:** DT-005**

****Test Case Title:** Verify forum accessibility on different devices.**

****Test Case Description:** This test case ensures the discussion forum functions correctly and is accessible on various devices, including desktops, tablets, and mobile phones.**

****Test Suite:** Cross-Platform Compatibility**

****Test Priority:** Medium**

****Preconditions:****

* Stable internet connection is available.

****Test Data:** Various devices with different screen sizes (desktop, tablet, smartphone).**

****Test Steps:****

1. Access the online learning platform on each selected device (desktop, tablet, smartphone).
2. Navigate to a course with active discussion forums.
3. Attempt to participate in the forum by creating a new topic, replying to an existing post, and viewing forum threads.
4. Verify that the interfaces, functionalities, and content display correctly and are responsive on each device.

****Postconditions:****

* Test results are documented.

****Expected Result:**** The discussion forum is accessible and functional on all tested devices, providing a consistent user experience regardless of the device used.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Compatibility Testing

****Test Case Approach:**** Positive, Negative

Data - 55

Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Live Classes and Webinars

Feature description -

The platform facilitates live interactive sessions, allowing instructors to conduct real-time classes and webinars through seamless video conferencing tools. These live sessions enable dynamic engagement, Q&A opportunities, and direct interaction between instructors and learners, replicating the immersive experience of traditional classroom settings.

Userstory title -

As a learner, I want to attend live classes and webinars so that I can interact with instructors in real-time.

Acceptance criteria -

['Live classes and webinars are conducted through video conferencing tools.', 'Learners can ask questions in real-time.', 'Sessions are recorded and available for later viewing.', 'Instructors can share screen and resources during sessions.', 'Notifications are sent before sessions start.']

Generated Test Cases:

Test Cases for Live Classes and Webinars Feature

****User Story Title:**** As a learner, I want to attend live classes and webinars so that I can interact with

instructors in real-time.

****Test Case ID:** LC-001**

****Test Case Title:** Verify that learners can join live classes and webinars through video conferencing tools.**

****Test Case Description:** This test case verifies the seamless integration of video conferencing tools for live sessions, ensuring learners can access and participate in them.**

****Test Suite:** Live Classes & Webinars**

****Test Priority:** High**

****Preconditions:****

- * A user account is created and logged in.
- * An instructor has scheduled a live class or webinar.

****Test Data:****

- * A valid URL for the live session.

****Test Steps:****

1. Navigate to the scheduled live class/webinar on the platform.
2. Click on the "Join Session" button.
3. Verify that the platform successfully connects to the video conferencing tool.

4. Observe the video and audio quality during the session.
5. Test the functionality of the chat feature within the video conferencing tool.

****Postconditions:****

- * The learner remains connected to the video conferencing session.
- * The learner can interact with the instructor through the chat.

****Expected Result:**** The learner is successfully connected to the live session via the video conferencing tool and can participate in real-time.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional, Integration

****Test Case ID:**** LC-002

****Test Case Title:**** Verify that learners can ask questions in real-time during live sessions.

****Test Case Description:**** This test case ensures learners can effectively interact with instructors by asking questions during live sessions.

****Test Suite:**** Live Classes & Webinars

****Test Priority:** High**

****Preconditions:****

- * A live class/webinar is in progress.
- * The learner is connected to the session.

****Test Data:****

- * A prepared question related to the session topic.

****Test Steps:****

1. During the live session, type a question in the designated chat box.
2. Send the question.
3. Observe if the instructor acknowledges the question in real-time.
4. If applicable, verify the instructor provides a satisfactory answer.

****Postconditions:****

- * The instructor has seen and acknowledges the learner's question.

****Expected Result:**** The learner's question is successfully transmitted to the instructor and addressed promptly during the session.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional**

****Test Case ID:** LC-003**

****Test Case Title:** Verify that recordings of live classes and webinars are available for later viewing.**

****Test Case Description:** This test case confirms the functionality of session recording and accessibility for learners who missed or want to review the content.**

****Test Suite:** Live Classes & Webinars**

****Test Priority:** High**

****Preconditions:****

*** An instructor has conducted a live class/webinar.**

****Test Data:** None**

****Test Steps:****

1. Navigate to the course or event page where the live session took place.
2. Locate the section displaying recordings of past sessions.
3. Click on the "Play" button for the recorded live session.

4. Verify the audio and video quality of the recording.

****Postconditions:****

* The recording playback is successful

****Expected Result:**** The recording of the live session is accessible to learners and plays without interruptions.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional

****Test Case ID:**** LC-004

****Test Case Title:**** Verify that instructors can share screen and resources during live sessions.

****Test Case Description:**** This test case ensures the seamless sharing of screen content and downloadable resources by instructors to enhance the live learning experience.

****Test Suite:**** Live Classes & Webinars

****Test Priority:**** High

****Preconditions:****

- * An instructor is hosting a live class/webinar.
- * The instructor has prepared screen content and downloadable resources.

****Test Data:****

- * A short presentation or document to be shared.

****Test Steps:****

1. During the live session, observe the instructor accessing the screen sharing functionality.
2. Verify that the instructor successfully shares their desired screen content with learners.
3. Observe the instructor sharing a downloadable resource (e.g., PDF, presentation slides).
4. Attempt to download the shared resource.

****Postconditions:****

- * The resource is downloaded successfully.

****Expected Result:**** The instructor successfully shares screen content and downloadable resources with learners during the live session.

****Test Case ID:**** LC-005

****Test Case Title:**** Verify that learners receive notifications before live sessions start.

****Test Case Description:**** This test case confirms the functionality of notifications to inform learners about upcoming live sessions, ensuring timely attendance.

****Test Suite:**** Live Classes & Webinars

****Test Priority:**** Medium

****Preconditions:****

- * A user account is created and logged in.
- * An instructor has scheduled a live class/webinar.

****Test Data:**** A valid email address associated with the user account.

****Test Steps:****

1. Allow sufficient time for the notification to be sent (as per system settings).
2. Check the email inbox associated with the user account.
3. Verify that an email notification about the upcoming live session has been received.
4. Verify that the notification contains essential details like the session title, start time, and link to join.

****Postconditions:****

- * Notification is received beforehand.

****Expected Result:**** The learner receives a timely notification email before the scheduled live session.

Data - 56

Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Mobile Accessibility

Feature description -

Learners enjoy seamless access to course materials and learning activities via mobile devices, ensuring flexibility and convenience in their learning journey. Whether on-the-go or in remote locations, mobile accessibility enables continuous learning opportunities, empowering learners to maximize their educational experience anytime, anywhere.

Userstory title -

As a learner, I want mobile access to the platform so that I can learn on the go.

Acceptance criteria -

['The platform is accessible on smartphones and tablets.', 'Mobile UI is optimized for touch navigation.', 'Course materials are accessible and readable on mobile devices.', 'Notifications are sent to mobile devices.', 'The platform supports offline access to downloaded materials.']

Generated Test Cases:

Test Cases for Mobile Accessibility Feature

****Test Case ID:**** TC_MOB_001

****Test Case Title:**** Verify that the platform is accessible on smartphones

****Test Case Description:**** This test case verifies the functionality of the online learning platform on a variety of smartphone devices with different operating systems (iOS and Android) and screen sizes.

****Test Suite:**** Mobile Accessibility

****Test Priority:**** High

****Preconditions:****

- * Device with internet connection (Android and iOS)
- * User account credentials

****Test Data:**** List of smartphone devices to be tested with diverse screen sizes and resolutions

****Test Steps:****

1. Launch the platform on the selected smartphone devices.
2. Access the platform home page and navigate through different sections like courses, lectures, tutorials, and forums.
3. Verify successful loading and rendering of all page elements, including text, images, videos, and buttons.
4. Attempt to perform user actions like login, registration, course selection, and quiz participation.
5. Observe and record any issues encountered during navigation and functionality testing.

****Postconditions:****

* Devices are powered off after testing.

****Expected Result:**** The platform should be fully functional and accessible on all tested smartphone devices with no rendering issues or functionality limitations.

****Severity:**** Blocker

****Priority:**** High

****Type of Testing:**** Functional Testing, Compatibility Testing, Usability Testing

****Test Case Approach:**** Positive Testing

****Test Case ID:**** TC_MOB_002

****Test Case Title:**** Verify that the mobile UI is optimized for touch navigation

****Test Case Description:**** This test case evaluates the user experience on mobile devices by assessing the intuitiveness and ease of navigation through the platform's user interface (UI) using touch interactions.

****Test Suite:**** Mobile Accessibility

****Test Priority:**** High

****Preconditions:****

- * Device with internet connection (Android and iOS)
- * User account credentials

****Test Data:**** Nil

****Test Steps:****

1. Log in to the platform using the provided credentials on a mobile device.
2. Navigate through different sections of the platform using touch interactions, such as tapping, swiping, and pinching.
3. Evaluate the responsiveness of UI elements and the clarity of navigation paths.
4. Test the functionality of buttons, menus, and other interactive elements.
5. Observe if any actions require excessive taps or gestures, leading to user frustration.

****Postconditions:****

- * Device is powered off after testing.

****Expected Result:**** The UI should be responsive, intuitive, and easy to navigate using touch gestures. All interactive elements should function correctly.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:** Usability Testing**

****Test Case Approach:** Positive Testing**

You can continue creating additional test cases following the same template to cover all the acceptance criteria for mobile accessibility. Remember to:

- * ****Specify unique test IDs:**** Use alphabetical order or a numbering system for easy identification.
- * ****Clearly describe the test case objective:**** Make sure the test title communicates what is being verified.
- * ****Provide detailed test steps:**** Document each action taken during the test execution, ensuring reproducibility.
- * ****Cover both positive and negative scenarios:**** Test for expected behavior and potential edge cases.

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Resource Library

Feature description -

A comprehensive repository of supplementary materials such as e-books, articles, and reference guides enriches the learning experience by providing additional insights and resources. Learners can access diverse content to deepen their understanding, explore related topics, and enhance their knowledge beyond the confines of the core curriculum.

Userstory title -

As a learner, I want access to a resource library so that I can explore additional materials and deepen my understanding.

Acceptance criteria -

['Resource library includes e-books, articles, and reference guides.', 'Learners can search for specific materials.', 'Resources are categorized and tagged for easy navigation.', 'Learners can download resources for offline access.', 'Instructors can recommend resources to learners.']

Generated Test Cases:

Test Cases for Resource Library Feature

****Test Case ID:**** TC-RL-001

****Test Case Title:**** Verify that learners can access e-books within the resource library.

****Test Case Description:**** This test case verifies the functionality of accessing e-books from the resource library and ensures they are displayed correctly.

****Test Suite:**** User Features

****Test Priority:**** High

****Preconditions:****

- * User is logged in to the online learning platform.
- * An e-book resource is available in the resource library.

****Test Data:****

- * User account with valid credentials
- * Existing e-book resource in the library

****Test Steps:****

1. Navigate to the resource library section of the platform.
2. Locate the available e-book resource.
3. Click on the e-book title to open it.
4. Verify that the e-book content is displayed correctly.
5. Navigate through the different pages/chapters of the e-book.

****Postconditions:****

- * E-book is closed.

****Expected Result:****

The e-book opens and displays correctly, allowing the learner to navigate through the content.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC-RL-002

****Test Case Title:**** Verify that learners can search for specific resources within the library.

****Test Case Description:**** This test case verifies the functionality of the search feature in the resource library, ensuring it retrieves relevant resources based on user input.

****Test Suite:**** User Features

****Test Priority:**** High

****Preconditions:****

- * User is logged in to the online learning platform.
- * Multiple resources are available in the resource library.

****Test Data:****

- * User account with valid credentials
- * Resource names and keywords specific to each resource.

****Test Steps:****

1. Navigate to the resource library section of the platform.
2. Enter a specific search query related to a resource category or keyword.
3. Click the search button.
4. Verify that the search results display relevant resources matching the query.
5. Download one of the search results and verify its content.

****Postconditions:****

- * Search bar is cleared.

****Expected Result:****

The search results accurately reflect the user's query and display relevant resources; downloaded resource matches the search result.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC-RL-003

****Test Case Title:**** Verify that resources are categorized and tagged for easy navigation.

****Test Case Description:**** This test case verifies the categorization and tagging system in the resource

library, ensuring resources are properly organized and searchable by category and tags.

****Test Suite:**** User Features

****Test Priority:**** Medium

****Preconditions:****

* User is logged in to the online learning platform.

* A variety of resources are available in the library, categorized and tagged.

****Test Data:****

* User account with valid credentials

* List of resource categories and tags available in the library

****Test Steps:****

1. Navigate to the resource library section of the platform.

2. Review the available categories and tags displayed.

3. Select a specific category and verify that relevant resources appear.

4. Select a specific tag and verify that relevant resources are displayed.

5. Search for a resource using both a category and a tag filter.

****Postconditions:****

* Category and tag filters are cleared.

****Expected Result:****

All resources are correctly categorized and tagged. Filtering by category and tags accurately displays the desired subset of resources.

****Severity:**** Moderate

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC-RL-004

****Test Case Title:**** Verify that learners can download resources for offline access.

****Test Case Description:**** This test case verifies the functionality of downloading resources for offline use, ensuring they download successfully and can be accessed offline.

****Test Suite:**** User Features

****Test Priority:**** High

****Preconditions:****

- * User is logged in to the online learning platform.

- * A downloadable resource (e.g., PDF) is available in the resource library.

- * User has adequate storage space.

****Test Data:****

- * User account with valid credentials

- * Downloadable resource in the library.

****Test Steps:****

1. Navigate to the resource library section of the platform.

2. Locate the downloadable resource.

3. Click on the download button for the resource.

4. Verify that the download progresses successfully.

5. (Optional) Disconnect internet access and attempt to open the downloaded resource.

****Postconditions:****

- * The downloaded resource is saved in the designated location.

****Expected Result:****

The downloadable resource downloads completely and can be accessed offline.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:****Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC-RL-005

****Test Case Title:**** Verify that instructors can recommend resources to learners.

****Test Case Description:**** This test case verifies the functionality for instructors to recommend resources to learners, ensuring the recommendations are appropriately displayed.

****Test Suite:**** Instructor Features

****Test Priority:**** Medium

****Preconditions:****

- * Instructor is logged in to the platform.
- * At least one resource is available in the resource library.

****Test Data:****

- * Instructor account with valid credentials
- * A list of resources in the library

****Test Steps:****

1. Instructor navigates to the resource library section.
2. Instructor selects a resource they wish to recommend.
3. Instructor utilizes the "Recommend" or similar function provided to add the resource to a designated recommendations list.
4. Instructor navigates to a relevant course or learning path.
5. Verify that the recommended resource is displayed appropriately on the course or learning path page.

****Postconditions:****

- * The recommendation is saved and associated with the course/path.

****Expected Result:****

The instructor can successfully recommend resources. Learners within the assigned course or learning path can see the recommendations, displaying the resource title, brief description, and a link to access the resource in the library.

****Severity:**** Moderate

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Data - 58

Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Peer Review

Feature description -

Learners actively engage in peer review processes, offering constructive feedback and insights on each other's work. Through collaborative assessment and review, learners develop critical evaluation skills, enhance their understanding of course concepts, and benefit from peer-to-peer learning exchanges.

Userstory title -

As a learner, I want to participate in peer review so that I can give and receive feedback on assignments.

Acceptance criteria -

['Learners can submit assignments for peer review.', 'Peers can provide feedback on submitted assignments.', 'A structured review process guides the feedback.', 'Learners can view feedback on their work.', 'Reviewers remain anonymous to ensure unbiased feedback.']

Generated Test Cases:

Test Cases for Peer Review Feature

****Project Context:**** Online Learning Platform

****User Story:**** As a learner, I want to participate in peer review so that I can give and receive feedback on assignments.

****Test Suite:**** User Feedback Feature

Here are 5 test cases covering the user story's acceptance criteria:

****Test Case ID:**** TC_PeerReview_01

****Test Case Title:**** Verify that learners can submit assignments for peer review.

****Test Case Description:**** This test case verifies the functionality of submitting an assignment for peer review by a learner. It includes cases where the assignment is valid and invalid.

****Test Priority:**** High

****Preconditions:****

- A learner is logged into the platform.
- A course with a peer review assignment is selected.

****Test Data:****

- A valid assignment file (e.g., .docx, .pdf) for submission
- An invalid assignment file (e.g., .exe, .zip)

****Test Steps:****

1. Navigate to the course page.
2. Locate the peer review assignment section.
3. Click on the "Submit Assignment" button.
4. Select the valid assignment file and upload it.
5. Submit the assignment.
6. Attempt to submit the invalid assignment file.

****Expected Result:****

- The valid assignment is successfully submitted for peer review.
- An error message is displayed indicating the invalid file type for submission.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case ID:** TC_PeerReview_02**

****Test Case Title:** Verify that peers can provide feedback on submitted assignments.**

****Test Case Description:** This test case verifies that a peer can access a submitted assignment and provide feedback, including text comments and ratings.**

****Test Priority:** High**

****Preconditions:****

- A learner has submitted an assignment for peer review.
- Another learner is assigned as a reviewer for the submitted assignment.

****Test Data:****

- Textual feedback comments.
- Numerical rating scores (e.g., 1-5).

****Test Steps:****

1. Log in as the reviewer.
2. Access the peer review assignment list.
3. Select an assignment to review.
4. Read through the submitted assignment.
5. Provide feedback comments in the designated text area.
6. Rate the assignment based on the provided scale.
7. Submit the feedback.

****Expected Result:****

- The reviewer successfully provides feedback comments and ratings for the assignment.
- The feedback is visible to the assignment submitter.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing,**

****Test Case ID:** TC_PeerReview_03**

****Test Case Title:** Verify that a structured review process guides the feedback.**

****Test Case Description:** This test case ensures the platform implements a structured review process,**

outlining specific areas or criteria for feedback.

****Test Priority:** High**

****Preconditions:****

- A learner has submitted an assignment for peer review.

****Test Data:** N/A**

****Test Steps:****

1. Access the platform's instructions or guidelines for providing peer review feedback.
2. Review the criteria for evaluation and areas focusing on specific aspects of the assignment.
3. Execute TC_PeerReview_02 while following the outlined structure.

****Expected Result:****

- The platform provides clear and structured guidelines for reviewers, focusing on relevant criteria.
- Reviewers are guided through the feedback process based on the defined structure.

****Severity:** Major**

****Priority:** High**

****Type of Testing:** Usability Testing, Functional Testing**

****Test Case ID:** TC_PeerReview_04**

****Test Case Title:** Verify that learners can view feedback on their work.**

****Test Case Description:** This test case ensures learners can access and view all provided feedback on their submitted assignments.**

****Test Priority:** High**

****Preconditions:****

- A learner has submitted an assignment for peer review.
- Peers have provided feedback on the submitted assignment.

****Test Data:**** N/A

****Test Steps:****

1. Log in as the learner who submitted the assignment.
2. Navigate to the Assignments section.
3. Locate the submitted assignment and click on it.
4. Access the designated area for viewing peer feedback.

****Expected Result:****

- The learner can view all submitted feedback, including comments and ratings.
- The feedback is clearly presented and easy to understand.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case ID:**** TC_PeerReview_05

****Test Case Title:**** Verify that reviewers remain anonymous to ensure unbiased feedback.

****Test Case Description:**** This test case verifies that the platform safeguards reviewer anonymity to promote honest and unbiased feedback.

****Test Priority:**** Medium

****Preconditions:****

- A learner has submitted an assignment for peer review.
- A peer has provided feedback on the submitted assignment.

****Test Data:**** N/A

****Test Steps:****

1. Log in as the learner who submitted the assignment.
2. Access the feedback section for the assignment.
3. Observe the identity (name or profile information) of the reviewer.

****Expected Result:****

- The reviewer's identity is hidden or masked to protect anonymity.
- The platform clearly states that reviewer identities are confidential.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Security Testing

These test cases cover all acceptance criteria, provide details for execution, and include expected outcomes, severity, and priority ratings.

Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Certificates and Badges

Feature description -

Upon successful completion of courses or specific milestones, learners receive certificates and badges to recognize their achievements and accomplishments. These credentials provide tangible recognition of learners' efforts, skills, and expertise, enhancing their credentials and demonstrating their commitment to continuous learning and professional development.

Userstory title -

As a learner, I want to earn certificates and badges so that I can showcase my achievements and skills.

Acceptance criteria -

['Learners earn certificates upon course completion.', 'Badges are awarded for specific achievements and milestones.', 'Certificates and badges are accessible through learner profiles.', 'Learners can share their certificates and badges on social media.', 'Instructors can issue custom badges for special achievements.']

Generated Test Cases:

Test Cases for Certificates and Badges Feature

****Project Name:**** Online Learning Platform

****Feature Name:**** Certificates and Badges

Test Case 1

****Test Case ID:** TC_CERT_001**

****Test Case Title:** Verify that learners earn certificates upon course completion.**

****Test Case Description:** This test case verifies that learners receive a certificate upon successfully completing a course.**

****Test Suite:** User Acceptance Testing**

****Test Priority:** High**

****Preconditions:****

* A learner account is created and logged in.

* A course with defined completion criteria is available.

* The learner has enrolled in the course.

****Test Data:** Information for a completed course**

****Test Steps:****

1. The learner completes all necessary course modules and assessments.
2. The learner clicks on the "Complete Course" or "Finish" button.
3. The system confirms course completion and displays a notification about the certificate issuance.
4. The learner navigates to their profile page.
5. The learner confirms the presence of a downloadable certificate under the "Achievements" or "Certifications" section.

****Postconditions:****

* Learner has the certificate downloadable from their profile.

****Expected Result:** A digital certificate is successfully awarded to the learner and is accessible from their learner profile.**

Test Case 2

****Test Case ID:** TC_BADGE_001**

****Test Case Title:** Verify that badges are awarded for specific achievements and milestones.**

****Test Case Description:** This test case verifies that badges are awarded to learners for achieving specific**

milestones within a course or completing certain activities.

****Test Suite:**** User Acceptance Testing

****Test Priority:**** Medium

****Preconditions:****

* A learner account is created and logged in.

* A course with embedded badge awarding criteria is available.

* The learner has enrolled in the course.

****Test Data:**** Specific course activities or milestones requiring badges

****Test Steps:****

1. The learner completes a specific activity within the course (e.g., completing a quiz with a high score).
2. The system displays a notification confirming the badge award.
3. The learner navigates to their profile page.
4. The learner confirms the presence of the awarded badge under the "Achievements" or "Badges" section.

****Postconditions:****

* Learner has the badge displayed on their profile.

****Expected Result:**** A specific badge is awarded to the learner upon completing the designated milestone or activity and is visible on their profile.

Test Case 3

****Test Case ID:**** TC_ACCESSIBILITY_001

****Test Case Title:**** Verify that certificates and badges are accessible through learner profiles.

****Test Case Description:**** This test case ensures that learners can readily access their earned certificates and badges from their profiles.

****Test Suite:**** Functional Testing

****Test Priority:**** High

****Preconditions:****

* A learner account is created and logged in.

* The learner has earned at least one certificate and one badge.

****Test Data:**** N/A

****Test Steps:****

1. The learner logs into their account.
2. The learner navigates to their profile page.
3. The learner verifies the presence of a dedicated section for "Certificates" and "Badges".
4. The learner clicks on a certificate to view the details.
5. The learner clicks on a badge to view the details.

****Postconditions:****

* Learner can view their certificates and badges.

****Expected Result:**** A dedicated section on the learner profile clearly displays all earned certificates and badges, with options to view individual details.

Test Case 4

****Test Case ID:**** TC_SHARE_001

****Test Case Title:**** Verify that learners can share their certificates and badges on social media.

****Test Case Description:**** This test case ensures that learners can effectively share their achievements on various social media platforms.

****Test Suite:**** Functional Testing

****Test Priority:**** Medium

****Preconditions:****

- * A learner account is created and logged in.
- * The learner has earned at least one certificate and one badge.
- * Social media integration is properly configured.

****Test Data:**** Social media account credentials

****Test Steps:****

1. The learner logs into their account.

2. The learner navigates to their profile page.
3. The learner clicks on the "Share" button associated with a certificate.
4. The learner selects a desired social media platform for sharing.
5. The learner authenticates with their chosen social media platform.

****Postconditions:**** The shared certificate or badge is visible on the learner's social media account.

****Expected Result:**** The learner's certificates or badges are successfully shared on their chosen social media platform, including relevant details and a link to their profile on the learning platform.

Test Case 5

****Test Case ID:**** TC_CUSTOM_BADGE_001

****Test Case Title:**** Verify that instructors can issue custom badges for special achievements.

****Test Case Description:**** This test case evaluates the functionality for instructors to create and award custom badges for specific achievements beyond standard course completion.

****Test Suite:**** Functional Testing

****Test Priority:**** High

****Preconditions:****

* An instructor account is created and logged in.

* The learning platform has a mechanism for instructor badge creation and management.

****Test Data:**** Parameters for a custom badge (name, description, icon, criteria)

****Test Steps:****

1. The instructor accesses the badge management section.
2. The instructor creates a new custom badge with a specific name, description, icon, and criteria for awarding.
3. The instructor designates the criteria for earning the custom badge, such as participation in a forum discussion, submitting outstanding project work, or achieving a specific learning objective.
4. The instructor identifies a learner who has met the criteria.
5. The instructor issues the custom badge to the learner.

****Postconditions:**** The learner receives the custom badge.

****Expected Result:**** The instructor successfully creates and awards a custom badge to a learner who fulfilled the predefined criteria, adding a new layer of recognition and motivation.

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Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Gamification Elements

Feature description -

Gamification elements such as points, levels, and leaderboards are strategically integrated into the learning experience to motivate learners and foster engagement. By incorporating game-like mechanics and incentives, the platform incentivizes active participation, goal attainment, and healthy competition, enhancing learner motivation and enjoyment.

Userstory title -

As a learner, I want gamification elements so that I can be motivated to achieve my learning goals.

Acceptance criteria -

['Learners earn points for completing activities.', 'Levels are achieved based on accumulated points.',

'Leaderboards display top-performing learners.', 'Badges are awarded for reaching milestones.', 'Learners can

view their progress in a gamification dashboard.']

Generated Test Cases:

Here are five detailed test cases for the "Gamification Elements" feature, following the provided template:

Test Case 1

* **Test Case ID:** TC_GAM_001

* **Test Case Title:** Verify that learners earn points for completing activities.

* **Test Case Description:** This test case verifies that learners receive points upon successful completion of various activities on the platform, such as watching video lectures, completing quizzes, and participating in forum discussions.

* **Test Suite:** Gamification Feature

* **Test Priority:** High

* **Preconditions:**

- * Learner account is created and logged in.

- * A course with various activities is available to the learner.

* **Test Data:**

- * Points values for each activity (e.g., video lecture = 5 points, quiz = 10 points, forum discussion = 2 points)

* **Test Steps:**

1. Navigate to the course containing the activities.
2. Complete a video lecture within the course.
3. Check the learner's gamification dashboard for the awarded points.
4. Complete a quiz within the course.
5. Check the learner's gamification dashboard for the awarded points.
6. Participate in a forum discussion within the course.

7. Check the learner's gamification dashboard for the awarded points.

* **Postconditions:**

* The learner's point total accurately reflects the completion of all activities.

* **Expected Result:**

* Points are correctly awarded for each completed activity as defined in the test data.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 2

* **Test Case ID:** TC_GAM_002

* **Test Case Title:** Verify that levels are achieved based on accumulated points.

* **Test Case Description:** This test case verifies that learners progress through different levels based on the number of points they accumulate.

* **Test Suite:** Gamification Feature

* **Test Priority:** High

* **Preconditions:**

* Learner account is created and logged in.

* Levels and corresponding point requirements are defined in the system configuration.

* **Test Data:**

* Point requirements for each level

* **Test Steps:**

1. Begin with a new learner account.

2. Complete activities on the platform to earn points.

3. Track the learner's level progression in the gamification dashboard.

4. Verify that the learner's level advances when the required point threshold is reached.

* **Postconditions:**

* The learner's level reflects the accumulated points accurately.

* **Expected Result:**

* Levels are unlocked and displayed correctly based on the point accumulation.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 3

* **Test Case ID:** TC_GAM_003

* **Test Case Title:** Verify that leaderboards display top-performing learners.

* **Test Case Description:** This test case confirms that a leaderboard correctly displays learners ranked by their point totals.

* **Test Suite:** Gamification Feature

* **Test Priority:** Medium

* **Preconditions:**

* At least three learner accounts are created and logged in.

* **Test Data:**

* Points assigned to each learner account

* **Test Steps:**

1. Launch the platform and navigate to the leaderboard section.
2. Observe the ranking of learners based on their point totals.
3. Verify that the learner with the highest points is at the top of the leaderboard.
4. Check that the leaderboard accurately reflects the point totals assigned to each learner.

* **Postconditions:**

- * Leaderboard is accessible and displays correctly.

* **Expected Result:**

- * Learners are displayed on the leaderboard in descending order of their point totals.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 4

* **Test Case ID:** TC_GAM_004

* **Test Case Title:** Verify that badges are awarded for reaching milestones.

* **Test Case Description:** This test case checks if badges are automatically granted to learners upon reaching specific point milestones or completing designated courses.

* **Test Suite:** Gamification Feature

* **Test Priority:** Medium

* **Preconditions:**

- * Point milestones and corresponding badges are defined in the system configuration.

- * A learner account is created and logged in.

* **Test Data:**

- * Point milestones for each badge

* **Test Steps:**

1. Start with a new learner account.
2. Complete activities to earn points and monitor badge acquisition.
3. Verify that badges are awarded to the learner upon reaching the predefined point milestone.

* **Postconditions:**

- * The learner's profile displays the earned badges.

* **Expected Result:**

- * Learners receive badges at designated point milestones, as defined in the system configuration.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 5

* **Test Case ID:** TC_GAM_005

* **Test Case Title:** Verify that learners can view their progress in a gamification dashboard

* **Test Case Description:** This test case confirms that learners can access a dedicated dashboard to track their progress in the gamification system.

* **Test Suite:** Gamification Feature

* **Test Priority:** Medium

* **Preconditions:**

- * A learner account is created and logged in.

* **Test Data:**

- * Points, level achieved, badges earned by the learner

* **Test Steps:**

1. Navigate to the gamification dashboard section.
2. Verify that the dashboard displays the learner's current point total, level, and badges earned.
3. Check that the dashboard provides a visual representation of progress toward the next level.

* **Postconditions:**

- * The gamification dashboard is accessible and displays progress information.

* **Expected Result:**

* Learners can effectively monitor their gamification progress through the dedicated dashboard.

* **Severity:** Minor

* **Priority:** Medium

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

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Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Multilingual Support

Feature description -

The platform offers robust multilingual support, catering to learners from diverse linguistic backgrounds and facilitating access to educational resources in their preferred language. Through multilingual interfaces, course materials, and support services, the platform ensures inclusivity, accessibility, and cultural relevance for all learners.

Userstory title -

As a learner, I want multilingual support so that I can access the platform in my preferred language.

Acceptance criteria -

['The platform interface is available in multiple languages.', 'Course materials are available in different languages.', 'Learners can select their preferred language at any time.', 'Multilingual support includes translated help and support resources.', 'Instructors can provide content in multiple languages.']

Generated Test Cases:

Test Cases for Multilingual Support Feature

User Story: As a learner, I want multilingual support so that I can access the platform in my preferred language.

Test Case 1:

Test Case ID: MLS-001

Test Case Title: Verify that the platform interface is available in multiple languages.

Test Case Description: This test case will verify the availability of the platform interface in various languages as specified. It will ensure that all main navigation elements, settings, buttons, and informational texts are translated accurately.

Test Suite: User Interface Testing

Test Priority: High

Preconditions:

- The platform is accessible.

- The desired languages are configured for testing.

Test Data: List of target languages to be tested.

Test Steps:

1. Access the platform.

2. Navigate to the language selection settings.
3. Select each target language from the list.
4. Verify that all interface elements are displayed correctly in the selected language.
5. Ensure that any transliteration or character encoding is handled properly.

* **Postconditions:**

- * The user is logged out of the platform.

* **Expected Result:** The platform interface will display correctly in all selected languages without any grammatical or formatting errors.

* **Severity:** Blocker

* **Priority:** High

* **Type of Testing:** Functional Testing, User Interface Testing

****Test Case 2:****

* **Test Case ID:** MLS-002

* **Test Case Title:** Verify that course materials are available in different languages.

* **Test Case Description:** This test case will verify the availability of learning materials like video lectures, text resources, quizzes, and downloadable content in different languages.

* **Test Suite:** Content Testing

* **Test Priority:** High

* **Preconditions:**

- * A course with content in multiple languages is available.

* **Test Data:** List of target languages and corresponding relevant course content.

* **Test Steps:**

1. Access the platform and select the desired course.
2. Navigate to different sections of the course (e.g., modules, lessons, quizzes).

3. Verify that all text-based content, audio transcripts, and closed captions are translated accurately in the selected language.

4. Downloads (PDFs, presentations) should be accessible in the chosen language.

* **Postconditions:**

* The user navigates back to the homepage of the platform.

* **Expected Result:** Course materials will be displayed accurately and completely in all selected languages.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, Content Testing

****Test Case 3:****

* **Test Case ID:** MLS-003

* **Test Case Title:** Verify that learners can select their preferred language at any time.

* **Test Case Description:** This test case will verify the functionality of the language selection mechanism.

Learners must be able to change their preferred language at any time without losing progress or data.

* **Test Suite:** User Interface Testing

* **Test Priority:** Medium

* **Preconditions:**

* The user is logged into the platform.

* **Test Data:** Multiple target languages

* **Test Steps:**

1. Log in as a learner and access the platform in one language.

2. Navigate to the language selection settings.

3. Select a different target language.

4. Verify that the entire platform interface seamlessly switches to the chosen language.

5. Reaccess previously visited pages and confirm the language change persists.

* **Postconditions:**

* Users will be logged into the updated preferred language.

* **Expected Result:** The platform will adapt to the new language selection instantly and maintain consistency across all platform sections.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing, User Interface Testing

Test Case 4:

* **Test Case ID:** MLS-004

* **Test Case Title:** Verify that Multilingual support includes translated help and support resources.

* **Test Case Description:** This test case will check if all help documentation, user guides, FAQs, and support contact information are translated into the available languages.

* **Test Suite:** Support Services Testing

* **Test Priority:** Medium

* **Preconditions:**

* Access to the platform's help center or support sections.

* **Test Data:** List of target languages and relevant support information topics.

* **Test Steps:**

1. Access the platform's help center or support documentation.

2. Navigate to different sections (e.g., FAQs, troubleshooting guides, contact information).

3. Verify that all textual content related to support is available in the selected language.

* **Postconditions:**

* The user navigates back to the platform's homepage.

* **Expected Result:** Help resources and support information will be accurately translated into all target languages.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

Test Case 5:

* **Test Case ID:** MLS-005

* **Test Case Title:** Verify that instructors can provide content in multiple languages.

* **Test Case Description:**

This test case will ensure instructors can upload or create content in various languages and learners can access it accordingly.

* **Test Suite:** Instructor Dashboard Testing

* **Test Priority:** Medium

* **Preconditions:**

* An instructor account with access to create new content.

* **Test Data:** Educational materials (text or audio) in multiple languages.

* **Test Steps:**

1. Log in as an instructor.

2. Create a new lesson or module.

3. Upload educational materials in the desired languages.

4. Verify that learners enrolled in the course can access the content in their selected language.

* **Postconditions:**

* The instructor logs out of the platform.

* **Expected Result:** The platform will allow instructors to add multilingual content, and learners can access it based on their language preference.

* **Severity:** Minor

* **Priority:** Medium

* **Type of Testing:** Functional Testing, Content Testing

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Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and

topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Accessibility Features

Feature description -

The platform prioritizes accessibility by incorporating features such as screen reader compatibility, adjustable font sizes, and color contrast options. These accessibility features ensure that learners with disabilities can access and navigate the platform with ease, promoting inclusivity and equitable access to educational opportunities.

Userstory title -

As a learner with disabilities, I want accessibility features so that I can use the platform effectively.

Acceptance criteria -

['The platform is compatible with screen readers.', 'Learners can adjust font sizes for better readability.', 'Color contrast options are available for improved visibility.', 'Accessibility features are easy to activate and customize.', 'Support resources are available to assist learners with disabilities.']

Generated Test Cases:

Test Cases for Online Learning Platform - Accessibility Features

User Story: As a learner with disabilities, I want accessibility features so that I can use the platform effectively.

Test Suite: Accessibility Feature Suite

Testing Type: System Testing, Usability Testing

Test Case 1: Verify that the platform is compatible with screen readers.

****Test Case Description:**** This test case evaluates the platform's compatibility with screen readers by navigating through various elements and verifying that they are accurately announced.

****Preconditions:****

- * A screen reader is installed and configured on the testing device.
- * A user account is created for testing purposes.

****Test Data:**** None

****Test Steps:****

1. Open the platform using a screen reader.
2. Navigate through the platform's main menu, courses, lectures, and resources using the screen reader's navigation keys.
3. Verify that all elements, such as headings, buttons, links, images, and text, are correctly identified and announced by the screen reader.
4. Interact with interactive elements like videos, quizzes, and discussion forums using the screen reader and confirm they are accessible.

****Postconditions:**** None

****Expected Result:**** All elements on the platform are announced clearly and accurately by the screen reader, allowing users to navigate and interact with the platform effectively.

****Severity:**** Critical

****Priority:** High**

****Test Case Approach:** Positive**

Test Case 2: Verify that learners can adjust font sizes for better readability.

****Test Case Description:**** This test case ensures learners can modify font sizes to their preference for enhanced readability.

****Preconditions:****

* A user account is created for testing purposes.

****Test Data:****

* Various font sizes (smaller, medium, larger)

****Test Steps:****

1. Log in to the platform.
2. Navigate to a course or resource with text content.
3. Locate the font size adjustment option within the platform's settings or UI.
4. Select different font sizes (e.g., smaller, medium, larger).
5. Verify that the text content adjusts accordingly to the selected font size.

****Postconditions:**** None

****Expected Result:**** Learners can comfortably adjust the font size to their preferred level, improving text readability.

****Severity:**** Major

****Priority:**** High

****Test Case Approach:**** Positive

Test Case 3: Verify that color contrast options are available for improved visibility.

****Test Case Description:**** This test case ensures the platform offers color contrast options to enhance visibility for users with color vision deficiencies.

****Preconditions:****

* A user account is created for testing purposes.

****Test Data:****

* Different color contrast modes (high, low)

****Test Steps:****

1. Log in to the platform.

2. Locate the color contrast adjustment option within the platform's settings or UI.
3. Select different color contrast modes (e.g., high, low).
4. Verify that the website's colors and text contrast adjust according to the selected mode.
5. Ensure sufficient contrast between text and background colors for optimal visibility.

****Postconditions:**** None

****Expected Result:**** Users can personalize the platform's color scheme to a preferred contrast level, improving accessibility for users with color vision deficiencies.

****Severity:**** Major

****Priority:**** High

****Test Case Approach:**** Positive

Test Case 4: Verify that accessibility features are easy to activate and customize.

****Test Case Description:**** This test case evaluates the ease of access and customization of accessibility features for users.

****Preconditions:****

* A user account is created for testing purposes.

* The user is familiar with basic platform navigation.

****Test Data:**** None

****Test Steps:****

1. Log in to the platform.
2. Locate and access the platform's accessibility settings or configuration area.
3. Verify that the navigation and labels within the accessibility settings are clear and intuitive.
4. Actively toggle various accessibility features, such as screen reader compatibility, font size adjustments, and color contrast options.
5. Confirm that each feature activates reliably and the changes are reflected visibly on the platform.

****Postconditions:**** None

****Expected Result:**** Users can easily locate, activate, and customize accessibility features within a user-friendly interface.

****Severity:**** Minor

****Priority:**** Medium

****Test Case Approach:**** Positive

Test Case 5: Verify that support resources are available to assist learners with disabilities.

****Test Case Description:**** This test case checks the availability and accessibility of support resources for learners encountering difficulties.

****Preconditions:****

* A user account is created for testing purposes.

****Test Data:**** None

****Test Steps:****

1. Open the platform.
2. Locate the support or help section.
3. Explore available resources, such as FAQs, contact information, or dedicated accessibility support channels.
4. Verify that the resources are easy to find, user-friendly, and provide relevant information on accessibility features and troubleshooting.

****Postconditions:**** None

****Expected Result:**** Learners can easily access comprehensive support resources and get assistance with accessibility features or related issues.

****Severity:**** Minor

****Priority:**** High

****Test Case Approach:**** Positive

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Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Discussion Moderation

Feature description -

Instructors actively moderate discussion forums to maintain a conducive learning environment, ensure respectful discourse, and enforce community guidelines. By facilitating constructive interactions and discouraging disruptive behavior, discussion moderation fosters a positive and collaborative learning atmosphere for all participants.

Userstory title -

As an instructor, I want to moderate discussions so that I can maintain a positive and respectful learning environment.

Acceptance criteria -

['Instructors can edit, delete, or highlight posts in discussions.', 'Instructors can mute or ban disruptive users.', 'Moderation actions are logged and reported.', 'Community guidelines are visible to all participants.', 'Notifications are sent for moderated actions.']

Generated Test Cases:

Test Cases for Discussion Moderation Feature

****Test Case ID:**** TC_DISMOD_001

****Test Case Title:**** Verify that instructors can edit posts in discussions.

****Test Case Description:**** This test case verifies the functionality of the "edit" feature for instructors within discussion forums.

****Test Suite:**** Moderation Feature

****Test Priority:**** High

****Preconditions:****

- * An instructor account is logged in.
- * An existing discussion forum is available.
- * An instructor has posted a message in the discussion forum.

****Test Data:****

- * Sample message for editing (containing basic text and formatting).

****Test Steps:****

1. Navigate to the discussion forum.
2. Locate the instructor's previously posted message.
3. Click on the "edit" button associated with the message.
4. Modify the content of the message.
5. Click on the "save changes" button.

****Postconditions:****

- * Edited message should be reflected in the discussion forum.
- * The timestamp of the message should reflect the time of the last edit.

****Expected Result:****

The instructor's edited message is successfully displayed in the discussion forum.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****__****

****Test Case ID:** TC_DISMOD_002**

****Test Case Title:**** Verify that instructors can delete posts in discussions.

****Test Case Description:**** This test case verifies the functionality of the "delete" feature for instructors within discussion forums.

****Test Suite:**** Moderation Feature

****Test Priority:**** High

****Preconditions:****

- * An instructor account is logged in.
- * An existing discussion forum is available.
- * An instructor has posted a message in the discussion forum.

****Test Data:****

- * A test message for deletion.

****Test Steps:****

1. Navigate to the discussion forum.
2. Locate the instructor's previously posted message.
3. Click on the "delete" button associated with the message.
4. Confirm the deletion in the pop-up dialog box.

****Postconditions:****

- * Deleted message should be removed from the discussion forum.
- * A notification should be sent to all participants regarding the deleted post.

****Expected Result:****

The instructor successfully deletes the specified message from the discussion forum.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****__****

****Test Case ID:** TC_DISMOD_003**

****Test Case Title:** Verify that instructors can highlight posts in discussions.**

****Test Case Description:** This test case verifies the functionality of the "highlight" feature for instructors within discussion forums.**

****Test Suite:** Moderation Feature**

****Test Priority:** Medium**

****Preconditions:****

- * An instructor account is logged in.
- * An existing discussion forum is available.

****Test Data:****

- * A test message to be highlighted.

****Test Steps:****

1. Navigate to the discussion forum.
2. Locate the desired message to be highlighted.
3. Click on the "highlight" button associated with the message.

****Postconditions:****

- * Highlighted message should visually stand out in the discussion forum.
- * A notification should be sent to the author of the highlighted message.

****Expected Result:****

The instructor successfully highlights the specified message in the discussion forum, making it more prominent for participants.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****__****

****Test Case ID:** TC_DISMOD_004**

****Test Case Title:** Verify that instructors can mute disruptive users.**

****Test Case Description:** This test case verifies the functionality of the user-muting feature for instructors within discussion forums.**

****Test Suite:** Moderation Feature**

****Test Priority:** High**

****Preconditions:****

* An instructor account is logged in.

* An existing discussion forum is available.

* A disruptive user account is created and participating in the forum.

****Test Data:****

* Test comment/message exhibiting disruptive behavior.

****Test Steps:****

1. Navigate to the discussion forum.
2. Identify the disruptive user and their comment.
3. Use the moderator controls to mute the disruptive user.

****Postconditions:****

- * The muted user should be unable to post new messages in the forum.
- * A notification should be sent to the muted user informing them of the mute status.
- * The instructor should receive confirmation of the mute action.

****Expected Result:****

The disruptive user is successfully muted, preventing further disruptive contributions to the forum.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive/Negative

****__****

****Test Case ID:**** TC_DISMOD_005

****Test Case Title:**** Verify that moderation actions are logged and reported.

****Test Case Description:**** This test case verifies that all moderator actions within the discussion forum are correctly logged and presented in a reportable format.

****Test Suite:**** Moderation Feature

****Test Priority:**** Medium

****Preconditions:****

* An instructor account is logged in and has moderator privileges.

* An existing discussion forum is available.

****Test Data:****

* A script for performing multiple moderator actions (muting, deleting, highlighting posts).

****Test Steps:****

1. Execute the pre-defined script, performing various moderation actions on different posts and users within the forum.
2. Access the moderation log for the discussion forum.

****Postconditions:****

- * All moderator actions performed in the script should be clearly listed in the log.

****Expected Result:****

The moderation log accurately reflects all instructor actions taken within the discussion forum, including user mutes, post deletions, and highlights.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional Testing, Regression Testing**

****Test Case Approach:** Positive**

Remember to tailor these test cases to fit the specific implementation and design of the Online Learning Platform. You can add more test cases based on specific scenarios and edge cases uncovered during development.

Data - 64

Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Learning Analytics

Feature description -

Instructors leverage robust learning analytics dashboards to gain insights into learner engagement, performance trends, and course effectiveness. By analyzing data on learner interactions, progress, and outcomes, instructors can make informed decisions, personalize instruction, and optimize the learning experience to meet learners' needs effectively.

Userstory title -

As an instructor, I want access to learning analytics so that I can understand learner engagement and performance.

Acceptance criteria -

['Learning analytics dashboards display engagement metrics.', 'Performance trends are visualized over time.',

'Instructors can access detailed reports on learner progress.', 'Analytics data is updated in real-time.',
'Instructors can export analytics reports for further analysis.']

Generated Test Cases:

Okay, here are 5 test cases for the "Learning Analytics" feature of the Online Learning Platform, each addressing one or more acceptance criteria:

****Test Case 1****

* **Test Case ID:** TC_LA_001

* **Test Case Title:** Verify that engagement metrics are displayed on the learning analytics dashboard

* **Test Case Description:** This test case verifies that the learning analytics dashboard presents relevant engagement metrics, such as learner login frequency, average time spent per course, and video view completion rate, to instructors.

* **Test Suite:** Learning Analytics

* **Test Priority:** High

* **Preconditions:**

- * An instructor account is logged in.

- * A course with at least one learner enrolled is available.

* **Test Data:**

* **No test data needed**

* **Test Steps:**

1. Navigate to the Learning Analytics dashboard.
2. Verify that the dashboard displays metrics such as total learners, average login time, course completion rate, and discussion forum participation.
3. Click on a specific course to view more detailed engagement metrics for that course.

* **Postconditions:**

- * Dashboard is closed.

* **Expected Result:** The dashboard displays a comprehensive set of engagement metrics for learners and courses, allowing instructors to track learner activity.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 2

* **Test Case ID:** TC_LA_002

* **Test Case Title:** Verify that performance trends are visualized over time

* **Test Case Description:** This test case confirms that the learning analytics dashboard provides visual representations (e.g., charts, graphs) of performance trends for learners over a period, enabling instructors to identify areas requiring intervention or adjustments.

* **Test Suite:** Learning Analytics

* **Test Priority:** High

* **Preconditions:**

- * An instructor account is logged in.

- * A course with learner data (e.g., quiz scores, assignment submissions) is available.

* **Test Data:**

* **No test data needed**

* **Test Steps:**

1. Navigate to the Learning Analytics dashboard.
2. Select a specific course from the list.
3. Choose a performance metric (e.g., quiz score).

4. Verify that a visual representation (e.g., line graph) displays performance trends for the selected metric over time.

* **Postconditions:**

- * Dashboard is closed.

* **Expected Result:** The dashboard displays clear and visually compelling graphs illustrating learner performance trends for the chosen metric over a defined time frame.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 3

* **Test Case ID:** TC_LA_003

* **Test Case Title:** Verify access to detailed learner progress reports

* **Test Case Description:** This test case ensures instructors can access in-depth reports showcasing individual learner progress within a course, covering specific modules, assignments, and quiz results.

* **Test Suite:** Learning Analytics

* **Test Priority:** Medium

* **Preconditions:**

- * An instructor account is logged in.

- * A course with learner enrollments is available.

* **Test Data:**

* Mock learner data with varying progress levels (completed modules, quizzes, etc.)

* **Test Steps:**

1. Navigate to the "Learner Progress" section of the Learning Analytics dashboard.
2. Select a specific learner from the list.
3. Verify that a detailed report is displayed, showing progress through modules, quiz scores for each attempt, and assignment submission status.

* **Postconditions:**

* Learner progress report is closed.

* **Expected Result:** The report provides a comprehensive picture of the selected learner's progress within the course, highlighting areas of strength and potential areas needing attention.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 4

* **Test Case ID:** TC_LA_004

* **Test Case Title:** Verify real-time data updates in analytics

* **Test Case Description:** This test case confirms that analytics data on the dashboard is refreshed in real-time, reflecting instantaneous learner interactions and performance changes.

* **Test Suite:** Learning Analytics

* **Test Priority:** High

****Preconditions:****

- * An instructor account is logged in.
- * Learners are actively engaged with the course (e.g., viewing videos, submitting assignments).

****Test Data:****

- * Data reflecting evolving learner interactions within a course (simulated or real data).

****Test Steps:****

1. Navigate to the Learning Analytics dashboard.
2. Observe a currently active learner metric (e.g., login time, video view time).
3. While monitoring the dashboard, have a learner perform an action on the platform (e.g., complete a quiz, log in, view a video).
4. Verify that the metric on the dashboard updates immediately to reflect the learner's action.

****Postconditions:****

- * Dashboard is closed.

****Expected Result:**** Analytics data on the dashboard dynamically updates to reflect learner actions in real-time, providing instructors with the most current information.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case 5****

****Test Case ID:**** TC_LA_005

****Test Case Title:**** Verify export functionality of analytics reports

* **Test Case Description:** This test case checks the instructor's ability to export analytics reports from the dashboard in a usable format (e.g., CSV, PDF).

* **Test Suite:** Learning Analytics

* **Test Priority:** Medium

* **Preconditions:**

- * An instructor account is logged in.

- * At least one analytics report containing data is available (either real or simulated).

* **Test Data:**

- * Mock data in the analytics report.

* **Test Steps:**

1. Navigate to the desired analytics report on the dashboard.

2. Locate the "Export" or "Download" functionality for the report.

3. Select a supported export format (e.g., CSV, PDF).

4. Verify that the report is downloaded to the expected location (e.g., Downloads folder) in the chosen format.

* **Postconditions:**

- * Downloaded report is reviewed.

* **Expected Result:** The report is successfully exported in the chosen format, allowing instructors to analyze and utilize the data offline or within other applications.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Let me know if you'd like to add more detail to any of these test cases, or if you have a specific scenario you'd like to test.

Data - 65

Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Social Learning Features

Feature description -

The platform integrates social learning features such as group projects, peer collaboration tools, and social sharing functionalities to foster community engagement and knowledge exchange. By facilitating interaction, networking, and collaboration among learners, social learning features enrich the learning experience and promote peer-to-peer support and mentorship.

Userstory title -

As a learner, I want social learning features so that I can collaborate with peers and engage in group projects.

Acceptance criteria -

['Learners can create and join groups for projects.', 'Collaboration tools are available for group communication.', 'Learners can share resources and feedback within groups.', 'Instructors can assign group projects and monitor progress.', 'Social sharing features allow learners to share achievements.']

Generated Test Cases:

Test Cases for Social Learning Features

****User Story:**** As a learner, I want social learning features so that I can collaborate with peers and engage in group projects.

****Test Suite:**** Social Learning Features

****Project Context:**** Online Learning Platform

****Test Cases:****

****Test Case ID:**** SLC-001

****Test Case Title:**** Verify that learners can create new groups for projects.

****Test Case Description:**** This test case verifies the functionality of creating new groups for projects by a registered learner.

****Test Priority:**** High

****Preconditions:****

- * User must be logged into the platform as a learner.
- * The learner has not created any groups previously.
- * The platform is functioning normally.

****Test Data:****

- * Valid group name (e.g., "Math Project Group")
- * Description for the group (e.g., "Students collaborating on a math unit")
- * Number of members allowed in the group (e.g., 4)

****Test Steps:****

1. Navigate to the "Social" section of the platform.

2. Click on the "Create Group" button.
3. Enter a valid group name, description, and maximum number of members.
4. Click "Create Group" to finalize the creation.
5. Verify that a new group with the specified name and details is displayed.

****Postconditions:****

- * The created group will be listed in the learner's profile.
- * The learner can access the group's details and settings.

****Expected Result:**** The group should be created successfully, and the learner should be able to view and manage it.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** SLC-002

****Test Case Title:**** Verify that learners can join existing groups for projects.

****Test Case Description:**** This test case verifies the functionality of joining existing groups for projects by a registered learner.

****Test Priority:**** High

****Preconditions:****

- * User must be logged into the platform as a learner.
- * An existing group with an available slot for new members has already been created.
- * The platform is functioning normally.

****Test Data:****

- * ID or name of the existing group

****Test Steps:****

1. Navigate to the "Social" section of the platform.
2. Locate the group which the user wishes to join.
3. Click on the "Join Group" button.
4. Verify that the learner is successfully added to the group.

****Postconditions:****

- * The joined group will be listed in the learner's profile.
- * The learner can access the group's discussions, resources, and project tasks.

****Expected Result:**** The learner should be able to join the group successfully, and their profile should reflect their membership.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** SLC-003

****Test Case Title:**** Verify that collaboration tools function within groups for project work.

****Test Case Description:**** This test case verifies the functionality of built-in collaboration tools within a group for project tasks. It will include

****Test Priority:**** Medium

****Preconditions:****

- * A group already exists with at least two members. (e.g. User A and User B)

* The group has an active project or discussion.

* The platform is functioning normally.

****Test Data:****

* Messages to be sent in group chat

* Files to be shared within the group

****Test Steps:****

1. User A navigates to the group space
2. Sends a message to the group chat.
3. User B verifies receiving the message and responds.
4. User A uploads a relevant file to the shared resources.
5. User B verifies the file is accessible within the group.

****Postconditions:****

* The chat history should show sent and received messages by both users.

* The shared file should be accessible to all group members.

****Expected Result:**** Both users are able to communicate through chat and share files within the group project space.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:** SLC-004**

****Test Case Title:**** Verify that instructors can assign group projects to learners.

****Test Case Description:**** This test case verifies the instructor's capability to assign group projects and related tasks to learners.

****Test Priority:**** High

****Preconditions:****

* User must be logged into the platform as an instructor responsible for a course.

* A course with student enrollment has been created.

* The platform is functioning normally.

****Test Data:****

* Title for the group project (e.g. "Understanding Ecosystems")

* Detailed project description

* Due date for the project

* Submission guidelines

****Test Steps:****

1. navigate to the relevant course page.
2. Access the "Assignments" or "Projects" section.
3. Click on the "Create New Assignment" or "Create New Project" button.
4. Enter the project title, description, due date, and any specific instructions.
5. Set the project to be group based and define the number of members per group.

****Postconditions:****

- * An announcement about the new project should be sent to all enrolled learners
- * Learners can view the project details and join groups or await instructor-assigned groups.

****Expected Result:**** The instructor successfully creates a group project, sets the parameters, and notifies learners.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

*

Let me know if you need me to elaborate on a particular test case or generate additional test cases!

Data - 66

Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Content Authoring Tools

Feature description -

Instructors utilize powerful content authoring tools to create and publish course content, including multimedia presentations, interactive modules, and rich media resources. These authoring tools empower instructors to design engaging and interactive learning materials that cater to diverse learning styles and preferences, enhancing the effectiveness and impact of instruction.

Userstory title -

As an instructor, I want powerful content authoring tools so that I can create engaging and interactive course materials.

Acceptance criteria -

['Instructors can create multimedia presentations.', 'Interactive modules can be developed and integrated.', 'Rich media resources, such as videos and animations, are supported.', 'Content authoring tools are user-friendly and intuitive.', 'Instructors can preview and edit content before publishing.']

Generated Test Cases:

Test Cases for Content Authoring Tools Feature

****Project Context:**** Online Learning Platform

****Feature Name:**** Content Authoring Tools

****User Story:**** As an instructor, I want powerful content authoring tools so that I can create engaging and interactive course materials.

****Test Case ID:**** TC-CA-01

****Test Case Title:**** Verify that instructors can create multimedia presentations.

****Test Case Description:**** This test case verifies the functionality of the multimedia presentation creation

feature within the content authoring tools. It will ensure instructors can upload, edit, and arrange images, videos, and audio files to create engaging presentations.

****Test Suite:**** Content Authoring Tools

****Test Priority:**** High

****Preconditions:****

- * Instructor account is created and logged in.
- * Access to the content authoring tool is granted.
- * Sample media files (image, video, audio) are uploaded to the platform.

****Test Data:****

- * Design template for presentation from the library or user-created template.
- * Sample media files for inclusion.

****Test Steps:****

1. Navigate to the content authoring tool.
2. Select "Create New Presentation" from the available options.
3. Choose a pre-designed template or create a custom one.
4. Upload the sample media files (image, video, and audio) to the presentation.
5. Arrange and edit the media elements using the available tools (e.g., resizing, adding captions, transitions).
6. Preview the presentation to ensure all media files are displayed correctly and in the desired order.

****Postconditions:****

- * The presentation is saved and accessible to the instructor.
- * No errors or unexpected behavior is observed during media upload or arrangement.

****Expected Result:**** The instructor can successfully create a multimedia presentation using the available tools and preview it without issues.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, User Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC-CA-02

****Test Case Title:**** Verify that interactive modules can be developed and integrated.

****Test Case Description:**** This test case validates the functionality of building interactive modules within the content authoring tool and their seamless integration into courses. It will assess the inclusion of elements like drag-and-drop, quizzes, and conditional branching.

****Test Suite:**** Content Authoring Tools

****Test Priority:**** High

****Preconditions:****

- * Instructor account is created and logged in.
- * Access to the content authoring tool is granted.
- * A basic course structure is available for integration.

****Test Data:****

- * Predefined interactive module template or structure.
- * Sample content for drag-and-drop, quiz questions, and conditional branching.

****Test Steps:****

1. Open the content authoring tool and select the "Create Interactive Module" option.
2. Choose a pre-existing template or build a custom module.
3. Add content relevant to the module type, including drag-and-drop elements, quiz questions, and branching logic.
4. Structure the module flow, ensuring smooth transitions between various interactions.
5. Preview the module to validate the functionality of all elements and expected user flow.

6. Integrate the completed module into the existing course structure.

****Postconditions:****

* The interactive module is saved and accessible within the course.

* No errors or unexpected behavior is observed during module creation, integration, or interaction.

****Expected Result:**** The instructor can successfully develop and integrate interactive modules into the course, providing engaging learning experiences.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, User Acceptance Testing

****Test Case Approach:**** Positive

Please note that this is a partial set of test cases. There are many other aspects of content authoring tools that need to be tested, such as the import/export functionality, collaboration features, accessibility, and performance.

Data - 67

Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Learning Paths and Curriculum

Feature description -

The platform offers structured learning paths and curricula to guide learners through sequential courses, modules, and topics aligned with specific learning objectives. By providing clear pathways and learning trajectories, the platform streamlines the learning process, facilitates skill development, and ensures coherence and continuity in learners' educational journeys.

Userstory title -

As a learner, I want structured learning paths and curricula so that I can achieve my learning objectives in a systematic manner.

Acceptance criteria -

['Learning paths include sequential courses and modules.', 'Curricula are aligned with specific learning objectives.', 'Learners can track their progress within a learning path.', 'Instructors can customize learning paths for different needs.', 'Notifications are sent for upcoming courses or milestones.']

Generated Test Cases:

Test Cases for Online Learning Platform: Learning Paths and Curriculum

****Test Case ID:**** LP_001

****Test Case Title:**** Verify that learning paths include sequential courses and modules.

****Test Case Description:**** This test case verifies the structure of a learning path, ensuring that courses and modules are presented in a logical, sequential order.

****Test Suite:** Feature - Learning Paths and Curriculum**

****Test Priority:** High**

****Preconditions:****

* An administrator has created a learning path with multiple courses and modules.

* A learner account is available.

****Test Data:****

* A pre-defined learning path with courses and modules sequenced logically.

****Test Steps:****

1. Log in as a learner.
2. Navigate to the learning paths section.
3. Select the pre-defined learning path.
4. Observe the order of presentation of courses and modules.
5. Verify that courses and modules are presented sequentially, reflecting the intended learning trajectory.

****Postconditions:** No specific postconditions.**

****Expected Result:** Courses and modules within the learning path are displayed in a clear and logical sequence, reflecting the intended learning progression.**

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:**** LP_002

****Test Case Title:**** Verify that curricula are aligned with specific learning objectives.

****Test Case Description:**** This test case checks if the content within courses and modules within a learning path aligns with the stated learning objectives.

****Test Suite:**** Feature - Learning Paths and Curriculum

****Test Priority:**** High

****Preconditions:****

* An administrator has created a learning path with learning objectives defined.

* A learner account is available.

****Test Data:****

* A learning path with clearly defined learning objectives for each course and module.

****Test Steps:****

1. Log in as a learner.
2. Select the learning path in question.
3. Enroll in one course from this path.
4. Review the learning materials, assessments, and activities within the course.
5. Compare the acquired knowledge and skills from the course with the declared learning objectives.
6. Repeat steps 3-5 for at least three modules within the same learning path.

****Postconditions:**** No specific postconditions.

****Expected Result:**** The content within each course and module helps learners achieve the specific learning objectives defined for that element within the learning path.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** LP_003**

****Test Case Title:** Verify learners can track their progress within a learning path.**

****Test Case Description:** This test case ensures learners can accurately monitor their progress through a learning path.**

****Test Suite:** Feature - Learning Paths and Curriculum**

****Test Priority:** Medium**

****Preconditions:****

* A learner account is available.

* A learning path is created with multiple courses and modules.

* A learner has enrolled in the learning path and completed some course modules.

****Test Data:****

* Simulated progress data for the learner within the learning path.

****Test Steps:****

1. Log in as the learner.
2. Access the learning path from the learner dashboard.
3. Review the progress tracking interface, noting the percentage complete or visual indicators.
4. Verify that the progress correctly reflects the completed courses and modules.

5. Attempt to access a locked course or module outside the sequence.
6. Verify that progress tracking mechanisms prevent premature access or advancement.

****Postconditions:**** No specific postconditions.

****Expected Result:**** Learners can clearly see their progress through the learning path, with accurate representations of completed content and locked content highlighting the learning progression.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** LP_004

****Test Case Title:**** Verify instructors can customize learning paths for different needs.

****Test Case Description:**** This test case checks the instructor's ability to adjust learning paths to accommodate diverse learning requirements.

****Test Suite:**** Feature - Learning Paths and Curriculum

****Test Priority:**** Medium

****Preconditions:****

* An instructor account is available.

* A learning path exists with pre-defined courses and modules.

****Test Data:****

* A set of alternative courses or modules suitable for customization.

****Test Steps:****

1. Log in as an instructor.
2. Access the learning path to be customized.
3. Use the platform's interface to add, remove, or rearrange courses and modules.
4. Save the changes to create a customized version of the learning path.
5. Verify the customized learning path reflects the instructor's modifications.

****Postconditions:**** No specific postconditions.

****Expected Result:**** Instructors can successfully modify existing learning paths by adding, removing, or rearranging content to cater to specific learner needs or objectives.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** LP_005

****Test Case Title:**** Verify notifications are sent for upcoming courses or milestones.

****Test Case Description:**** This test case ensures users receive timely notifications about upcoming courses or significant milestones within a learning path.

****Test Suite:**** Feature - Learning Paths and Curriculum

****Test Priority:**** Medium

****Preconditions:****

* User account is activated with notification settings enabled.

* A learning path is created with upcoming courses or milestones.

****Test Data:****

* Simulated upcoming course or milestone within the learning path.

****Test Steps:****

1. Log in as a user enrolled in the learning path.
2. Set up notification preferences for upcoming courses and milestones.
3. Simulate the designated date for the upcoming course or milestone.
4. Verify a notification is received by the user regarding the upcoming event.

****Postconditions:**** No specific postconditions.

****Expected Result:**** Timely notifications are delivered to users about upcoming courses or milestones within their chosen learning paths.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

These test cases provide a starting point for ensuring the "Learning Paths and Curriculum" feature meets the defined acceptance criteria. Consistent and thorough testing will further contribute to the quality and user experience of the Online Learning Platform.

Data - 68

Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Attendance Tracking

Feature description -

Instructors track learner attendance in live classes and webinars to monitor participation, engagement, and accountability. By recording attendance data and participation metrics, instructors can assess learner engagement, identify areas for improvement, and provide targeted support and intervention as needed.

Userstory title -

As an instructor, I want to track learner attendance so that I can monitor participation and engagement.

Acceptance criteria -

['Attendance is automatically recorded during live sessions.', 'Instructors can view attendance reports for each session.', 'Learners can see their attendance records.', 'Attendance data is integrated with participation metrics.', 'Notifications are sent for missed sessions.']

Generated Test Cases:

Here are 5 detailed test cases for the "Attendance Tracking" feature of the Online Learning Platform,

following the provided template:

****Test Case 1****

* Test Case ID: TC_Attendance_001

* Test Case Title: Verify that attendance is automatically recorded during live sessions.

* Test Case Description: This test case aims to verify that the system correctly records learner attendance during live sessions without manual intervention.

* Test Suite: Attendance Tracking

* Test Priority: High

* Preconditions:

- * A live session should be scheduled and active.

- * At least one learner should be enrolled in the session.

* Test Data: Session ID, Learner IDs

* Test Steps:

1. Log in as an instructor.
2. Access the scheduled live session.
3. Ensure the session is active and learners are present in the session.
4. Allow the session to run for a predefined duration.
5. Log out of the instructor's account.
6. Log in as an instructor and access the session overview.

* Postconditions:

- * Attendance records should be listed for all learners in the session.

* Expected Result: Attendance records display as "Present" for all learners present during the live session.

****Test Case 2****

* Test Case ID: TC_Attendance_002

* Test Case Title: Verify that instructors can view attendance reports for each session.

* Test Case Description: This test case verifies the functionality of the attendance report generation feature for instructors.

* Test Suite: Attendance Tracking

* Test Priority: High

* Preconditions:

- * A live session should have completed with recorded attendance.

* Test Data: Session ID

* Test Steps:

1. Log in as an instructor.
2. Navigate to the session management section.
3. Select the completed live session.
4. Click on the "Generate Attendance Report" button.
5. Review the attendance report for the selected session.

* Postconditions:

- * An attendance report should be downloaded or displayed.

* Expected Result: The report accurately displays the attendance status (Present/Absent) for each learner in the selected session.

****Test Case 3****

* Test Case ID: TC_Attendance_003

* Test Case Title: Verify learners can see their attendance records.

* Test Case Description: This test case confirms learners can access their attendance history within the platform.

* Test Suite: Learner Interface

* Test Priority: Medium

* Preconditions:

* A learner should have participated in at least one live session.

* Test Data: Learner ID

* Test Steps:

1. Log in as a learner.
2. Navigate to the "My Courses" or "My Progress" section.
3. Locate the course containing the attended live session.
4. Access the attendance section of the course.
5. Review the attendance records for the attended session(s).

* Postconditions:

* Attendance records are accessible to the learner.

* Expected Result: The learner's attendance records accurately reflect their presence or absence in live sessions.

****Test Case 4****

* Test Case ID: TC_Attendance_004

* Test Case Title: Verify attendance data is integrated with participation metrics.

* Test Case Description: This test case ensures that attendance data is logically combined with learner participation within the platform.

* Test Suite: Data Integration

* Test Priority: High

* Preconditions:

* A live session should have taken place.

* Learners should have participated in varying degrees (e.g., some active, some passive).

* Test Data: Session ID, Learner IDs

* Test Steps:

1. Log in as an instructor or admin with access to participation data.
2. Access the live session overview or analytics.
3. Review the combined attendance and participation metrics for each learner.
4. Compare participation levels (e.g., questions answered, forum posts) to attendance status.

* Postconditions:

- * Combined data should be available.

* Expected Result: A correlation should be observed between attendance and participation metrics.

****Test Case 5****

* Test Case ID: TC_Attendance_005

* Test Case Title: Verify notifications are sent for missed sessions.

* Test Case Description: This test case validates that the system sends notifications to learners about missed live sessions.

* Test Suite: Notifications

* Test Priority: Medium

* Preconditions:

- * A live session should be scheduled.
- * Learner should be enrolled in the session.
- * Learner email notifications should be enabled.

* Test Data: Learner email address, Session ID

* Test Steps:

1. Schedule a live session for a future date and time.
2. Ensure the learner is enrolled in the session.
3. Allow the session to take place without the learner's attendance.

4. Check the learner's email inbox for a notification regarding the missed session.

* Postconditions:

* A notification should be sent to the learners' email.

* Expected Result: The learner receives a notification within a reasonable timeframe after the live session indicating that they missed the session.

Data - 69

Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Content Licensing and Rights Management

Feature description -

The platform implements robust content licensing and rights management features to protect intellectual property and ensure compliance with copyright laws. By managing content licenses, usage rights, and permissions, the platform safeguards the interests of content creators and providers, enabling secure and lawful distribution of educational materials.

Userstory title -

As a content creator, I want content licensing and rights management so that my intellectual property is

protected and used legally.

Acceptance criteria -

['Content licenses are assigned to each resource.', 'Usage rights and permissions are clearly defined.', 'Content creators can set restrictions on usage and distribution.', 'Instructors and learners are informed of content licensing terms.', 'Notifications are sent for license expiration or renewal.']

Generated Test Cases:

Online Learning Platform - Content Licensing and Rights Management Test Cases

****Test Case ID:** TC_CLRM_001**

****Test Case Title:** Verify that content licenses are assigned to each resource.**

****Test Case Description:** This test case verifies that every uploaded resource on the platform is assigned a valid content license upon creation.**

****Test Suite:** Content Licensing and Rights Management**

****Test Priority:** High**

****Preconditions:****

* A content creator account is created and logged in.

* A new course is created with multiple resource types (e.g., lecture video, downloadable PDF, quiz).

****Test Data:** Predefined content licenses (e.g., Creative Commons Attribution, All Rights Reserved)**

****Test Steps:****

1. Navigate to the resource upload section within the course.
2. Upload various resource types, selecting a different predefined content license for each.
3. Review the uploaded resource details and verify that the assigned content license is displayed accurately.

****Postconditions:****

- * Resources remain accessible.

****Expected Result:**** Each uploaded resource will display a clearly defined content license associated with it.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_CLRM_002

****Test Case Title:**** Verify that usage rights and permissions are clearly defined.

****Test Case Description:**** This test case evaluates the clarity and completeness of information regarding

usage rights and permissions associated with each content license.

****Test Suite:**** Content Licensing and Rights Management

****Test Priority:**** High

****Preconditions:****

- * A content creator is logged in.
- * A resource is uploaded with a specific content license selected (e.g., Creative Commons Attribution).

****Test Data:**** N/A

****Test Steps:****

1. Access the detailed information for the resource displaying the content license.
2. Carefully examine the usage rights and permissions section within the license details.
3. Determine if the information is comprehensible, specific, and clearly outlines permitted and prohibited uses.

****Postconditions:****

- * No modifications are made to the resource.

****Expected Result:****

Usage rights and permissions will be clearly defined, leaving no ambiguity regarding how the resource can be used legally.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_CLRM_003**

****Test Case Title:** Verify content creators can set restrictions on usage and distribution.**

****Test Case Description:** This test case verifies that content creators have the ability to customize usage and distribution restrictions beyond the predefined content license options.**

****Test Suite:** Content Licensing and Rights Management**

****Test Priority:** Medium**

****Preconditions:****

- * A content creator account is logged in.
- * A new resource is ready to be uploaded.

****Test Data:****

- * Predefined content license options

****Test Steps:****

1. Upload the resource, selecting a predefined content license.
2. Locate and verify additional option(s) allowing content creators to impose custom usage and distribution restrictions (e.g., limit downloads, restrict commercial use).
3. Apply specific custom restrictions and confirm these are reflected in the resource details.

****Postconditions:****

- * Uploaded resource remains accessible.

****Expected Result:****

Content creators can set additional, specific restrictions beyond the scope of the chosen content license.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_CLRM_004**

****Test Case Title:** Verify instructors and learners are informed of content licensing terms.**

****Test Case Description:** This test case ensures instructors and learners are presented with clear and accessible information about content licenses before consuming or interacting with learning materials.**

****Test Suite:** Content Licensing and Rights Management**

****Test Priority:** High**

****Preconditions:****

- * An instructor account and a learner account are created and logged in.
- * A course containing licensed content is available to enrolled learners.

****Test Data:** N/A**

****Test Steps:****

1. As an instructor, access the course dashboard and review the resource view. Verify prominent and clear display of the content license associated with each resource.
2. As a learner, enroll in the course. Navigate to the resource view and confirm the presence of clear and concise information regarding the content license.

****Postconditions:****

- * Resources remain accessible.

****Expected Result:****

Both instructors and learners are provided with readily accessible and understandable information about the content license governing each resource.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:** TC_CLRM_005**

****Test Case Title:** Verify notifications are sent for license expiration or renewal.**

****Test Case Description:** This test case checks if the system delivers timely notifications to content creators regarding license expiration or renewal deadlines.**

****Test Suite:** Content Licensing and Rights Management**

****Test Priority:** Medium**

****Preconditions:****

- * A content creator account is logged in.
- * A resource is uploaded with a content license having a definite expiration date.

****Test Data:** License with an expiration date set in the future.**

****Test Steps:****

1. Upload the resource with the specified license.
2. Set a reminder for a future date before the license expiration.
3. Verify accurate notification is sent to the content creator's account alerting them about the approaching license expiration.
4. After the expiration date, verify a notification is sent reminding the creator to renew the license.

****Postconditions:****

* No modification is made to resource.

****Expected Result:****

The system delivers notifications to the content creator at pre-determined intervals regarding upcoming license expiration and renewal deadlines.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Usability Testing

****Test Case Approach:**** Positive

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Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Content Versioning

Feature description -

The platform implements content versioning features, allowing instructors to manage and track multiple versions of course materials. By providing version control, the platform ensures that updates, revisions, and changes are systematically recorded, enabling instructors to maintain a history of content evolution and easily revert to previous versions if needed.

Userstory title -

As an instructor, I want content versioning features so that I can manage and track changes to my course materials.

Acceptance criteria -

['Instructors can create and save multiple versions of content.', 'Version history is maintained and accessible.', 'Instructors can compare different versions of content.', 'Previous versions can be restored if needed.', 'Notifications are sent for significant content updates.']

Generated Test Cases:

Online Learning Platform: Content Versioning Test Cases

Here are 5 test cases for the "Content Versioning" feature, each addressing one or more of the acceptance criteria:

****Test Case ID:** TC_CV_001**

****Test Case Title:** Verify that instructors can create and save multiple versions of content.**

****Test Case Description:**** This test case confirms an instructor's ability to create multiple versions of a single piece of content (e.g., a lecture slide) and save each version with distinct identifiers.

****Test Suite:**** Content Versioning

****Test Priority:**** High

****Preconditions:****

- * Instructor account is created and logged in.
- * A course is available for the instructor to manage.
- * An initial version of course content (e.g., lecture slide) exists within the course.

****Test Data:**** Updated course content with changes (text, images, etc.)

****Test Steps:****

1. Navigate to the course content section within the learning platform.
2. Locate the existing version of the content.
3. Initiate the content versioning process (e.g., click "Create Version").
4. Make specific modifications to the content (e.g., update text, add an image).
5. Save the modified content as a new version with a descriptive name.
6. Verify that the new version is saved and listed separately from the original version within the content version history.

****Postconditions:****

* No issues encountered while creating and saving new versions of the content.

****Expected Result:**** The instructor successfully creates and saves multiple versions of the content with distinct identifiers, reflecting the updates and revisions made.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_CV_002

****Test Case Title:**** Verify that version history is maintained and accessible.

****Test Case Description:**** This test case ensures that the platform accurately records and presents the version history of a course content item, showing creation dates, revision descriptions, and allows review of previous states.

****Test Suite:**** Content Versioning

****Test Priority:** High**

****Preconditions:****

* Three versions of a course content item have been created and saved (as per TC_CV_001).

****Test Data:** All 3 versions of the content item**

****Test Steps:****

1. Navigate to the course content section within the learning platform.
2. Locate the content item.
3. Access the version history associated with the content item.
4. Verify that all three versions are listed chronologically, along with their creation dates and a brief (descriptive) name reflecting the changes made in each version.

****Postconditions:****

*

Accessed version history without encountering errors.

****Expected Result:** A clear and accessible version history is displayed, effectively documenting the evolution of the content item across different versions.**

****Severity:** Major**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive - Reviewing the functionality and data presentation**

****Test Case ID:** TC_CV_003**

****Test Case Title:** Verify that instructors can compare different versions of content.**

****Test Case Description:** This test case validates that instructors have the capability to visually compare two different versions of a content item side-by-side to identify specific changes made between them.**

****Test Suite:** Content Versioning**

****Test Priority:** High**

****Preconditions:****

*** The content item from TC_CV_002 has at least two versions.**

****Test Data:** Version 1 and Version 2 of the content item.**

****Test Steps:****

1. Navigate to the course content section within the learning platform.
2. Locate the content item.
3. Access the version history associated with the content item.
4. Select two different versions (e.g., Version 1 and Version 2) for comparison.
5. Verify that the platform presents a side-by-side comparison view, highlighting the changes made between the selected versions.

****Postconditions:****

* No issues encountered while comparing content versions.

****Expected Result:**** A clear side-by-side comparison view is displayed, effectively showing all the differences between the selected versions of the content item.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_CV_004

****Test Case Title:**** Verify that previous versions can be restored if needed.

****Test Case Description:**** This test case examines the functionality to revert a content item back to a previous version, ensuring data integrity and the ability to undo unwanted changes.

****Test Suite:**** Content Versioning

****Test Priority:**** High

****Preconditions:****

- * The content item from TC_CV_001 has at least two versions.

- * Changes have been made in the current version of the content item.

****Test Data:**** A prior version with desirable content state.

****Test Steps:****

1. Navigate to the course content section.
2. Locate the content item and choose the version with unwanted changes.
3. Initiate the restore process for a previous version (e.g., Version 1) from the version history.
4. Verify that the content item is successfully restored to the state of the selected previous version.

****Postconditions:****

- * The content reflects the restored previous version.

****Expected Result:**** The platform accurately restores the selected previous version of the content item, overwriting the current version with the restored content.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_CV_005

****Test Case Title:**** Verify notifications about significant content updates.

****Test Case Description:**** This test verifies that notification mechanisms function correctly, alerting users (e.g., students) about substantial content updates that could affect their learning experience.

****Test Suite:**** Content Versioning

****Test Priority:**** Medium

****Preconditions:****

* Instructor account is created and logged in.

- * A student account is created and enrolled in the course containing the content item.
- * Significant content changes (e.g., complete rewrite of a lecture, deletion of a crucial resource) are made.

****Test Data:**** Content with substantial updates

****Test Steps:****

1. Instructor logs in and makes significant updates to the content item.
2. Monitor the student account for any notification about the content update.
3. Verify that the notification message clearly indicates the nature of the update and references the specific content item affected.

****Postconditions:****

- * Notification received by the student.

****Expected Result:**** The student receives a timely and informative notification through the user interface (email, in-platform alert) about the significant content update.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:****

This set of test cases provides a good starting point for ensuring the content versioning feature functions as intended. Remember to adapt these test cases to the specific implementation details of the learning platform. It's crucial to consider edge cases, negative scenarios, and different user roles when designing comprehensive test suites.

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Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

API Integration

Feature description -

The platform supports API integration, allowing third-party applications to interact with the platform's data and functionalities. By offering comprehensive API documentation and secure access protocols, the platform enables seamless data exchange and integration with other educational tools and systems.

Userstory title -

As a developer, I want API integration so that I can connect third-party applications to the platform's data and features.

Acceptance criteria -

['APIs are available for key platform functionalities.', 'Comprehensive API documentation is provided.', 'Secure access protocols are implemented.', 'Third-party applications can authenticate and access APIs.', 'Rate limiting and monitoring features are in place.']

Generated Test Cases:

Test Cases for API Integration Feature

****Test Case ID:**** TC-API-001

****Test Case Title:**** Verify that API documentation is comprehensive and user-friendly.

****Test Case Description:**** This test case aims to assess the completeness and clarity of the API documentation provided for the online learning platform.

****Test Suite:**** API Integration

****Test Priority:**** High

****Preconditions:****

- * Internet access
- * Authenticated user access to the API documentation

****Test Data:****

- * Sample API endpoints listed in the documentation

****Test Steps:****

1. Access the API documentation provided on the platform.
2. Navigate through the documentation, exploring sections on data models, API endpoints, authentication methods, and rate limits.
3. Review the examples and code snippets for each API endpoint.

4. Attempt to reproduce the examples and ensure they function as documented.
5. Check if the documentation covers common use cases and potential error scenarios.

****Postconditions:****

* API documentation should be saved and reviewed for completeness.

****Expected Result:**** The API documentation should be comprehensive, well-structured, and easy to understand, providing clear explanations, accurate information, and helpful examples for developers.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional, Documentation Review

****Test Case Approach:**** Positive

****Test Case ID:**** TC-API-002

****Test Case Title:**** Verify that third-party applications can successfully authenticate with the platform's API.

****Test Case Description:**** This test case evaluates the authentication mechanism of the platform's API, ensuring third-party applications can obtain valid access tokens.

****Test Suite:**** API Integration

****Test Priority:**** High

****Preconditions:****

- * Existing valid API credentials for a third-party application
- * A configured API client library for the platform

****Test Data:****

- * Predefined API credentials for a third-party application

****Test Steps:****

1. Configure the API client library with the provided API credentials.
2. Send an API authentication request using the client library.
3. Retrieve the access token from the response.
4. Use the received access token in subsequent API requests to access protected resources.

****Postconditions:****

- * Access token should be securely stored and used in subsequent API calls.

****Expected Result:**** The API authentication request should be successful, granting the third-party application a valid access token that enables access to authorized APIs and features.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional, Security

****Test Case Approach:**** Positive

****Test Case ID:**** TC-API-003

****Test Case Title:**** Verify that rate limiting is implemented and enforced for API requests.

****Test Case Description:**** This test case assesses the functionality of rate limiting mechanisms to prevent

abuse and ensure API stability.

****Test Suite:**** API Integration

****Test Priority:**** Medium

****Preconditions:****

- * API client library configured with valid credentials

****Test Data:****

- * A sequence of API requests exceeding the defined rate limit

****Test Steps:****

1. Send a series of API requests to a resource within a short time interval, exceeding the predefined rate limit.
2. Observe the responses received from the API server.
3. Verify that the API server returns appropriate error responses indicating the rate limit exceedance.
4. Monitor the response codes and messages received to confirm the rate limiting mechanism is enforced.

****Postconditions:****

- * API calls should be limited to the defined rate.

- * Application should handle rate limit exceeded responses appropriately.

****Expected Result:**** The API server should effectively implement rate limiting, returning appropriate error responses when rate limits are exceeded, preventing an overwhelming load on the platform's resources.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional, Performance

****Test Case Approach:**** Negative, Performance

****Test Case ID:** TC-API-004**

****Test Case Title:** Verify that API calls are logged and monitored for security and debugging purposes.**

****Test Case Description:** This test case examines if the platform logs API calls and provides mechanisms for monitoring these interactions.**

****Test Suite:** API Integration**

****Test Priority:** High**

****Preconditions:****

- * API access enabled

- * A mechanism exists for reviewing API logs (e.g., a dashboard, logs file)

****Test Data:** N/A**

****Test Steps:****

1. Perform a series of API calls using the configured API client.
2. Review the API logs to ensure each call is recorded, capturing relevant information such as:
 - * Timestamp
 - * API endpoint accessed
 - * Method used (GET, POST, etc.)
 - * Request parameters
 - * Response status code

****Postconditions:****

- * API logs should be accessible and clearly formatted.

****Expected Result:**** The API logs should comprehensively document all API calls made to the platform, enabling security analysis, debugging purposes, and performance monitoring.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Security, Functional

****Test Case Approach:**** Positive

Data - 72

Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Data Analytics and Insights

Feature description -

The platform provides data analytics and insights features, enabling instructors and administrators to analyze learner performance, engagement, and outcomes. By leveraging data visualization tools and reporting features, the platform helps stakeholders make informed decisions to enhance the learning experience.

Userstory title -

As an administrator, I want data analytics and insights so that I can analyze learner performance and improve the platform's effectiveness.

Acceptance criteria -

['Data visualization tools are available for analysis.', 'Reports can be generated for learner performance metrics.', 'Real-time analytics provide insights into engagement and outcomes.', 'Data can be exported for further analysis.', 'Notifications are sent for significant data trends or anomalies.']

Generated Test Cases:

Test Cases for Data Analytics and Insights Feature

Here are 5 detailed test cases for the "Data Analytics and Insights" feature of the Online Learning Platform, based on the provided user story and acceptance criteria:

****Test Case 1:****

Test Case ID: TC_DA_01

Test Case Title: Verify that data visualization tools are available for learner performance analysis.

Test Case Description: This test case verifies the availability and functionality of data visualization tools, enabling administrators to analyze learner performance metrics.

Test Suite: Data Analytics

Test Priority: High

Preconditions:

- An administrator user account with access to data analytics is logged in.

- At least 10 learners have completed courses with various performance levels.

Postconditions:

- User navigates back to the dashboard.

Test Data: N/A

Test Steps:

1. Log in as an administrator.
2. Navigate to the "Data Analytics" section.
3. Select a data visualization tool, such as a bar chart or line graph.
4. Choose learner performance metrics to visualize (e.g., quiz scores, completion rates).
5. Verify that the chosen visualization tool displays data accurately and allows for interactive exploration (e.g., filtering, sorting).

Expected Result:

Data visualizations will be available and functional, displaying learner performance data accurately and interactively.

Severity: Critical

Priority: High

Type of Testing: Functional Testing

Test Case Approach: Positive

****Test Case 2:****

Test Case ID: TC_DA_02

Test Case Title: Verify that reports can be generated for learner performance metrics.

Test Case Description: This test case verifies the ability to generate reports for various learner performance metrics, enabling administrators to download and analyze data in a comprehensive format.

Test Suite: Data Analytics

Test Priority: High

Preconditions:

- Administrator user account is logged in.
- Data related to learners' progress, quizzes, and assignments is available.

Postconditions:

- User downloads the report successfully.

Test Data: N/A

Test Steps:

1. Log in as an administrator.
2. Navigate to the "Data Analytics" section.
3. Select the desired report type (e.g., course performance report, individual learner report).
4. Specify relevant filters (e.g., course name, date range, learner group).
5. Generate the report and verify that it includes the expected learner performance metrics (e.g., quiz scores, assignment grades, knowledge gaps).
6. Download the report in a suitable format (e.g., CSV, PDF).

Expected Result:

Reports will be generated accurately, containing the specified learner performance metrics and allowing for download.

Severity: Critical

Priority: High

Type of Testing: Functional Testing, Regression Testing

Test Case Approach: Positive

****Test Case 3:****

Test Case ID: TC_DA_03

Test Case Title: Verify that real-time analytics provide insights into learner engagement.

Test Case Description: This test case verifies the functionality of real-time analytics, showing immediate

insights into learner engagement activities.

Test Suite: Data Analytics

Test Priority: Medium

Preconditions:

- Open online courses with active learners.
- Administrator user account is logged in with access to real-time analytics.

Postconditions:

- Administrator examines real-time data and navigates away.

Test Data: N/A

Test Steps:

1. Log in as an administrator.
2. Navigate to the real-time analytics dashboard.
3. Observe live data reflecting learner engagement activities (e.g., video playbacks, quiz attempts, forum posts, resource downloads).
4. Verify the data is updated in real-time and accurately reflects learner interactions.
5. Example: Observe a sudden spike in forum activity for a specific course and compare that to the corresponding data in a course activity report.

Expected Result:

Real-time analytics will accurately and continuously display data on learner engagement activities.

Severity: Major

Priority: Medium

Type of Testing: Functional Testing

Test Case Approach: Positive

****Test Case 4:****

Test Case ID: TC_DA_04

Test Case Title: Verify that data can be exported for further analysis.

Test Case Description: This test case verifies the capability to export data from the platform for more detailed analysis using external tools.

Test Suite: Data Analytics

Test Priority: High

Preconditions:

- Administrator user account is logged in.
- Data related to learner performance, engagement, and course details is available.

Postconditions:

- User successfully exports data in an appropriate format.

Test Data: N/A

Test Steps:

1. Log in as an administrator.
2. Navigate to the "Data Analytics" section.
3. Select the desired data set for export (e.g., all learner data, course completion rates, quiz results).
4. Choose the export format (e.g., CSV, Excel, JSON).
5. Initiate the export process and verify that the data file is downloaded successfully.
6. Open the downloaded file and confirm that the data is accurate and complete.

Expected Result:

Data can be exported in the selected format, retaining data integrity and allowing for further analysis in external tools.

Severity: Critical

Priority: High

Type of Testing: Functional Testing

Test Case Approach: Positive

****Test Case 5:****

Test Case ID: TC_DA_05

Test Case Title: Verify that notifications are sent for significant data trends or anomalies.

Test Case Description: This test case verifies the accuracy and timeliness of notifications sent for notable data trends or deviations from expected patterns.

Test Suite: Data Analytics

Test Priority: Medium

Preconditions:

- Administrator account is logged in with notification settings enabled.
- A pre-defined threshold is set for triggering notifications (e.g., sudden drop in quiz scores).

Postconditions:

- Administrator receives a notification about the anomaly.

Test Data: N/A

Test Steps:

1. Manipulate learner data to trigger a significant data anomaly (e.g., artificially lower quiz scores for a specific course).
2. Monitor the administrator's notification system.
3. Verify that a notification is received within a reasonable timeframe after the anomaly occurs, informing the administrator of the specific issue.

Expected Result:

Notifications will be triggered for significant data trends or anomalies, allowing administrators to address issues promptly.

Severity: Major

Priority: Medium

Type of Testing: Functional testing, Integration testing

Test Case Approach: Negative

Data - 73

Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

User Roles and Permissions

Feature description -

The platform implements a user roles and permissions system, allowing administrators to define and manage different levels of access and functionality for various user groups. This feature ensures that users have appropriate permissions based on their roles, such as instructors, students, and administrators, enhancing security and user experience.

Userstory title -

As an administrator, I want to manage user roles and permissions so that I can control access to platform features.

Acceptance criteria -

['Administrators can create and assign user roles.', 'Permissions are customizable for each role.', 'Users are restricted to functionalities based on their roles.', 'Changes to roles and permissions are logged.', 'Users are notified of their assigned roles and permissions.']

Generated Test Cases:

Here are five detailed test cases for the "User Roles and Permissions" feature of the Online Learning Platform, following the provided template:

Test Case 1

* **Test Case ID:** TC_Admin_RoleCreation_001

* **Test Case Title:** Verify that administrators can create new user roles.

* **Test Case Description:** This test case verifies an administrator's ability to create new user roles with unique names within the platform's user management system.

* **Test Suite:** User Roles and Permissions

* **Test Priority:** High

* **Preconditions:**

- * An administrator account is logged in.

- * There are no existing user roles with the name to be tested.

* **Test Data:**

- * Example Role Name: "Instructor Assistant"

* **Test Steps:**

1. Navigate to the User Management section.
2. Click on the "Create New Role" button.
3. Enter the desired role name ("Instructor Assistant") in the designated field.
4. Click the "Create Role" button.
5. Verify that the newly created role ("Instructor Assistant") appears in the list of available roles.

* **Postconditions:**

- * The newly created role remains in the system.

* **Expected Result:** The "Instructor Assistant" role is successfully created and displayed in the user

management section.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, Regression Testing

* **Test Case Approach:** Positive

Test Case 2

* **Test Case ID:** TC_Admin_PermissionAssignment_002

* **Test Case Title:** Verify that administrators can assign specific permissions to user roles.

* **Test Case Description:** This test case confirms an administrator's ability to assign specific permissions, such as viewing course materials, creating discussions, or marking assignments, to a newly created user role.

* **Test Suite:** User Roles and Permissions

* **Test Priority:** High

* **Preconditions:**

- * An administrator account is logged in.

- * The "Instructor Assistant" role created in TC_Admin_RoleCreation_001 exists.

* **Test Data:**

- * Permission to view course materials

- * Permission to create discussions in forums

* **Test Steps:**

1. Navigate to the User Management section.

2. Select the "Instructor Assistant" role.

3. Click on the "Edit Permissions" button.

4. Check the boxes corresponding to "View Course Materials" and "Create Forum Discussions."

5. Click "Save Permissions."

* **Postconditions:**

- * The "Instructor Assistant" role's permissions are updated.

* **Expected Result:** The selected permissions ("View Course Materials" and "Create Forum Discussions") are assigned to the "Instructor Assistant" role.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, Regression Testing

* **Test Case Approach:** Positive

****Test Case 3****

* **Test Case ID:** TC_User_RoleRestriction_003

* **Test Case Title:** Verify that users are restricted to functionalities based on their roles.

* **Test Case Description:** This test case confirms that a user with the "Instructor Assistant" role can only perform actions allowed by their assigned permissions.

* **Test Suite:** User Roles and Permissions

* **Test Priority:** High

* **Preconditions:**

- * An "Instructor Assistant" account is created and logged in.

* **Test Data:**

- * A course with materials is available.

- * A discussion forum for the course exists.

* **Test Steps:**

1. Login using the "Instructor Assistant" account.
2. Try to access the course materials.
3. Attempt to create a new discussion topic in the forum.

4. Attempt to edit existing course materials.

5. Attempt to delete a user account.

* **Postconditions:**

* The actions attempting to access restricted functionalities are performed.

* **Expected Result:**

* The "Instructor Assistant" user can view course materials and create forum discussions but is prevented from editing course materials, deleting user accounts, or performing other unauthorized actions.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, Regression Testing

* **Test Case Approach:** Positive, Negative

Test Case 4

* **Test Case ID:** TC_Admin_RolePermissionLog_004

* **Test Case Title:** Verify that changes to roles and permissions are logged.

* **Test Case Description:** This test case ensures that the system records changes made to user roles and their associated permissions.

* **Test Suite:** User Roles and Permissions

* **Test Priority:** High

* **Preconditions:**

* An administrator account is logged in.

* The "Instructor Assistant" role exists.

* **Test Data:**

* New permission: "Mark Assignments"

* **Test Steps:**

1. Navigate to the User Management section.
2. Select the "Instructor Assistant" role.
3. Click on the "Edit Permissions" button.
4. Grant the "Mark Assignments" permission.
5. Click "Save Permissions."
6. Navigate to the system logs or audit trail.

* **Postconditions:**

* The permission update is recorded.

* **Expected Result:** The system log displays a record of the administrator granting the "Mark Assignments" permission to the "Instructor Assistant" role with timestamp and user details.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing, Regression Testing

* **Test Case Approach:** Positive

Test Case 5

* **Test Case ID:** TC_User_Notification_005

* **Test Case Title:** Verify that users are notified of their assigned roles and permissions.

* **Test Case Description:** This test case confirms that users receive appropriate notifications upon being assigned a new role and permissions.

* **Test Suite:** User Roles and Permissions

* **Test Priority:** Medium

* **Preconditions:**

- * A new user account is created.

- * An administrator account is logged in.

* **Test Data:**

- * New user account: "NewStudent"

- * User role: "Student"

- * Corresponding permissions

* **Test Steps:**

1. As an administrator, assign the "Student" role to the "NewStudent" account.

2. Navigate to the "NewStudent" user profile.

3. Verify that the "NewStudent" profile displays the "Student" role and the associated permissions.

4. Check the user's inbox for a notification email.

* **Postconditions:**

- * The user's profile information is updated.

- * The user receives a notification about their role.

* **Expected Result:** The "NewStudent" user profile accurately reflects the assigned "Student" role and permissions. The "NewStudent" receives an email notification stating their new role and available permissions.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing, Regression Testing

* **Test Case Approach:** Positive

Keep in mind that these are examples, and additional test cases may be needed to cover a wider range of scenarios and functionalities within the user roles and permissions system.

Data - 74

Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

User Feedback and Rating System

Feature description -

The platform includes a user feedback and rating system, allowing learners to provide feedback on courses, instructors, and learning materials. This feature enables continuous improvement by gathering user insights and ratings, helping instructors refine their content and approach.

Userstory title -

As a learner, I want to provide feedback and ratings so that I can share my experience and help improve the platform.

Acceptance criteria -

['Learners can rate courses and instructors on a scale.', 'Feedback forms are available for detailed comments.', 'Instructors can view and respond to feedback.', 'Aggregated ratings are displayed publicly.', 'Anonymous feedback options are available.']

Generated Test Cases:

User Feedback and Rating System Test Cases

Here are 5 detailed test cases for the "User Feedback and Rating System" feature of the Online Learning Platform:

****Test Case ID: TC_UFRS_101****

****Test Case Title:**** Verify that learners can rate courses and instructors on a scale.

****Test Case Description:**** This test case verifies the functionality of the rating system for both courses and instructors, ensuring users can provide ratings within the specified range.

****Test Suite:**** User Feedback and Rating System

****Test Priority:**** High

****Preconditions:****

- * A registered learner is logged into the platform.
- * A course with an instructor is available for completion.

****Test Data:****

- * Valid rating values between 1 and 5 for both courses and instructors (1 being the lowest and 5 being the highest).

****Test Steps:****

1. Navigate to the course details page.
2. Locate the rating section for the course and select a valid rating value (e.g., 4).
3. Click the "Submit Rating" button.
4. Confirm the rating is displayed next to the course name.
5. Navigate to the instructor's profile page.
6. Locate the rating section for the instructor and select a valid rating value (e.g., 3).

****Postconditions:****

* The learner's rating for the course and instructor is recorded.

****Expected Result:**** The learner's selected ratings for the course and instructor are successfully recorded and displayed.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:** TC_UFRS_102******

****Test Case Title:**** Verify that feedback forms are available for detailed comments.

****Test Case Description:**** This test case ensures learners can access feedback forms and provide detailed comments regarding courses, instructors, and materials.

****Test Suite:**** User Feedback and Rating System

****Test Priority:**** High

****Preconditions:****

- * A registered learner is logged into the platform.
- * A course with downloadable resources is available.

****Test Data:****

- * Sample feedback comments (positive, negative, constructive).

****Test Steps:****

1. Navigate to the course details page.
2. Locate the "Feedback" section.
3. Click the "Submit Feedback" button.
4. Enter a detailed comment about the course content.
5. Select specific aspects for feedback (e.g., content clarity, relevance, instructor quality).

****Postconditions:****

- * The learner's feedback is submitted and recorded.

****Expected Result:**** The feedback form is accessible, and the learner can submit detailed comments along with specific feedback selections.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:** TC_UFRS_103******

****Test Case Title:**** Verify that instructors can view and respond to feedback.

****Test Case Description:**** This test case ensures instructors can access learner feedback and leave appropriate responses.

****Test Suite:**** User Feedback and Rating System

****Test Priority:**** High

****Preconditions:****

- * An instructor is logged into the platform.
- * A learner has submitted feedback on one of the instructor's courses.

****Test Data:****

- * A previously submitted learner feedback.

****Test Steps:****

1. Navigate to the instructor dashboard.
2. Locate the ?Feedback? section.
3. Open the feedback thread from the learner.
4. Read the learner's feedback comments.
5. Compose a response to the feedback.
6. Click the "Submit Response" button.

****Postconditions:****

- * The instructor?s response is recorded and visible to the learner.

****Expected Result:**** The instructor can access and view learner feedback, compose appropriate responses, and submit them to the learner.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:** Positive**

****Test Case ID: TC_UFRS_104****

****Test Case Title:** Verify that aggregated ratings are displayed publicly.**

****Test Case Description:** This test case ensures aggregated course and instructor ratings are displayed publicly for all users.**

****Test Suite:** User Feedback and Rating System**

****Test Priority:** Medium**

****Preconditions:****

- * A registered user (learner, instructor, or guest) is logged into or browsing the platform.
- * At least two learners have rated a course and instructor.

****Test Data:****

- * Multiple valid ratings for a specific course.
- * Multiple valid ratings for a specific instructor.

****Test Steps:****

1. Navigate to the course details page for the chosen course.
2. Locate the aggregated rating for the course and verify the displayed value reflects the average of ratings

submitted.

3. Navigate to the instructor's profile page for the chosen instructor.

4. Locate the aggregated rating for the instructor and verify the displayed value reflects the average of ratings submitted.

****Postconditions:****

* No changes to the platform.

****Expected Result:**** The aggregated ratings for the course and instructor are correctly calculated and displayed publicly, showcasing the overall user sentiment.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:** TC_UFRS_105******

****Test Case Title:**** Verify anonymous feedback option availability.

****Test Case Description:**** This test case confirms users have the option to submit feedback anonymously.

****Test Suite:**** User Feedback and Rating System

****Test Priority:** Medium**

****Preconditions:****

* A registered or unregistered user is browsing the platform.

****Test Data:****

* Sample feedback comments.

****Test Steps:****

1. Navigate to the course details page.
2. Locate the "Feedback" section.
3. Click the "Submit Feedback" button.
4. Check if an option is available to submit feedback anonymously.

****Postconditions:****

* No changes to the platform.

****Expected Result:**** The feedback form provides an option for users to choose anonymous feedback submission.

****Severity:** Minor**

****Priority:** Medium**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Data - 75

Project name -

Online Learning Platform

Project description -

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

Feature name -

Social Media Integration

Feature description -

The platform supports social media integration, allowing learners and instructors to share their achievements, courses, and updates on social media platforms. This feature promotes engagement and community building, enhancing the visibility of the platform's offerings.

Userstory title -

As a learner, I want to share my achievements on social media so that I can showcase my progress and connect with peers.

Acceptance criteria -

['Learners can connect their social media accounts to the platform.', 'Achievements and course completions can be shared on social media.', 'Privacy settings control the visibility of shared content.', 'Instructors can promote courses and updates through social media.', 'Analytics track the reach and engagement of shared content.']

Generated Test Cases:

Test Cases for Social Media Integration Feature

Here are 5 detailed test cases for the "Social Media Integration" feature of the Online Learning Platform, based on the provided user story and acceptance criteria:

****Test Case 1:****

*** **Test Case ID:** TC_SMI_001**

*** **Test Case Title:** Verify that learners can connect their social media accounts.**

*** **Test Case Description:**** This test case aims to verify the functionality of connecting social media accounts (e.g., Facebook, Twitter) to the learning platform. It will involve creating a learner account, navigating to the social media integration section, and successfully linking a valid social media account.

*** **Test Suite:** User Account Management**

*** **Test Priority:** High**

*** **Preconditions:****

*** A new learner account is created.**

*** The user has access to a valid social media account (Facebook, Twitter, etc.).**

* **Test Data:** Valid social media account credentials (username and password).

* **Test Steps:**

1. Sign in to the learning platform as the newly created learner.
2. Navigate to the social media integration settings within the user profile.
3. Select the desired social media platform (e.g., Facebook).
4. Authorize the platform to access the social media account.
5. Verify that the social media account is successfully linked to the learner profile.

* **Postconditions:**

* The learner's social media account remains linked.

* **Expected Result:** The social media account is successfully connected to the learner's profile.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, Acceptance Testing

* **Test Case Approach:** Positive

****Test Case 2:****

* **Test Case ID:** TC_SMI_002

* **Test Case Title:** Verify that learners can share achievements on social media.

* **Test Case Description:** This test verifies the functionality of sharing specific learner achievements (e.g., course completion, quiz scores) on connected social media platforms.

* **Test Suite:** Social Media Sharing

* **Test Priority:** High

* **Preconditions:**

* A learner account is successfully connected to a social media account.

* The learner has completed a course or achieved a specific milestone.

* **Test Data:** A completed course or achievement.

****Test Steps:****

1. Sign in as the learner with the connected social media account.
2. Navigate to the learner's achievement (e.g., course completion page).
3. Initiate the share action on the chosen social media platform.
4. Verify that the achievement is shared on the linked social media account according to the predefined message.

****Postconditions:****

- * The achievement remains shared on the connected social media account.

****Expected Result:**** The achievement is successfully shared on the designated social media platform.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Acceptance Testing

****Test Case Approach:**** Positive

****Test Case 3:****

****Test Case ID:**** TC_SMI_003

****Test Case Title:**** Verify that learners can control the visibility of shared content.

****Test Case Description:**** This test case ensures privacy settings allow learners to choose the visibility of their shared content (e.g., public, only friends).

****Test Suite:**** Social Media Sharing

****Test Priority:**** High

****Preconditions:****

- * A learner account is successfully connected to a social media account.

* The learner has completed a course or achieved a specific milestone.

* **Test Data:** Multiple social media visibility settings (e.g., Public, Friends Only).

* **Test Steps:**

1. Sign in as the learner with the connected social media account.
2. Navigate to the learner's achievement (e.g., course completion page).
3. Before sharing, modify the social media sharing privacy settings.
4. Initiate the share action on the chosen social media platform.
5. Verify that the achievement is shared according to the selected privacy setting.

* **Postconditions:**

* The selected privacy setting persists for future shares.

* **Expected Result:** The achievement is shared only with the designated audience based on the chosen privacy setting.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, Acceptance Testing

* **Test Case Approach:** Positive

Test Case 4:

* **Test Case ID:** TC_SMI_004

* **Test Case Title:** Verify that instructors can promote courses and updates through social media.

* **Test Case Description:** This test case verifies the functionality for instructors to promote courses and platform updates through their linked social media accounts.

* **Test Suite:** Instructor Tools

* **Test Priority:** Medium

* **Preconditions:**

* An instructor account is successfully connected to a social media account.

* An instructor has access to manage a specific course.

* **Test Data:** Pre-written course promotional message, update announcement.

* **Test Steps:**

1. Sign in as an instructor with the connected social media account.

2. Access the course management dashboard for a designated course.

3. Utilize the social media promotion feature to schedule a course announcement post.

4. Verify that the scheduled social media post is created with the instructor's profile.

5. Utilize the social media promotion feature to share a platform update announcement.

6. Verify the update post is created with the instructor's profile and includes relevant details about the update.

* **Postconditions:**

* Scheduled posts are displayed in the instructor's dashboard.

* **Expected Result:** Social media posts are successfully created and linked to the instructor and relevant courses or platform updates.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing, Acceptance Testing

* **Test Case Approach:** Positive

Test Case 5:

* **Test Case ID:** TC_SMI_005

* **Test Case Title:** Verify that analytics track the reach and engagement of shared content.

* **Test Case Description:** This test case verifies the functionality of the analytics dashboard to track the performance of social media shared content.

* **Test Suite:** Social Media Analytics

* **Test Priority:** Medium

* **Preconditions:**

* A learner or instructor has successfully shared a post via the platform's social media integration.

* **Test Data:** Posted content (achievement, course update, etc.)

* **Test Steps:**

1. Sign in as a learner or instructor who has previously shared content.
2. Navigate to the social media analytics dashboard.
3. Filter the displayed data to focus on the previously shared content.
4. Verify that the analytics dashboard displays relevant metrics (e.g., shares, likes, comments, views) for the shared content.

* **Postconditions:**

* Analytics data remains available for future analysis.

* **Expected Result:** The analytics dashboard accurately tracks and displays relevant metrics for the shared content performance.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing, Acceptance Testing

* **Test Case Approach:** Positive

Data - 76

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Activity Tracking

Feature description -

The app records various activities such as running, walking, cycling, and swimming, capturing data on distance, duration, pace, and calories burned. This feature enables users to monitor their daily physical activity levels and progress towards fitness goals.

Userstory title -

As a user, I want to track my activities so that I can monitor my daily physical activity levels.

Acceptance criteria -

['The app records data on distance, duration, pace, and calories burned.', 'Users can view activity summaries.', 'Data is stored for historical analysis.', 'Activity tracking can be paused and resumed.', 'Users receive notifications for milestones.']

Generated Test Cases:

Fitness Tracker App - Activity Tracking Test Cases

Here are 5 test cases for the "Activity Tracking" feature of the Fitness Tracker App, ensuring all acceptance criteria are covered:

****Test Case 1:**** Verify that the app records distance accurately for walking.

*** **Test Case Description:**** This test case aims to verify that the app correctly captures the distance covered

during a simulated walking activity. It will involve walking a predetermined distance and comparing the recorded distance in the app with the actual distance covered.

* **Test Suite:** Activity Tracking

* **Test Priority:** High

* **Preconditions:**

- * User has a valid account in the app.

- * Location services are enabled on the device.

* **Test Data:** Predetermined walking distance (e.g., 1 km).

* **Test Steps:**

1. Start a new walking activity in the app.
2. Walk the predetermined distance.
3. Stop the walking activity in the app.
4. View the recorded distance in the activity summary.
5. Compare the recorded distance with the actual distance walked.

* **Postconditions:**

- * The walking activity is saved in the user's activity log.

* **Expected Result:** The recorded distance should match the actual distance walked within a reasonable margin of error.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, Integration Testing

* **Test Case Approach:** Positive

****Test Case 2:**** Verify that the app accurately records and displays activity duration for various activities.

****Test Case Description:**** This test case aims to test the accuracy of duration recording for different activities like running, cycling, swimming, and walking.

****Test Suite:**** Activity Tracking

****Test Priority:**** High

****Preconditions:****

- * User has a valid account in the app.

****Test Data:****

- * Designated durations for each activity (e.g., 30 minutes running, 1 hour cycling).

****Test Steps:****

1. Start a timed activity (e.g., running) in the app.
2. Exercise for the designated duration.
3. Stop the activity in the app.
4. View the recorded duration in the activity summary.
5. Repeat steps 1-4 for cycling, swimming, and walking activities.

****Postconditions:**** Recorded activity durations are stored in the user's data.

****Expected Result:**** The recorded duration for each activity should match the designated duration within a reasonable margin of error.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Unit Testing

****Test Case Approach:**** Positive

****Test Case 3:**** Verify that the app displays paused and resumed activity data correctly

*** **Test Case Description:**** This test case verifies that the app properly handles the pause and resume functionality during an activity. data reflecting the accurate duration of both paused and resumed segments will be recorded and displayed.

*** **Test Suite:**** Activity Tracking Features

*** **Test Priority:**** Medium

*** **Preconditions:****

- * User has a valid account in the app.

*** **Test Data:****

- * A designated activity duration (e.g., 45 minutes)

*** **Test Steps:****

1. Start a new activity (e.g., running).
2. Allow the activity to run for 15 minutes.
3. Pause the activity.
4. Pause the activity for 10 minutes.
5. Resume the activity.
6. Allow the activity to run for an additional 20 minutes.
7. Stop the activity.
8. View the activity summary.

*** **Postconditions:****

- * Data is recorded for the complete activity duration, including paused and resumed segments.

*** **Expected Result:**** The activity summary should show a 45-minute duration with 15 minutes recorded as a single segment, 10 minutes as a paused segment, and 20 minutes as a second segment.

*** **Severity:**** Major

*** **Priority:**** Medium

* **Type of Testing:** Functional Testing, Data Validation

* **Test Case Approach:** Positive

* **Test Case 4:** Verify that the app stores historical activity data for analysis.

* **Test Case Description:** This test case aims to ensure that the app correctly stores past activities and users can access this historical data for analysis.

* **Test Suite:** Activity Tracking

* **Test Priority:** High

* **Preconditions:**

* User has completed several activities in the app over a period of time.

* **Test Data:**

* A specific date range for analyzing historical data.

* **Test Steps:**

1. Navigate to the historical activity view in the app.
2. Select a specific date range for analysis.
3. Verify that recorded activities within the chosen date range are displayed.
4. View activity details (distance, duration, calories burned) for each historical activity.

* **Postconditions:** Historical activity data remains accessible within the app.

* **Expected Result:** The app should display a list of all activities completed within the selected date range. Each activity should include details like distance, duration, and calories burned.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, Regression Testing

* **Test Case Approach:** Positive

Test Case 5: Verify that users receive notifications for achieving milestones.

* **Test Case Description:** This test case verifies the functionality of milestone notifications, ensuring users are notified when they reach pre-defined goals or activity targets.

* **Test Suite:** Activity Tracking

* **Test Priority:** Medium

* **Preconditions:**

- * User has set custom activity milestones within the app.

* **Test Data:** Predetermined activity milestone for distance, duration, or calories burned.

* **Test Steps:**

1. Set a specific notification milestone for an activity (e.g., reaching 10 km walked).
2. Perform the necessary activity (walking) to achieve the milestone.
3. Verify a notification is received on the device upon reaching the milestone.

* **Postconditions:**

- * Notification settings are retained within the app.

* **Expected Result:** A notification should be received on the user's device when they reach the predefined activity milestone.

* **Severity:** Minor

* **Priority:** Medium

* **Type of Testing:** Functional Testing, Usability Testing

* **Test Case Approach:** Positive

These test cases serve as a starting point and can be further tailored and expanded based on the specific requirements and functionalities of the Fitness Tracker App.

Data - 77

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

GPS Tracking

Feature description -

Integrated GPS tracking allows users to accurately track outdoor activities and routes, providing detailed maps, elevation profiles, and location-based metrics. Users can visualize their workout routes, analyze performance data, and explore new routes for added variety and challenge.

Userstory title -

As a user, I want to use GPS tracking so that I can accurately track my outdoor activities and routes.

Acceptance criteria -

['GPS tracking accurately records route data.', 'Users can view detailed maps and elevation profiles.', 'Performance data includes location-based metrics.', 'Routes can be saved and revisited.', 'Notifications are provided for deviations from planned routes.']

Generated Test Cases:

Fitness Tracker App: GPS Tracking Test Cases

****Test Case ID:** FT-GPS-001**

****Test Case Title:** Verify that GPS tracking accurately records route data.**

****Test Case Description:** This test case verifies the accuracy of route data recorded by the GPS tracking feature during an outdoor activity.**

****Test Suite:** GPS Tracking**

****Test Priority:** High**

****Preconditions:****

* User has enabled GPS location services on their mobile device.

* The user has internet connectivity.

* The app is granted permission to access GPS location data.

****Test Data:****

* Known outdoor route with multiple landmarks and turns.

****Test Steps:****

1. Launch the Fitness Tracker app and initiate a new outdoor workout session.
2. Start recording GPS data.
3. Follow the known outdoor route, paying attention to landmarks and turns.
4. Complete the workout session and review the recorded route on the app's map interface.
5. Compare the recorded route with the user's actual route, verifying its accuracy and completeness.

6. Measure the total distance covered by the recorded route and compare it to the actual distance traveled.

****Postconditions:****

* GPS tracking session is stopped.

* Workout data is saved to the user's profile.

****Expected Result:**** The recorded route should accurately reflect the user's actual path, including all landmarks and turns, with minimal deviations. The total distance covered should be accurate within a reasonable margin of error.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Regression Testing

****Test Case ID:**** FT-GPS-002

****Test Case Title:**** Verify that users can view detailed maps and elevation profiles.

****Test Case Description:**** This test case verifies the ability to visualize detailed map information and elevation profiles for recorded outdoor activities.

****Test Suite:**** GPS Tracking

****Test Priority:**** Medium

****Preconditions:****

* User has completed a GPS tracking workout session.

* User has internet connectivity.

****Test Data:****

* A workout with varied terrain featuring inclines and declines.

****Test Steps:****

1. Navigate to the completed workout session in the user's activity history.
2. Select the option to view the recorded route map.

3. Verify that the map displays the user's actual route clearly and accurately.
4. Access the elevation profile view for the workout.
5. Observe that the elevation profile accurately depicts the changes in elevation along the recorded route.

****Postconditions:****

* Map and elevation profile views are dismissed.

****Expected Result:**** The map should display a clear and accurate representation of the recorded route, with identifiable landmarks and terrain features. The elevation profile should accurately reflect the ups and downs of the recorded route.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Usability Testing

****Please note:**** You can create more test cases based on the remaining acceptance criteria ? "Performance data includes location-based metrics," "Routes can be saved and revisited," and "Notifications are provided for deviations from planned routes."

Remember to adjust the test data and steps accordingly for each test case.

Data - 78

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Heart Rate Monitoring

Feature description -

The app monitors heart rate in real-time using built-in sensors or compatible wearable devices, providing insights into exercise intensity, recovery, and cardiovascular health. Heart rate data helps users optimize their workouts, maintain target heart rate zones, and track improvements in fitness over time.

Userstory title -

As a user, I want to monitor my heart rate so that I can optimize my workouts and track my cardiovascular health.

Acceptance criteria -

['Heart rate data is recorded in real-time.', 'Users can set and monitor target heart rate zones.', 'Historical heart rate data is stored and viewable.', 'Alerts are provided for abnormal heart rate readings.', 'Data is compatible with various wearable devices.']

Generated Test Cases:

Fitness Tracker App - Heart Rate Monitoring Test Cases

****Test Case ID:**** HRT-001

****Test Case Title:**** Verify that heart rate data is recorded in real-time.

****Test Case Description:**** This test case verifies that the app accurately captures and displays real-time heart rate data from both built-in sensors and compatible wearable devices.

****Test Suite:** Heart Rate Monitoring**

****Test Priority:** High**

****Preconditions:****

- * User has a compatible wearable device paired with the app. OR
- * The user's device has a functioning built-in heart rate sensor.
- * The app has been granted necessary permissions to access sensor data.

****Test Data:** N/A**

****Test Steps:****

1. Launch the Fitness Tracker App.
2. Navigate to the heart rate monitoring screen.
3. Initiate a moderate-intensity workout (e.g., brisk walking, jogging).
4. Observe the real-time heart rate displayed on the app screen during the workout.
5. Note the frequency and accuracy of the heart rate updates.
6. Compare the heart rate readings with a reference heart rate monitor if available.

****Postconditions:****

- * Workout is completed.
- * The app is closed.

****Expected Result:****

Real-time heart rate data is recorded accurately and displayed continuously during the workout, with updates occurring at regular intervals.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing, System Testing**

****Test Case ID:** HRT-002**

****Test Case Title:** Verify that users can set and monitor target heart rate zones.**

****Test Case Description:**** This test case verifies the functionality of setting and monitoring personalized target heart rate zones based on user age, fitness level, and goals.

****Test Suite:**** Heart Rate Monitoring

****Test Priority:**** High

****Preconditions:****

* User is logged into the app.

* User has provided accurate age, fitness level data in their profile.

****Test Data:****

* Pre-defined target heart rate zones based on user profile data.

****Test Steps:****

1. Access the settings menu within the app.
2. Navigate to the heart rate monitoring settings.
3. Input desired target heart rate zones (e.g., Fat Burning Zone, Cardio Zone).
4. Confirm the saved target heart rate zones.
5. Initiate a workout.
6. Observe the app's display of the current heart rate zone during the workout.

****Postconditions:****

* Target heart rate zones are saved and activated.

* Workout is completed.

****Expected Result:****

Target heart rate zones are accurately calculated and displayed during the workout, providing visual feedback on the user's intensity level.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing, User Interface Testing

****Test Case ID:** HRT-003**

****Test Case Title:** Verify that historical heart rate data is stored and viewable.**

****Test Case Description:** This test case verifies that the app stores and allows users to view historical heart rate data, including trends and patterns over time.**

****Test Suite:** Heart Rate Monitoring**

****Test Priority:** Medium**

****Preconditions:****

* User has performed at least one workout session.

* The app has access to the user's storage.

****Test Data:****

* Simulated historical heart rate data recorded from previous workouts.

****Test Steps:****

1. Access the heart rate monitoring history within the app.
2. Browse through the available historical data.
3. Filter and sort data by date, workout type, or heart rate range.
4. Observe the visualizations of historical heart rate trends (e.g., graphs, charts).
5. Analyze the accuracy and completeness of the stored data.

****Postconditions:****

* Historical heart rate data is readily accessible and viewable.

****Expected Result:****

Historical heart rate data is accurately stored, organized, and displayed in a user-friendly manner, allowing users to review their progress and identify patterns.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional Testing, Data Validation Testing**

****Test Case ID:** HRT-004**

****Test Case Title:**** Verify that alerts are provided for abnormal heart rate readings.

****Test Case Description:**** This test case tests the functionality of generating alerts for potentially abnormal heart rate readings, ensuring user safety and attention to health concerns.

****Test Suite:**** Heart Rate Monitoring

****Test Priority:**** High

****Preconditions:****

* App has permission to access user heart rate data.

* User profile includes heart rate alerts threshold settings.

****Test Data:****

* Simulated abnormal heart rate data exceeding user-defined thresholds.

****Test Steps:****

1. Log in to the app.
2. Establish a pre-defined abnormally high heart rate setting within the app's alert configurations.
3. Simulate an elevated heart rate exceeding the threshold through exercise or manually entering data.
4. Observe if a notification or alert is triggered by the app regarding the abnormal heart rate.
5. Analyze the content and clarity of the alert message.

****Postconditions:****

* Simulation of abnormal heart rate is complete.

* Alerts are acknowledged or disabled.

****Expected Result:****

The app accurately detects abnormal heart rate readings and provides clear, concise alerts to the user, prompting them to take appropriate action or seek medical attention if necessary.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Usability Testing

****Test Case ID:** HRT-005**

****Test Case Title:** Verify data compatibility with various wearable devices.**

****Test Case Description:** This test case validates the app's ability to seamlessly connect and retrieve heart rate data from different compatible wearable devices.**

****Test Suite:** Heart Rate Monitoring**

****Test Priority:** Medium**

****Preconditions:****

* User has access to at least two different types of compatible wearable devices (e.g., smartwatches, fitness bands).

****Test Data:****

* User profile information with specific wearable devices paired.

****Test Steps:****

1. Pair each wearable device with the app individually.
2. Initiate a workout session while wearing each device.
3. Monitor the heart rate readings displayed from each connected device within the app.
4. Compare the data consistency and accuracy between the wearable devices and the app.
5. Disconnect one device and observe if the app automatically switches to data from the remaining paired device.

****Postconditions:****

* Both devices are disconnected from the app.

****Expected Result:****

The app successfully establishes connections with different wearable devices, retrieves accurate heart rate data, and adapts seamlessly to device-specific data sources.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** System Testing, Integration Testing**

Data - 79

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Calorie Tracking

Feature description -

Users can log their daily food intake and track calorie consumption against calorie expenditure from physical activities, helping them maintain a healthy balance between energy intake and expenditure. This feature promotes mindful eating habits and supports weight management goals.

Userstory title -

As a user, I want to track my calorie intake so that I can maintain a healthy balance between energy intake and expenditure.

Acceptance criteria -

['Users can log daily food intake and calorie consumption.', 'The app calculates and displays total calories consumed and burned.', 'Users can set daily calorie goals and track progress.', 'Food items and calorie information are searchable in the database.', 'Users receive alerts for exceeding calorie goals.']

Generated Test Cases:

Here are 5 test cases for the "Calorie Tracking" feature of the Fitness Tracker App, following the provided template:

Test Case 1

****Test Case ID:**** TC_Calorie_001

****Test Case Title:**** Verify that users can log daily food intake and calorie consumption

****Test Case Description:**** This test case verifies the functionality of adding food items and their corresponding calorie information to the user's daily calorie log.

****Test Suite:**** Calorie Tracking

****Test Priority:**** High

****Preconditions:****

* User has created an account and logged in to the Fitness Tracker App.

* The user's daily calorie log is empty.

****Test Data:**** A list of common food items with known calorie values (e.g., apple, chicken breast, brown rice).

****Test Steps:****

1. Navigate to the "Food Log" section of the app.
2. Search for a food item ("apple") in the searchable database.
3. Select the appropriate food item from the search results.
4. Input the quantity consumed (e.g., 1 apple).
5. Tap the "Log" button to add the food item to the daily calorie log.
6. Repeat steps 2-5 for multiple food items.

****Postconditions:****

* The food items and their corresponding calorie values are displayed in the user's daily calorie log.

* The total calories consumed for the day are accurately calculated and displayed.

****Expected Result:**** Each entered food item with its quantity is displayed in the calorie log, and the total calories consumed accurately reflect the sum of entered food calories.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Regression Testing

****Test Case Approach:**** Positive

Test Case 2

****Test Case ID:**** TC_Calorie_002

****Test Case Title:**** Verify that the app calculates and displays total calories consumed and burned

****Test Case Description:**** This test case verifies that the app accurately calculates and displays the total calories consumed and burned by the user based on logged food intake and activity data.

****Test Suite:**** Calorie Tracking

****Test Priority:**** High

****Preconditions:****

* User has created an account and logged in to the Fitness Tracker App.

* User has logged at least one activity and some food items in the daily calorie log.

****Test Data:****

* Calorie values for logged food items.

* Calorie expenditure data from logged activity. (this could be simulated)

****Test Steps:****

1. Navigate to the "Summary" or "Dashboard" section of the app.
2. Verify that the app displays the total calories consumed for the day.
3. Ensure that the app also displays the total calories burned for the day.

****Postconditions:****

* The user's daily calorie log is updated with the entered activities and food items.

****Expected Result:**** The app accurately calculates and displays the total calories consumed and burned for the day, reflecting the user's logged data.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Regression Testing

****Test Case Approach:**** Positive

Test Case 3

****Test Case ID:**** TC_Calorie_003

****Test Case Title:**** Verify that users can set daily calorie goals and track progress

****Test Case Description:**** This test case confirms the user's ability to set daily calorie goals and monitors their progress towards achieving those goals.

****Test Suite:**** Calorie Tracking

****Test Priority:**** High

****Preconditions:****

* User has created an account and logged in to the Fitness Tracker App.

****Test Data:****

* A chosen calorie goal for the day.

****Test Steps:****

1. Access the "Settings" or "Profile" section of the app.
2. Locate the "Calorie Goal" section and enter a desired calorie goal for the day.
3. Save the calorie goal.
4. Interact with the app for a period of time, logging food intake and activities.

5. Return to the "Summary" or "Dashboard" section.

6. Verify that the app displays the user's remaining calorie allowance for the day based on their goal and logged intake.

****Postconditions:****

* The calorie goal is saved and reflected in the app's interface.

****Expected Result:**** The user can set a daily calorie goal, and the app accurately tracks their progress towards achieving that goal based on their logged intake and expenditure. Warnings or alerts should be displayed when the user approaches or exceeds their calorie goal.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 4

****Test Case ID:**** TC_Calorie_004

****Test Case Title:**** Verify food items and calorie information are searchable in the database

****Test Case Description:**** This test case ensures that users can efficiently find specific food items and their calorie information within the app's database using the search functionality.

****Test Suite:**** Calorie Tracking

****Test Priority:**** Medium

****Preconditions:****

* User has created an account and logged in to the Fitness Tracker App.

****Test Data:****

* A variety of food items with different names, ingredients, and calorie values.

****Test Steps:****

1. Navigate to the "Food Log" section of the app.
2. Enter a specific keyword related to a food item in the search bar (e.g., "apple," "chicken," "salad").
3. Observe the search results displayed.
4. Select a food item from the search results and verify its displayed calorie information.
5. Repeat steps 2-4 with different keywords to test the searchability of various food items.

****Postconditions:**** All searched food items are displayed in the results.

****Expected Result:**** The app accurately retrieves relevant food items from its database based on the entered keywords, displaying their corresponding calorie information.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Regression Testing

****Test Case Approach:**** Positive

Test Case 5

****Test Case ID:**** TC_Calorie_005

****Test Case Title:**** Verify users receive alerts for exceeding calorie goals

****Test Case Description:**** This test case ensures the app sends timely alerts to users when their daily calorie intake surpasses the predefined calorie goal.

****Test Suite:**** Calorie Tracking

****Test Priority:**** Medium

****Preconditions:****

* User has created an account and logged in to the Fitness Tracker App.

* User has set a daily calorie goal.

****Test Data:****

* Calorie values for food items that will exceed the set calorie goal.

****Test Steps:****

1. Log into the Fitness Tracker App.

2. Set a specific calorie goal for the day (e.g., 2000 calories).

3. Manually log food items and their calories, incrementally exceeding the set calorie goal.

4. Observe if an alert is triggered within the app when the daily calorie intake reaches or exceeds the goal.

****Postconditions:****

* User receives an alert indicating they have exceeded their calorie goal.

****Expected Result:****

The app displays a clear and concise alert, notification, or message informing the user that they have crossed their set calorie limit.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Regression Testing, User Acceptance Testing

****Test Case Approach:**** Positive

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Sleep Tracking

Feature description -

The app monitors sleep duration, quality, and patterns using accelerometer and heart rate sensors, providing insights into sleep stages, disturbances, and overall sleep quality. Sleep tracking helps users understand their sleep patterns, identify factors affecting sleep quality, and make lifestyle adjustments for better rest and recovery.

Userstory title -

As a user, I want to monitor my sleep so that I can understand my sleep patterns and improve my sleep quality.

Acceptance criteria -

['Sleep data is recorded including duration and quality.', 'Users can view detailed sleep stages and patterns.', 'The app provides insights into sleep disturbances.', 'Users receive recommendations for improving sleep quality.', 'Sleep data can be viewed in daily, weekly, and monthly summaries.']

Generated Test Cases:

Here are 5 detailed test cases for the "Sleep Tracking" feature of the Fitness Tracker App, following the provided template:

Test Case 1

****Test Case ID:** TC_ST_001**

****Test Case Title:** Verify that sleep data is recorded, including duration and quality.**

****Test Case Description:** This test case verifies if the app correctly records sleep duration and assigns a quality score based on collected sensor data.**

****Test Suite:** Sleep Tracking**

****Test Priority:** High**

****Preconditions:****

* User has set up sleep tracking in the app settings.

* They have worn a compatible wearable device or used the phone's sensors during sleep.

****Test Data:****

* No test data needed

****Test Steps:****

1. Start the app and ensure sleep tracking is active.
2. Begin sleep and allow the app to monitor for a defined duration (e.g., 8 hours).
3. Waken up after the designated sleep period and end the sleep tracking within the app.
4. Navigate to the sleep history or daily sleep summary.
5. Verify that the app accurately displays the total sleep duration.
6. Examine the reported sleep quality score and determine if it aligns with the user's perceived sleep quality (consider potential for subjective judgment).

****Postconditions:****

* Sleep tracking is manually deactivated.

* Sleep data is stored in the app's database.

****Expected Result:**** The app should accurately record the total sleep duration and provide a realistic sleep quality score based on sensor data.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing

Test Case 2

****Test Case ID:**** TC_ST_002

****Test Case Title:**** Verify that users can view detailed sleep stages and patterns.

****Test Case Description:**** This test case examines the app's ability to display detailed information about sleep stages (e.g., light, deep, REM) and identify recurring patterns.

****Test Suite:**** Sleep Tracking

****Test Priority:**** High

****Preconditions:****

* User has worn a compatible wearable device or used the phone's sensors during sleep.

****Test Data:****

* No test data needed

****Test Steps:****

1. Start the app and navigate to the sleep history or a specific sleep recording.

2. Review the detailed sleep stage breakdown, looking for segments indicating different sleep phases.
3. Observe the duration of each sleep stage and any noticeable variations in stage distribution.
4. Identify recurring patterns in sleep stages (e.g., consistently spending less time in deep sleep).
5. Look for visualizations like graphs or charts representing sleep stage progression.

****Postconditions:****

* Sleep data is accessed and analyzed.

****Expected Result:**** The app should display clear and comprehensive information about sleep stages, including duration, progression, and any discernible patterns.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing

Test Case 3

****Test Case ID:**** TC_ST_003

****Test Case Title:**** Verify that the app provides insights into sleep disturbances.

****Test Case Description:**** This test case assesses the app's capability to identify and inform users about potential sleep disturbances based on tracked data.

****Test Suite:**** Sleep Tracking

****Test Priority:**** High

****Preconditions:****

* User has experienced sleep disruptions during a recorded sleep session (e.g., waking up frequently, restless periods).

****Test Data:****

* No test data needed

****Test Steps:****

1. Begin a sleep tracking session, intentionally experiencing sleep disruptions for a measurable period.
2. End the sleep tracking session as usual.
3. Navigate to the sleep history or daily sleep summary.
4. Examine the app's analysis of sleep disturbances (e.g., wake-up count, fragmented sleep).
5. Confirm that the app mentions detected sleep disruptions and provides relevant suggestions or recommendations.

****Postconditions:****

* Sleep data is accessed and analyzed for disturbances.

****Expected Result:**** The app should accurately identify sleep disturbances based on sensor readings and provide clear insights into their occurrence and potential causes.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing

Test Case 4

****Test Case ID:**** TC_ST_004

****Test Case Title:**** Verify that users receive recommendations for improving sleep quality.

****Test Case Description:**** This test case evaluates the app's ability to generate personalized suggestions for enhancing sleep quality based on the user's sleep data.

****Test Suite:** Sleep Tracking**

****Test Priority:** Medium**

****Preconditions:****

* User has a history of sleep data in the app.

****Test Data:****

* Sleep data that exhibits areas needing improvement (e.g., insufficient deep sleep).

****Test Steps:****

1. Navigate to the sleep analysis section of the app.
2. Review the personalized recommendations for sleep improvement.
3. Examine the specific suggestions provided, ensuring they align with known sleep hygiene practices (e.g., consistent sleep schedule, relaxing bedtime routine).

****Postconditions:****

*

Recommendations for sleep improvement are reviewed.

****Expected Result:**** The app should offer targeted and actionable recommendations based on the user's individual sleep patterns and areas needing attention.

****Severity:** Minor**

****Priority:** Medium**

****Type of Testing:**** Functional Testing, System Testing

Test Case 5

****Test Case ID:**** TC_ST_005

****Test Case Title:**** Verify that sleep data can be viewed in daily, weekly, and monthly summaries.

****Test Case Description:****

This test case ensures the app allows users to view their sleep history across different timeframes.

****Test Suite:**** Sleep Tracking

****Test Priority:**** Medium

****Preconditions:****

* User has recorded sleep data for at least 3 days.

****Test Data:****

No test data needed

****Test Steps:****

1. Open the app and navigate to the sleep history section.
2. Select the "Daily" view and verify the app displays sleep data for the most recent day.
3. Change the view to "Weekly" and confirm the app shows a consolidated summary of sleep data for the current week.
4. Switch the view to "Monthly" and ensure the app presents a comprehensive overview of sleep data for the current month.
5. Verify that each summary accurately reflects the recorded sleep data and displays relevant statistics (e.g., total sleep hours, average sleep quality).

****Postconditions:****

* Sleep data is viewed across different timeframes.

****Expected Result:**** The app should smoothly transition between daily, weekly, and monthly sleep summaries, presenting accurate and consolidated sleep data for each respective period.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing

These test cases offer a comprehensive starting point for evaluating the "Sleep Tracking" feature of the Fitness Tracker App.

Data - 81

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Workout Logging

Feature description -

Users can log individual workouts, specifying exercise type, duration, intensity, and any additional notes or comments. This feature allows users to maintain a detailed workout log, track progress over time, and identify trends in performance and adherence to training programs.

Userstory title -

As a user, I want to log my workouts so that I can track my progress and improve my performance.

Acceptance criteria -

['Users can log various workout types with details.', 'Workout logs include duration, intensity, and notes.', 'Users can edit and delete workout entries.', 'Data is stored and viewable for tracking progress.', 'Users can filter logs by date and workout type.']

Generated Test Cases:

Test Cases for Fitness Tracker App - Workout Logging Feature

Test Case ID: TC_WL_01

****Test Case Title:**** Verify that users can log various workout types with details.

****Test Case Description:**** This test case evaluates the functionality of logging different workout types with specified details. It ensures that the app correctly captures and stores various exercise types, durations, intensities, and user notes.

****Test Suite:**** Workout Logging

****Test Priority:**** High

****Preconditions:****

- * User is logged into the Fitness Tracker app.

****Test Data:****

- * List of various workout types (e.g., running, cycling, swimming, strength training, yoga)

- * Different duration values (e.g., 30 minutes, 1 hour, 1.5 hours)

- * Intensity levels (e.g., Light, Moderate, Hard)

- * Example user notes (e.g., "Felt great!", "Tough workout")

****Test Steps:****

1. Navigate to the "Workout" section of the Fitness Tracker app.

2. Select a workout type from the provided list.

3. Enter a duration for the workout.

4. Choose an intensity level for the workout.

5. Add optional notes or comments about the workout.

6. Tap the "Save" or "Log Workout" button.

****Postconditions:****

- * The logged workout appears in the workout history.

- * The logged workout displays the selected type, duration, intensity, and user notes.

****Expected Result:****

The app successfully logs the workout with all specified details.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_WL_02**

****Test Case Title:** Verify that users can edit and delete workout entries.**

****Test Case Description:**** This test case verifies the functionality of editing and deleting existing workout entries. It ensures that users can modify workout details and remove inaccurate or unwanted entries from their workout history.

****Test Suite:** Workout Logging**

****Test Priority:** Medium**

****Preconditions:****

* User is logged into the Fitness Tracker app.

* At least one workout entry exists in the user's workout history.

****Test Data:****

* Existing workout entry with details (type, duration, intensity, notes)

****Test Steps:****

1. Navigate to the "Workout" section of the Fitness Tracker app and view workout history.
2. Select an existing workout entry.
3. Modify the workout details (e.g., change duration, intensity or add new notes).

4. Tap the "Save" or "Update" button to confirm the changes.
5. Select the previously modified workout entry again.
6. Tap the "Delete" or "Remove" button to delete the entry.
7. Attempt to view the workout history again.

****Postconditions:****

- * The modified workout entry displays the updated details.
- * The deleted workout entry is no longer visible in the workout history.

****Expected Result:****

The app successfully edits and deletes the selected workout entry.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive and Negative

You can continue following this template to write at least 5 additional test cases, ensuring comprehensive coverage of all acceptance criteria mentioned in the user story.

Remember to consider edge cases and potential issues like:

* **Invalid input:** Test with unusual durations (e.g., negative values), unexpected intensity levels, or overly long notes.

* **Data storage and retrieval:** Verify that workout data is stored correctly and can be retrieved accurately by the app.

* **Filtering functionality:** Test different combinations of date and workout type filters to ensure accurate data display.

By following these guidelines and using the Test Case Creation Template, you can create detailed and effective test cases to ensure the quality of the Fitness Tracker App's workout logging functionality.

Data - 82

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Goal Setting

Feature description -

Users can set personalized fitness goals based on activity level, weight loss targets, performance milestones, or health objectives. The app provides progress tracking and motivational feedback to help users stay focused

and committed to achieving their goals.

Userstory title -

As a user, I want to set fitness goals so that I can stay motivated and track my progress.

Acceptance criteria -

['Users can set goals for various fitness metrics.', 'Progress tracking is available for each goal.', 'Users receive motivational feedback and reminders.', 'Goals can be adjusted or updated as needed.', 'The app provides a summary of goal attainment.']

Generated Test Cases:

Test Cases for Fitness Tracker App - Goal Setting Feature

****Test Case ID:** TC_GOAL_001**

****Test Case Title:** Verify that users can set goals for different fitness metrics.**

****Test Case Description:** This test case verifies the user's ability to set goals for various fitness metrics offered by the app, including steps, calories burned, distance traveled, and weight.**

****Test Suite:** Goal Setting**

****Test Priority:** High**

****Preconditions:****

* User is logged into the app.

* User has access to the goal setting feature.

****Test Data:****

* Valid step count goal (e.g., 10000)

* Valid calorie burning goal (e.g., 500)

* Valid distance goal (e.g., 5km)

* Valid weight loss goal (e.g., 1kg)

****Test Steps:****

1. Navigate to the goal setting section of the app.
2. Select "Steps" as the metric for setting a goal.
3. Enter a valid step count goal (e.g., 10000).
4. Save the goal.
5. Repeat steps 2-4 for "Calories Burned," "Distance Traveled," and "Weight."

****Postconditions:****

- * Created goals are displayed in the user's goal list.

****Expected Result:****

The app successfully saves each goal for the selected metrics with the entered values.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_GOAL_002

****Test Case Title:**** Verify that progress tracking is available for each goal.

****Test Case Description:**** This test case ensures that the app accurately tracks progress towards each set goal and displays it to the user.

****Test Suite:**** Goal Setting

****Test Priority:**** High

****Preconditions:****

- * User is logged into the app.
- * User has set a goal for at least one metric (Steps, Calories Burned, Distance, or Weight).

****Test Data:****

- * User activity data for the set goal (e.g., steps taken, calories burned).

****Test Steps:****

1. Navigate to the goal tracking section of the app.
2. Select a previously set goal (e.g., Steps).
3. Observe the progress tracking display, which should show the user's current progress towards the goal.
4. Repeat steps 2-3 for each set goal using different metrics.

****Postconditions:****

- * Progress tracking display is updated with the latest user data.

****Expected Result:****

The app accurately displays the user's progress towards each set goal, based on their activity data.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_GOAL_003**

****Test Case Title:** Verify that users receive motivational feedback and reminders.**

****Test Case Description:**** This test case ensures the app provides motivational feedback and timely reminders to users based on their progress towards their goals.

****Test Suite:**** Goal Setting

****Test Priority:**** Medium

****Preconditions:****

* User is logged into the app.

* User has set at least one goal.

****Test Data:****

* User must have entered a date or time for reminders (if applicable).

****Test Steps:****

1. Set a goal with a specific target date or within a timeframe.
2. Interact with the app regularly but not achieve the goal before the target date or timeframe.
3. Observe if the app provides motivational feedback based on user progress towards the goal.
4. At or near the target date or timeframe, check if the app delivers reminders regarding the goal.

****Postconditions:****

* User receives motivational feedback and timely reminders as per their goal settings.

****Expected Result:****

The app provides personalized motivational feedback and reminders to users during their journey towards achieving their selected goals.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Negative

****Test Case ID:**** TC_GOAL_004

****Test Case Title:**** Verify that goals can be adjusted or updated as needed.

****Test Case Description:**** This test case ensures users can modify their existing goals, including changing values or target dates without losing previously tracked progress.

****Test Suite:**** Goal Setting

****Test Priority:**** High

****Preconditions:****

- * User is logged into the app.
- * User has set at least one goal.
- * The app allows for goal editing.

****Test Data:****

- * Information about a previously set goal.

****Test Steps:****

1. Navigate to the goal editing section for a previously set goal.
2. Modify the goal value (e.g., increase step count target).
3. Update the target date for the goal.
4. Save the changes to the goal.

****Postconditions:****

- * Updated goal information reflects in the app.

****Expected Result:****

The app allows users to seamlessly adjust their goals, including changing values and target dates, while retaining prior progress information.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_GOAL_005**

****Test Case Title:** Verify that the app provides a summary of goal attainment.**

****Test Case Description:** This test case checks if the app accurately displays a summary of user goal attainment, including successes and missed targets.**

****Test Suite:** Goal Setting**

****Test Priority:** Medium**

****Preconditions:****

- * User is logged into the app.

- * User has set at least one goal and has a completion date or timeframe.

****Test Data:****

- * User activity data for the goals.

****Test Steps:****

1. Navigate to the goal summary section of the app.

2. Review the summary provided for each goal, focusing on:

- * Attainment status: successfully achieved, partially achieved, or not achieved.

- * Quantifiable progress: percentage reached, units achieved, or other relevant metrics.

3. Observe if the summary accurately reflects the user's progress towards each goal.

****Postconditions:****

* The goal summary tab is accessible and reflects user goals.

****Expected Result:****

The app provides a comprehensive summary of goal attainment for each set goal, clearly indicating status and progress.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Data - 83

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Workout Plans

Feature description -

The app offers pre-designed workout plans and training programs tailored to different fitness levels, goals, and preferences. Users can follow structured workout routines, receive guidance on exercise selection and progression, and track their adherence to the plan.

Userstory title -

As a user, I want to follow structured workout plans so that I can achieve my fitness goals with guided training.

Acceptance criteria -

['Users can select workout plans based on fitness levels.', 'Plans include detailed exercise routines and schedules.', 'Users can track adherence and progress within the plan.', 'The app provides notifications and reminders for workouts.', 'Users can adjust plans based on progress and preferences.']

Generated Test Cases:

Fitness Tracker App: Workout Plans Test Cases

Here are 5 detailed test cases for the "Workout Plans" feature of the Fitness Tracker App based on the provided user story and acceptance criteria.

Test Case 1

* **Test Case ID:** TC_WP_01

* **Test Case Title:** Verify that users can select workout plans based on fitness levels

* **Test Case Description:** This test case verifies the functionality of selecting workout plans based on predefined fitness levels (e.g., Beginner, Intermediate, Advanced).

* **Test Suite:** Workout Plans

* **Test Priority:** High

****Preconditions:****

- * User is logged in to the Fitness Tracker App
- * The "Workout Plans" section is accessible within the app

****Test Data:****

- * User accounts with different fitness levels (Beginner, Intermediate, Advanced)

****Test Steps:****

1. Navigate to the "Workout Plans" section.
2. Filter workout plan options by selecting a specific fitness level (e.g., "Beginner").
3. Verify that only workout plans designed for beginners are displayed.
4. Select another fitness level (e.g., "Intermediate").
5. Verify that the displayed workout plan options are filtered according to the selected fitness level.

****Postconditions:****

- * The user interface returns to its initial state

****Expected Result:**** The app successfully filters workout plan options based on the selected fitness level.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case 2****

****Test Case ID:**** TC_WP_02

****Test Case Title:**** Verify that workout plans include detailed exercise routines and schedules

****Test Case Description:**** This test case verifies the completeness and clarity of exercise routines and schedules within selected workout plans.

****Test Suite:**** Workout Plans

****Test Priority:**** High

****Preconditions:****

- * User is logged in to the Fitness Tracker App
- * A specific workout plan is selected.

****Test Data:****

- * A workout plan with complex exercises and schedules (e.g., a 3-week strength training plan).

****Test Steps:****

1. Select a specific workout plan (e.g., a strength training plan).
2. Review the plan details, including the exercises listed for each workout day.
3. Examine the schedule for each week, noting the exercise frequency and intensity.
4. Verify that the descriptions for each exercise include proper form and technique instructions.

****Postconditions:****

- * User returns to the "My Workout Plans" section.

****Expected Result:**** The selected workout plan provides comprehensive details on exercises, routines, and schedules with clear instructions.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case 3****

****Test Case ID:**** TC_WP_03

****Test Case Title:**** Verify that users can track adherence and progress within the plan

****Test Case Description:**** This test case verifies the ability to track workout completion and monitor progress within a selected workout plan.

****Test Suite:**** Workout Plans

****Test Priority:**** High

****Preconditions:****

- * User is logged in to the Fitness Tracker App
- * A specific workout plan is selected and started.

****Test Data:****

- * Simulated workout data for several days, including completed and skipped exercises.

****Test Steps:****

1. Initiate a new workout plan.
2. Complete some exercises within the plan over several days, simulating real-world usage.
3. Within the plan's tracking section, verify that completed exercises are marked accordingly.
4. Manually mark some exercises as skipped.
5. Check if the plan's progress tracker reflects the completed and skipped exercises accurately.
6. (Optional) Verify the display of performance trends (e.g., calories burned, distance covered) over time within the plan.

****Postconditions:****

- * User returns to the workout plan view.

****Expected Result:**** The app correctly tracks workout adherence and displays progress within the selected plan.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional, Performance Testing

****Test Case Approach:**** Positive

****Test Case 4****

****Test Case ID:**** TC_WP_04

****Test Case Title:**** Verify that the app provides notifications and reminders for workouts

* **Test Case Description:** This test case verifies if the app functions correctly to send reminders and notifications for scheduled workouts.

* **Test Suite:** Workout Plans

* **Test Priority:** Medium

* **Preconditions:**

- * User is logged in to the Fitness Tracker App

- * A specific workout plan with scheduled workouts is selected.

- * Notification settings are enabled for workout reminders.

* **Test Data:**

- * A workout plan with scheduled workouts across multiple days.

* **Test Steps:**

1. Select a workout plan with scheduled workouts.

2. Confirm that notifications are enabled for workout reminders.

3. Simulate passing a few hours/days until a scheduled workout time approaches.

4. Verify that a notification is received informing about the upcoming workout within the specified timeframe.

5. (Optional) Test different reminder intervals, e.g., 1 hour, 30 minutes, etc.

* **Postconditions:**

- * User dismisses the notification.

* **Expected Result:** The app successfully sends timely notifications for scheduled workouts.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional, Non-Functional Testing

* **Test Case Approach:** Positive, Negative

****Test Case 5****

* **Test Case ID:** TC_WP_05

* **Test Case Title:** Verify that users can adjust workout plans based on progress and preferences

* **Test Case Description:** This test case verifies features allowing users to modify workout plans based on their progress and evolving fitness goals.

* **Test Suite:** Workout Plans

* **Test Priority:** Medium

* **Preconditions:**

- * User is logged in to the Fitness Tracker App

- * A workout plan is initialized and partially completed.

* **Test Data:**

- * A workout plan with adjustable plan length or intensity.

* **Test Steps:**

1. Start a workout plan.
2. Track progress within the plan for several days.
3. If applicable, manually adjust the plan length.
4. If applicable, access options to modify workout intensity (e.g., increase weight, reduce repetitions).
5. Verify that the plan updates accordingly, reflecting the user's desired changes.

* **Postconditions:**

- * User returns to the "My Workout Plans" section.

* **Expected Result:** The app allows users to seamlessly adjust workout plan details based on their progress and preferences.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Data - 84

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Community Support

Feature description -

Users can connect with a community of like-minded individuals, share progress updates, participate in challenges, and offer support and encouragement to fellow users. Community support fosters accountability, motivation, and a sense of camaraderie among users striving towards similar fitness goals.

Userstory title -

As a user, I want to connect with a community so that I can share my progress and stay motivated.

Acceptance criteria -

['Users can join and participate in community groups.', 'Users can share progress updates and achievements.', 'The app facilitates participation in community challenges.', 'Users can offer and receive support and encouragement.', 'Community activity and engagement are tracked.']

Generated Test Cases:

Fitness Tracker App - Community Support Test Cases

****Test Case ID:** FC-001**

****Test Case Title:** Verify that users can join community groups.**

****Test Case Description:**** This test case aims to verify that users can successfully join pre-existing community groups within the Fitness Tracker app. It will involve creating a user account, navigating to the community section, selecting a group, and confirming successful membership.

****Test Suite:** Community Features**

****Test Priority:** High**

****Preconditions:****

- * A test user account is created.
- * At least one community group exists within the app.

****Test Data:**** Test user account details, community group names.

****Test Steps:****

1. Log in to the Fitness Tracker app using the test user account.
2. Navigate to the Community section of the app.
3. Select a community group from the list of available groups.
4. Click on the 'Join Group' button.
5. Verify that a confirmation message is displayed indicating successful group membership.

****Expected Result:****

The user is successfully added to the selected community group and can access group-specific content and interactions.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** FC-002**

****Test Case Title:** Verify that users can share progress updates within a community group.**

****Test Case Description:****

This test case aims to verify that users can effectively share progress updates within a community group. It will involve creating a test user, joining a group, and posting a sample progress update within that group.

****Test Suite:** Community Features**

****Test Priority:** High**

****Preconditions:****

- * A test user account is created.
- * A community group exists within the app and the test user has joined.

****Test Data:** Test user account details, community group name, sample progress update text.**

****Test Steps:****

1. Log in to the Fitness Tracker app using the test user account.
2. Navigate to the community group the user has joined.
3. Locate the 'Share Update' or equivalent functionality within the group interface.
4. Type a sample progress update (e.g., "Completed my 5K run today!") and attach a relevant image if available.
5. Click on the 'Post' or 'Share' button to publish the update.

****Expected Result:****

The progress update is successfully posted within the community group, visible to other members.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** FC-003**

****Test Case Title:** Verify that users can participate in community challenges.**

****Test Case Description:****

This test case aims to verify that users can effectively join and participate in community challenges within the Fitness Tracker app.

****Test Suite:** Community Features**

****Test Priority:** High**

****Preconditions:****

* A test user account is created.

* At least one community challenge is available within the app.

* The challenge requirements are clearly defined within the app.

****Test Data:** Test user account details, community challenge details.**

****Test Steps:****

1. Log in to the Fitness Tracker app using the test user account.

2. Navigate to the Community section of the app.
3. Locate the available community challenges.
4. Select a challenge and click on the 'Join Challenge' button.
5. Verify that the user is successfully registered for the challenge and can view the challenge details, progress tracking, and leaderboard (if applicable).

****Expected Result:****

The user is successfully registered for the selected challenge and can begin participating in the activities or goals outlined by the challenge.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Remember to adapt this template with specific details and test scenarios relevant to the development of your Fitness Tracker app.

Data - 85

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Integration with Wearable Devices

Feature description -

The app seamlessly integrates with popular wearable devices such as fitness trackers, smartwatches, and heart rate monitors, allowing users to sync activity data and access advanced features. Integration with wearables enhances data accuracy, usability, and convenience for users tracking their fitness activities on the go.

Userstory title -

As a user, I want to integrate my wearable devices so that I can sync my fitness data seamlessly.

Acceptance criteria -

['The app supports integration with multiple wearable devices.', 'Users can sync activity data from their wearables.', 'The app provides real-time data updates from wearables.', 'Wearable data includes steps, heart rate, and calories burned.', 'Users can troubleshoot connectivity issues with wearables.']

Generated Test Cases:

Fitness Tracker App Test Cases: Wearable Device Integration

****User Story:**** As a user, I want to integrate my wearable devices so that I can sync my fitness data seamlessly.

Test Case 1

****Test Case ID:**** TC-FT-WDI-001

****Test Case Title:**** Verify that the app supports integration with multiple popular wearable devices.

****Test Case Description:**** This test case aims to verify that the app supports integration with at least three major wearable device platforms, namely Apple Watch, Fitbit, and Garmin.

****Test Suite:**** User Interface/Wearable Integration

****Test Priority:**** High

****Preconditions:****

- * App installed on a compatible device (iOS or Android).
- * Network connectivity available.
- * Accounts created for the wearable devices and the Fitness Tracker app.

****Test Data:****

- * User accounts for Apple Watch, Fitbit, and Garmin.
- * Sample fitness data for each wearable device.

****Test Steps:****

1. Open the Fitness Tracker app and navigate to the wearable device settings.
2. Attempt to connect with a sample Apple Watch account.
3. Verify successful connection and display of device information (model, serial number, etc.).
4. Repeat steps 2-3 for a sample Fitbit and Garmin account.
5. Ensure each connection is successful and the corresponding device information is displayed.

****Postconditions:****

- * Check for any connection errors or issues during the process.

****Expected Result:**** The app should successfully connect to and display information for both Apple Watch, Fitbit, and Garmin wearable devices.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Test Case 2:

****Test Case ID:** TC-FT-WDI-002**

****Test Case Title:** Verify that users can sync activity data from their wearables.**

****Test Case Description:** This test case aims to verify the successful synchronization of activity data from a connected wearable device to the Fitness Tracker app.**

****Test Suite:** Data Synchronization**

****Test Priority:** High**

****Preconditions:****

- * App installed on a compatible device (iOS or Android).
- * Network connectivity available.
- * A wearable device (e.g., Apple Watch) connected and synced to the app.
- * Test user logged in to the Fitness Tracker app with access to the synced device.

****Test Data:****

- * Simulated or actual fitness data generated on the connected wearable device (e.g., steps taken, heart rate, calories burned).

****Test Steps:****

1. Wear the connected wearable device and perform a series of activities (walking, running, etc.)
2. Wait for a sufficient amount of data to be generated on the wearable device.
3. Open the Fitness Tracker app and navigate to the user data section.
4. Initiate the sync process for the connected wearable device.
5. Verify that the activity data from the wearable device is successfully transferred to the app and reflected in the user data section.

****Postconditions:****

- * Confirm that the synced data is accurate and consistent with the wearable device data.
- * Check for any sync errors or delays.

****Expected Result:**** The app should successfully sync the activity data from the connected wearable device without any errors or data loss.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Continue to generate similarly detailed test cases covering the remaining acceptance criteria. Remember to include:

- * ****Test Case ID:**** A unique identifier for each test case.
- * ****Test Case Title:**** Begin with "Verify that..." and clearly state the functionality being tested.
- * ****Test Case Description:**** A brief yet informative description (70-100 words).
- * ****Test Suite:**** The test suite or module this test case belongs to.
- * ****Test Priority:**** (High, Medium, Low)
- * ****Preconditions:**** Prerequisites needed before executing the test case.
- * ****Test Data:**** Data required for the test case, or "No test data needed."
- * ****Test Steps:**** A clear step-by-step procedure for executing the test.
- * ****Postconditions:**** Any actions to take after the test execution.
- * ****Expected Result:**** The anticipated outcome of the test case.
- * ****Severity:**** (Blocker, Critical, Major, Minor, Trivial)
- * ****Priority:**** (High, Medium, Low)
- * ****Type of Testing:**** The type of testing being performed.
- * ****Test Case Approach:**** (Positive, Negative, Destructive)

Data - 86

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with

wearable devices or fitness equipment.

Feature name -

Water Intake Tracking

Feature description -

Users can monitor their daily water intake and hydration levels, setting hydration goals and receiving reminders to drink water throughout the day. Proper hydration is essential for overall health and performance, and this feature helps users stay hydrated and maintain optimal fluid balance.

Userstory title -

As a user, I want to track my water intake so that I can stay hydrated and maintain optimal health.

Acceptance criteria -

['Users can log their daily water intake.', 'The app calculates total water consumption for the day.', 'Users can set daily hydration goals.', 'Reminders are provided to encourage regular water intake.', 'Users can view hydration progress and trends.']

Generated Test Cases:

Test Cases for Water Intake Tracking Feature

****Test Case ID:**** FIT-WTR-001

****Test Case Title:**** Verify that users can log their daily water intake.

****Test Case Description:**** This test case verifies that users can successfully input the amount of water they have consumed throughout the day. It will cover various input values, including positive integers, decimals, and edge cases like zero input.

****Test Suite:**** Water Intake Tracking

****Test Priority:**** High

****Preconditions:****

* User is logged into the Fitness Tracker app.

* User has access to the Water Intake Tracking feature.

****Test Data:****

* 250 ml

* 500 ml

* 1 liter

* 0 ml

* 3.5 liters (exceeding a reasonable threshold)

****Test Steps:****

1. Navigate to the Water Intake Tracking section within the app.

2. Select the desired unit for water intake (e.g., ml, oz, liters).

3. Enter various water intake amounts using the provided input field.

4. Click or tap the "Log" or "Save" button to record the intake.

5. Verify that the entered amount is displayed in the list of logged water intakes.

****Postconditions:****

* Logged water intake should be visible in the user's profile or tracking history.

****Expected Result:**** Each entered water intake value is correctly logged without errors.

****Severity:**** Minor

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case ID:**** FIT-WTR-002

****Test Case Title:**** Verify that the app calculates total water consumption for the day.

****Test Case Description:**** This test case verifies the app's ability to accurately calculate the cumulative total of water consumed by the user throughout the day. It will test the calculation with multiple water intake entries of varying amounts.

****Test Suite:**** Water Intake Tracking

****Test Priority:**** High

****Preconditions:****

* User is logged into the Fitness Tracker app.

* A minimum of 2 water intakes have been logged for the current day.

****Test Data:****

* Logs of multiple water intake amounts (e.g., 250 ml, 500 ml, 250 ml).

****Test Steps:****

1. Access the Water Intake Tracking section within the app.
2. Verify that a calculated total water consumption for the day is displayed prominently.
3. Compare the calculated total with the sum of all logged water intake amounts for the current day.

****Postconditions:****

*

****Expected Result:**** The calculated total water consumption accurately reflects the sum of all logged water intakes for the day.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case ID:** FIT-WTR-003**

****Test Case Title:** Verify that users can set daily hydration goals.**

****Test Case Description:** This test case verifies the functionality of setting custom hydration goals for the day. It aims to cover various input scenarios, including setting realistic goals and ensuring the app handles invalid inputs gracefully.**

****Test Suite:** Water Intake Tracking**

****Test Priority:** Medium**

****Preconditions:****

* User is logged into the Fitness Tracker app.

* User has access to the Water Intake Tracking section.

****Test Data:****

* 1500 ml (realistic daily goal)

* 5000 ml (exceeding a reasonable threshold)

* 0 ml (invalid goal)

****Test Steps:****

1. Navigate to the Water Intake Tracking section.
2. Locate the option to set a daily hydration goal.
3. Enter different goal values using the provided input field.
4. Select "Save" or "Set Goal" to confirm the chosen goal.

****Postconditions:****

*

****Expected Result:****

The user's daily hydration goal is successfully saved and displayed, with appropriate error messages for invalid inputs.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case ID:**** FIT-WTR-004

****Test Case Title:**** Verify that reminders are provided to encourage regular water intake.

****Test Case Description:**** This test case validates the functionality of receiving reminders throughout the day to encourage water consumption. It will test the timing and frequency of reminders. (Note: This may require simulating time progression or using a test environment with pre-configured reminder schedules)

****Test Suite:**** Water Intake Tracking

****Test Priority:**** High

****Preconditions:****

* User has a set daily hydration goal.

* User has enabled reminder notifications within the app.

****Test Data:****

* Time intervals for reminder notifications (e.g., every 2 hours).

****Test Steps:****

1. Set a daily hydration goal and enable reminder notifications.
2. Observe the app at pre-determined time intervals to see if reminders are delivered.
3. Verify the content of the reminder messages aligns with the app's messaging guidelines and encourages hydration.

****Postconditions:****

****Expected Result:**** The app delivers reminders according to the configured schedule, prompting the user to drink water and stay hydrated.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case ID:**** FIT-WTR-005

****Test Case Title:**** Verify that users can view hydration progress and trends.

****Test Case Description:**** This test case examines the app's ability to display hydration progress for the current day and historical trends over time. It will assess the clarity and comprehensiveness of the visualized data.

****Test Suite:**** Water Intake Tracking

****Test Priority:**** Medium

****Preconditions:****

* User has logged at least 3 water intake entries for the past few days.

****Test Data:****

* Logged water intake data for multiple days.

****Test Steps:****

1. Go to the Water Intake Tracking section within the app.
2. Access the visualization options for hydration progress (e.g., graphs, charts, tables).
3. Analyze the displayed data for accuracy and clarity.
4. Verify if the app enables viewing historical trends over a selectable time period.

****Postconditions:****

****Expected Result:****

The app presents a clear and informative visualization of both daily hydration progress and broader trends, allowing users to easily track their water intake over time.

Data - 87

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Nutrition Tracking

Feature description -

The app includes a food diary and nutrition tracker, allowing users to log meals, track macronutrient intake, and monitor nutritional balance. Nutrient tracking provides insight into dietary habits, supports informed food choices, and helps users align their nutrition with their fitness goals.

Userstory title -

As a user, I want to track my nutrition so that I can monitor my diet and make informed food choices.

Acceptance criteria -

['Users can log their daily meals and snacks.', 'The app calculates macronutrient intake (carbs, fats, proteins).', 'Users can set nutritional goals and track progress.', 'The app provides nutritional information and suggestions.', 'Users can view their nutritional history and trends.']

Generated Test Cases:

Test Cases for Nutrition Tracking Feature

Below are 5 detailed test cases for the Nutrition Tracking feature of the Fitness Tracker App, adhering to the provided template:

****Test Case ID:**** TC_NUTR_001

****Test Case Title:**** Verify that users can log their daily meals and snacks.

****Test Case Description:**** This test case verifies the functionality of logging meals and snacks in the app. It ensures that users can input meal names, serving sizes, and optionally add meal descriptions.

****Test Suite:**** Nutrition Tracking

****Test Priority:**** High

****Preconditions:****

- * The user is logged into the app.
- * The user has no existing logged meals for the current day.
- * Data for various meals and snacks is available in the app's food database.

****Test Data:****

- * List of various meals and snacks with different serving sizes.

****Test Steps:****

1. Navigate to the Nutrition Tracking section of the app.
2. Select the "Add Meal" or "Add Snack" option.
3. Enter the meal name from the available options or search for it manually.
4. Input the desired serving size for the selected meal.
5. Optionally, add a description for the meal (e.g., "Grilled chicken salad with olive oil dressing").
6. Save the meal or snack entry.

****Postconditions:****

- * The logged meal or snack appears in the user's daily food log.
- * The app calculates and displays the macronutrient breakdown (carbs, fats, protein) for the logged meal or snack.

****Expected Result:**** All meals and snacks are logged successfully with accurate macronutrient information displayed.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing, Usability Testing

****Test Case ID:**** TC_NUTR_002

****Test Case Title:**** Verify that the app calculates macronutrient intake.

****Test Case Description:**** This test case verifies the accuracy of macronutrient calculation for logged meals and snacks. It confirms that the app correctly calculates total carbs, fats, and protein intake based on user inputs.

****Test Suite:**** Nutrition Tracking

****Test Priority:** High**

****Preconditions:****

- * The user is logged into the app.
- * The user has logged several meals and snacks for the current day.

****Test Data:****

- * A combination of meals and snacks with known macronutrient values.

****Test Steps:****

1. Navigate to the Nutrition Tracking section of the app.
2. View the user's daily food log.
3. Observe the displayed macronutrient breakdown (carbs, fats, protein) for each logged meal or snack.
4. Calculate the total macronutrients consumed based on the logged food items and serving sizes.
5. Compare the app's calculated macronutrient totals with the manually calculated totals.

****Postconditions:****

- * The app displays accurate macronutrient totals for the day.

****Expected Result:**** The app's calculated macronutrient totals match the manually calculated totals.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:**** Functional Testing, Data Validation

****Test Case ID:** TC_NUTR_003**

****Test Case Title:**** Verify that users can set nutritional goals and track progress.

****Test Case Description:**** This test case ensures that users can define specific nutritional goals (e.g., protein

intake, calorie targets) and track their progress towards achieving those goals.

****Test Suite:**** Nutrition Tracking

****Test Priority:**** High

****Preconditions:****

- * The user is logged into the app.
- * The user has logged at least one meal for the current day.

****Test Data:****

- * Specific nutrient targets (e.g., protein intake of 150g) and calorie goals.

****Test Steps:****

1. Navigate to the settings or goal-setting section within Nutrition Tracking.
2. Define a target for a specific nutrient (e.g., protein intake) or calorie goal.
3. Save the set goals.
4. Log additional meals and snacks throughout the day.
5. View the progress tracker for the selected goal.

****Postconditions:****

- * The app displays the user's current progress towards the set goal.
- * The app provides visual or numerical representations of progress (e.g., percentage completed).

****Expected Result:**** The app accurately tracks progress towards the set nutritional goals, reflecting the user's intake relative to the targets.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing, User Interface Testing

****Test Case ID:**** TC_NUTR_004

****Test Case Title:**** Verify that the app provides nutritional information and suggestions.

****Test Case Description:**** This test case verifies if the app provides nutritional details for logged foods such as calories, macros, vitamins, and minerals. It also checks for any personalized suggestions based on user intake and goals.

****Test Suite:**** Nutrition Tracking

****Test Priority:**** Medium

****Preconditions:****

- * The user is logged into the app.
- * The user has logged a meal from the app's database.

****Test Data:****

- * A meal with detailed nutritional information available in the app's database.

****Test Steps:****

1. Navigate to the Nutritional History or View Meal Details section of the app.
2. Select the logged meal.
3. Observe the detailed nutritional information displayed for the selected meal, including calories, macros, vitamins, and minerals.
4. Check if the app provides any personalized suggestions based on the logged meal, such as recommendations for complementary foods or adjustments to achieve nutritional goals.

****Postconditions:****

* The app displays comprehensive nutritional information for logged foods.

****Expected Result:**** The app presents accurate nutritional data for logged foods and offers relevant suggestions based on user intake and set goals.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Data Validation, Usability Testing

****Test Case ID:**** TC_NUTR_005

****Test Case Title:**** Verify that users can view their nutritional history and trends.

****Test Case Description:**** This test case confirms the user's ability to access and analyze their past nutritional intake. It checks the ability to view historical food logs, track trends in macronutrient consumption, and analyze overall dietary patterns.

****Test Suite:**** Nutrition Tracking

****Test Priority:**** Medium

****Preconditions:****

* The user has logged meals and snacks for multiple consecutive days.

****Test Data:****

* A sufficient history of logged meals and snacks to demonstrate trends.

****Test Steps:****

1. Navigate to the nutritional history or trend analysis section within the app.
2. Select a specific date range to view past food logs.
3. Observe the displayed history of logged meals and snacks for the selected period.
4. Analyze the trends in macronutrient (carbs, fats, protein) intake, observing any patterns or changes over time.

****Postconditions:****

* The app displays a clear and organized history of past food logs.

****Expected Result:**** Users can efficiently access their nutritional history, view trends in macronutrient consumption, and gain insights into their long-term dietary patterns.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Data Analytics Testing

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Progress Reports

Feature description -

Users receive regular progress reports and summaries summarizing their activity levels, workout performance, and goal attainment. Progress reports highlight achievements, trends, and areas for improvement, empowering users to make informed decisions and adjustments to their fitness routines.

Userstory title -

As a user, I want to receive progress reports so that I can track my achievements and identify areas for improvement.

Acceptance criteria -

['Users receive weekly and monthly progress reports.', 'Reports include activity levels, workout performance, and goal attainment.', 'Users can view detailed breakdowns of achievements and trends.', 'The app provides recommendations based on report findings.', 'Users can customize the frequency and content of reports.']

Generated Test Cases:

Fitness Tracker App - Progress Reports Test Cases

Test Case ID: PTC_PR_001

****Test Case Title:**** Verify that users receive weekly progress reports.

****Test Case Description:**** This test case verifies that the app generates and delivers a weekly progress report to the user as expected, summarizing their activity levels, workout performance, and goal attainment.

****Test Suite:**** Progress Reports

****Test Priority:**** High

****Preconditions:****

- * User account is created and logged in.
- * User has completed at least one week's worth of activities and workouts.
- * User has set at least one fitness goal.

****Test Data:**** Sample user activity data for a week.

****Test Steps:****

1. Monitor app notifications or designated section for weekly report delivery.
2. Open and review the received weekly progress report.
3. Verify report includes activity levels (steps, calories burned, distance traveled).
4. Confirm report includes workout performance (duration, type, intensity) from the week.
5. Check if the report summarizes progress towards set fitness goals.

****Postconditions:****

- * User has acknowledged receipt of the weekly progress report.

****Expected Result:**** The app successfully delivers a comprehensive weekly progress report to the user containing summarized activity levels, workout performance, and goal attainment information.

****Test Case ID:** PTC_PR_002**

****Test Case Title:** Verify that users receive monthly progress reports.**

****Test Case Description:**** This test case verifies that the app generates and delivers a monthly progress report to the user as expected, summarizing their activity levels, workout performance, and goal attainment over the past month.

****Test Suite:** Progress Reports**

****Test Priority:** High**

****Preconditions:****

- * User account is created and logged in.
- * User has completed at least one month's worth of activities and workouts.
- * User has set at least one fitness goal.

****Test Data:** Sample user activity data for a month.**

****Test Steps:****

1. Monitor app notifications or designated section for month-end report delivery.
2. Open and review the received monthly progress report.
3. Verify report includes monthly activity levels averages (steps, calories burned, distance traveled).
4. Confirm report includes an overview of workout performance (average duration, types, intensity) for the month.
5. Check if the report summarizes overall progress towards set monthly fitness goals.

****Postconditions:****

- * User has acknowledged receipt of the monthly progress report.

****Expected Result:** The app successfully delivers a comprehensive monthly progress report to the user**

containing summarized monthly activity levels, workout performance, and goal attainment information.

****Test Case ID:** PTC_PR_003**

****Test Case Title:** Verify that progress reports include detailed breakdowns of achievements and trends.**

****Test Case Description:** This test case verifies that each progress report includes specific details about the user's achievements and performance trends over time.**

****Test Suite:** Progress Reports**

****Test Priority:** Medium**

****Preconditions:****

- * User account is created and logged in.
- * User has completed activities and workouts over several weeks.
- * User has set at least one fitness goal.

****Test Data:** User activity data spanning multiple weeks.**

****Test Steps:****

1. Access the progress report for the past week.
2. Navigate through the report sections to find detailed breakdowns.
3. Verify that the report shows a step-by-step progression of activity levels throughout the week.
4. Check for trends in workout performance (duration, intensity) displayed as charts or graphs.
5. Confirm that the breakdown identifies key achievements (e.g., exceeding daily step goal, completing a specific workout milestone) within the week.

****Postconditions:****

- * User understands achievements and trends based on the report data.

****Expected Result:**** The progress report provides detailed breakdowns of achievement milestones, activity level trends, and workout performance fluctuations, allowing users to analyze their progress effectively.

****Test Case ID:**** PTC_PR_004

****Test Case Title:**** Verify that the app provides personalized recommendations based on report findings.

****Test Case Description:**** This test case ensures that the app analyzes the user's progress data and delivers relevant advice and recommendations for improvement or optimization.

****Test Suite:**** Progress Reports

****Test Priority:**** Medium

****Preconditions:****

- * User account is created and logged in.
- * User has a set of fitness goals and completed activities/workouts.
- * User has received at least one progress report.

****Test Data:**** User activity data displaying areas where improvements or adjustments are needed.

****Test Steps:****

1. Open the progress report.
2. Locate the section containing personalized recommendations.
3. Analyze the provided recommendations based on the report findings.
4. Verify that recommendations are relevant and actionable (e.g., increasing workout frequency, modifying exercise intensity).
5. Check if recommendations address specific areas where user performance or goal attainment require attention.

****Postconditions:****

* User understands the recommendations and considers implementing them.

****Expected Result:**** The app provides personalized, data-driven recommendations tailored to the user's progress reports, offering actionable insights for enhancing their fitness journey.

****Test Case ID:**** PTC_PR_005

****Test Case Title:**** Verify that users can customize the frequency and content of reports.

****Test Case Description:**** This test case confirms the functionality to tailor the reporting settings according to individual user needs and preferences.

****Test Suite:**** Progress Reports

****Test Priority:**** Medium

****Preconditions:****

* User account is created and logged in.

****Test Data:****

****Test Steps:****

1. Navigate to the app's settings or preferences.
2. Locate the section dedicated to progress report customization.
3. Adjust the report frequency (weekly, monthly, or custom).
4. Select desired content categories to include in the report (e.g., activity levels, workout details, goal progress).
5. Save and apply the customized report settings.

****Postconditions:****

* App's reporting behavior reflects the user's chosen settings.

****Expected Result:**** Users can effectively personalize their progress reports by modifying the frequency and content delivered, ensuring they receive relevant and timely information according to their needs.

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Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

In-App Challenges

Feature description -

The app offers in-app challenges and competitions, encouraging users to set personal records, compete with friends, and earn rewards for achieving fitness milestones. In-app challenges add an element of fun, motivation, and friendly competition to the fitness tracking experience.

Userstory title -

As a user, I want to participate in in-app challenges so that I can stay motivated and achieve my fitness goals.

Acceptance criteria -

['Users can join various in-app challenges.', 'Challenges have clear objectives and rules.', 'Users can track their progress within the challenge.', 'Rewards are provided for achieving challenge milestones.', 'Users can compete with friends and view leaderboards.']

Generated Test Cases:

Fitness Tracker App - In-App Challenges Test Cases

Test Case 1

* **Test Case ID:** TC_CHAL_001

* **Test Case Title:** Verify that users can join various in-app challenges

* **Test Case Description:** This test case aims to confirm that users can successfully join different types of in-app challenges offered by the app.

* **Test Suite:** In-App Challenges

* **Test Priority:** High

* **Preconditions:**

- * A registered user is logged into the app.

- * The "Challenges" section of the app is accessible.

- * At least two different types of challenges are available (e.g., daily step challenge, weekly run challenge).

* **Test Data:** N/A

* **Test Steps:**

1. Navigate to the "Challenges" section of the app.
2. Explore the available challenges and identify two different types.
3. Tap on the "Join" button for each selected challenge.
4. Review any challenge specific rules or instructions.

5. Confirm successful joining by observing a relevant notification or indicator within the app UI.

* **Postconditions:**

* The user is now enrolled in both selected challenges.

* Progress tracking for both challenges is accessible.

* **Expected Result:** The user can successfully join multiple challenges with different objectives and rules.

* **Severity:** Major

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 2

* **Test Case ID:** TC_CHAL_002

* **Test Case Title:** Verify that challenges have clear objectives and rules

* **Test Case Description:** This test case verifies the clarity and comprehensibility of challenge objectives and rules provided to the user.

* **Test Suite:** In-App Challenges

* **Test Priority:** Medium

* **Preconditions:**

* A user is logged in and has joined a challenge.

* The selected challenge has specific objectives and rules.

* **Test Data:** N/A

* **Test Steps:**

1. Navigate to the user profile or challenge dashboard.

2. Locate the selected challenge and access its details.

3. Read the challenge objectives and rules outlined in the app.

4. Assess the clarity and understanding gained from the provided information.

* **Postconditions:**

- * No changes to the app or user data.

* **Expected Result:** Challenge objectives and rules are clearly communicated, allowing the user to understand the challenge parameters and expectations.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 3

* **Test Case ID:** TC_CHAL_003

* **Test Case Title:** Verify that users can track their progress within the challenge

* **Test Case Description:** This test case ensures the functionality for users to monitor their progress towards achieving challenge goals.

* **Test Suite:** In-App Challenges

* **Test Priority:** High

* **Preconditions:**

- * A user has joined a challenge and made some progress towards the challenge goal.

* **Test Data:** N/A

* **Test Steps:**

1. Navigate to the challenge dashboard or progress tracker.
2. Observe the displayed progress bars, metrics, or other indicators.
3. Verify that the progress reflected accurately corresponds to the user's current challenge status.

* **Postconditions:**

- * No changes to the app or user data.

* **Expected Result:** The app accurately displays the user's progress within the challenge, providing a clear understanding of their current standing towards achieving the challenge goal.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 4

* **Test Case ID:** TC_CHAL_004

* **Test Case Title:** Verify that rewards are provided for achieving challenge milestones

* **Test Case Description:** This test case validates the reward system associated with achieving specified challenge milestones.

* **Test Suite:** In-App Challenges

* **Test Priority:** Medium

* **Preconditions:**

- * A user has joined a challenge with milestone-based rewards.

- * The user has met the criteria to unlock a reward for a specific milestone.

* **Test Data:** N/A

* **Test Steps:**

1. Participate in the challenge and reach the designated milestone.
2. Check for a notification or announcement within the app upon achieving the milestone.
3. Locate the reward associated with the milestone within the app.
4. Verify that the reward is correctly awarded and accessible to the user.

* **Postconditions:**

- * The reward is recorded and reflected in the user's profile or inventory.
- * **Expected Result:** Users are rewarded upon achieving predetermined milestones within challenges, as defined by the app's reward system.
- * **Severity:** Major
- * **Priority:** Medium
- * **Type of Testing:** Functional Testing
- * **Test Case Approach:** Positive

Test Case 5

- * **Test Case ID:** TC_CHAL_005
- * **Test Case Title:** Verify that users can compete with friends and view leaderboards
- * **Test Case Description:** This test case ensures the functionality for users to compete with their friends and view real-time leaderboards within challenges.
- * **Test Suite:** In-App Challenges
- * **Test Priority:** High
- * **Preconditions:**
 - * The user has joined a challenge that supports friend competition and leaderboards.
 - * At least two friends are also participating in the same challenge.
- * **Test Data:** N/A
- * **Test Steps:**
 1. Navigate to the challenge dashboard.
 2. Locate the leaderboard section within the challenge information.
 3. Verify that the leaderboard displays the current ranking of all participants.
 4. Identify the positions of the user's friends on the leaderboard.

* **Postconditions:**

* The leaderboard is accurately reflecting the current challenge standings.

* **Expected Result:** The app allows users to compete with friends in challenges and view real-time leaderboards that accurately display their progress and relative standings.

These test cases provide a foundation for ensuring the quality and functionality of the In-App Challenges feature. It's important to note that this list is not exhaustive and should be expanded upon based on the specific requirements and functionalities of the app.

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Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Customizable Dashboards

Feature description -

Users can customize their app dashboard to display relevant fitness metrics, goals, and progress trackers based on their preferences and priorities. Customizable dashboards provide a personalized user experience, allowing users to focus on the metrics that matter most to them.

Userstory title -

As a user, I want to customize my dashboard so that I can focus on the fitness metrics that are most important to me.

Acceptance criteria -

['Users can select which metrics to display on their dashboard.', 'The app allows customization of dashboard layout and theme.', 'Users can save and update their dashboard settings.', 'Dashboard displays are dynamic and update in real-time.', 'Users can reset the dashboard to default settings.']

Generated Test Cases:

Test Case Definition: Fitness Tracker App - Customizable Dashboards

Here are 5 test cases designed to cover the acceptance criteria for the "Customizable Dashboards" feature:

****Test Case 1:**** Verify that users can select metrics to display on their dashboard.

*** **Test Case Description:**** This test case verifies the functionality of selecting specific fitness metrics for display on the user's dashboard.

*** **Test Suite:**** Fitness Tracker App: User Interface

*** **Test Priority:**** High

*** **Preconditions:****

- * The user is logged into the app.
- * The user has access to the dashboard customization settings.

*** **Test Data:****

- * List of available fitness metrics (Steps, Calories burned, Distance, Heart Rate, etc.)

****Test Steps:****

1. Navigate to the dashboard customization settings.
2. From the list of available metrics, select three different metrics to be displayed on the dashboard.
3. Save the dashboard settings.
4. Observe the dashboard and confirm that the selected three metrics are displayed.

****Postconditions:****

- * Return to previous screen or log out.

****Expected Result:**** The dashboard displays the three selected metrics as configured by the user.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, User Interface Testing

****Test Case Approach:**** Positive

****Test Case 2:**** Verify that the app allows customization of dashboard layout and theme.

****Test Case Description:**** This test case verifies the functionality of changing the layout arrangement and visual theme of the dashboard.

****Test Suite:**** Fitness Tracker App: User Interface

****Test Priority:**** High

****Preconditions:****

- * The user is logged in and has access to dashboard customization settings.

****Test Data:****

- * Two different dashboard layouts (e.g., vertical, horizontal)
- * Two different dashboard themes (e.g., light, dark)

****Test Steps:****

1. Navigate to the dashboard customization settings.
2. Select a layout option different from the default.

3. Observe the dashboard and confirm the layout change.
4. Select a theme option different from the default.
5. Observe the dashboard and confirm the theme change.

* **Postconditions:**

- * Return to previous screen or log out

* **Expected Result:** The dashboard reflects the selected layout and theme customizations.

* **Severity:** Major

* **Priority:** High

* **Type of Testing:** Functional Testing, User Interface Testing

* **Test Case Approach:** Positive

****Test Case 3:**** Verify that users can save and update their dashboard settings.

* **Test Case Description:** This test case verifies the functionality of saving customized dashboard settings and updating them subsequently.

* **Test Suite:** Fitness Tracker App: User Management

* **Test Priority:** High

* **Preconditions:**

- * The user is logged in and has access to dashboard customization settings.

* **Test Data:**

- * Predefined set of metric selections, layout preferences, and theme choices.

* **Test Steps:**

1. Customize the dashboard settings by selecting metrics, layout, and theme.
2. Save the customized settings.
3. Later, navigate to the dashboard customization settings again.
4. Modify the selected metrics, layout, or theme.
5. Save the updated settings.

* **Postconditions:**

- * Return to previous screen or log out

* **Expected Result:** The dashboard reflects the saved and updated settings. Saved settings can be loaded and modified as needed.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, Data Handling Testing

* **Test Case Approach:** Positive

Test Case 4: Verify that dashboard displays are dynamic and update in real-time.

* **Test Case Description:** This test case verifies that the dashboard displays update dynamically in real-time as user activity changes.

* **Test Suite:** Fitness Tracker App: Real-Time Data Display

* **Test Priority:** High

* **Preconditions:**

- * The user is logged in and has a working internet connection.

- * The user has at least one metric displaying on the dashboard.

* **Test Data:**

- * Data input through simulated user activity (walking, running, or using device sensors)

* **Test Steps:**

1. Start a physical activity (simulated or real) that would update a tracked metric.
2. Observe the corresponding dashboard display for the selected metric.
3. Note the changes in the displayed value as the activity progresses.

* **Postconditions:**

- * Logging out, or ending simulated activity

* **Expected Result:** The dashboard metric value updates dynamically in real time reflecting the changes

in user activity.

* **Severity:** Major

* **Priority:** High

* **Type of Testing:** Functional Testing, Performance Testing, User Experience Testing

* **Test Case Approach:** Positive, Stress Testing (adjust data input intensity)

Test Case 5: Verify that users can reset their dashboard to default settings.

* **Test Case Description:** This test case verifies the functionality of resetting user-customized dashboard settings to default values.

* **Test Suite:** Fitness Tracker App: User Interface

* **Test Priority:** Medium

* **Preconditions:**

* The user is logged in and has customized dashboard settings.

* **Test Data:**

* List of default dashboard settings (default metrics, layout, theme)

* **Test Steps:**

1. Navigate to the dashboard customization settings.
2. Locate and select the option to reset dashboard to default settings.
3. Confirm the reset action.
4. Observe the dashboard and confirm that it reflects the default settings.

* **Postconditions:**

* Return to previous screen or log out

* **Expected Result:** The dashboard reverts to the default settings (metrics, layout, theme) as specified.

* **Severity:** Minor

* **Priority:** Medium

* **Type of Testing:** Functional Testing, User Experience Testing

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Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Social Sharing

Feature description -

Users can share workout summaries, achievements, and progress updates on social media platforms, inspiring others and fostering accountability. Social sharing enables users to celebrate their successes, seek support from their social networks, and stay motivated on their fitness journey.

Userstory title -

As a user, I want to share my fitness achievements on social media so that I can inspire others and stay motivated.

Acceptance criteria -

['Users can share workout summaries and achievements.', 'The app supports sharing on multiple social media platforms.', 'Users can customize the content and format of shared posts.', 'Sharing features are integrated

seamlessly with social media.', 'Users can track the engagement of their shared posts.']

Generated Test Cases:

Fitness Tracker App - Social Sharing Test Cases

****User Story:**** As a user, I want to share my fitness achievements on social media so that I can inspire others and stay motivated.

****Test Suite:**** Social Sharing Feature

****Test Case 1****

* ****Test Case ID:**** TC-SOC-001

* ****Test Case Title:**** Verify that users can share workout summaries.

* ****Test Case Description:**** This test case verifies the functionality of sharing a complete workout summary, including details like exercise type, duration, calories burned, and distance covered, to a social media platform.

* ****Test Priority:**** High

* ****Preconditions:****

* User is logged in to the fitness tracker app

* User has completed a workout and saved it in the app

* ****Test Data:**** Sample workout data with details about exercise type, duration, calories burned, and distance covered.

* ****Test Steps:****

1. Navigate to the workout summary screen of the completed workout.
2. Tap on the "Share" button.
3. Select a chosen social media platform (e.g., Facebook, Twitter).

4. Review the generated share message containing workout details.

5. Confirm the sharing action and observe the post on the selected social media platform.

* **Postconditions:**

* FitBit app displays the shared post

* **Expected Result:** A complete workout summary with all relevant details is successfully shared on the selected social media platform.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, System Testing

* **Test Case Approach:** Positive

****Test Case 2****

* **Test Case ID:** TC-SOC-002

* **Test Case Title:** Verify that the app supports sharing to multiple social media platforms.

* **Test Case Description:** This test case ensures that the app offers support for sharing workout summaries on various popular social media platforms.

* **Test Priority:** High

* **Preconditions:**

* User is logged in to the fitness tracker app.

* User has completed a workout and saved it in the app.

* **Test Data:** List of popular social media platforms (e.g., Facebook, Twitter, Instagram, LinkedIn).

* **Test Steps:**

1. Navigate to the workout summary screen of the completed workout.

2. Tap on the "Share" button.

3. Select each social media platform from the list.

4. For each platform, review the generated share message containing workout details.

5. Verify that the sharing process initiates for each selected platform.

* **Postconditions:**

* User successfully shared data on all chosen platforms.

* **Expected Result:** The app seamlessly allows sharing a workout summary to the selected social media platforms.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing, System Testing

* **Test Case Approach:** Positive

Test Case 3

* **Test Case ID:** TC-SOC-003

* **Test Case Title:** Verify that users can customize the content of shared posts.

* **Test Case Description:** This test case verifies the flexibility to customize the content shared via social media, allowing users to include or exclude specific workout details.

* **Test Priority:** High

* **Preconditions:**

* User is logged in to the fitness tracker app.

* User has completed a workout and saved it in the app.

* **Test Data:** Workout summary data with various details (duration, distance, calories burned, exercise type).

* **Test Steps:**

1. Navigate to the workout summary screen of the completed workout.

2. Tap on the "Share" button.
3. Use provided options to customize the shared content (e.g., choose to include/exclude details like distance, calories burned).
4. Review the generated share message with the customized content.
5. Confirm the sharing action and observe the post on the social media platform.

* **Postconditions:**

- * Shared post reflects user customization choices.

* **Expected Result:** The user can selectively include or exclude specific workout details while sharing on social media.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, System Testing

* **Test Case Approach:** Positive

****Test Case 4****

* **Test Case ID:** TC-SOC-004

* **Test Case Title:** Verify that sharing features are integrated seamlessly with social media.

* **Test Case Description:** This test case ensures a smooth and user-friendly experience when interacting with external social media platforms for sharing.

* **Test Priority:** High

* **Preconditions:**

- * User is logged in to the fitness tracker app.
- * User has successfully linked the app with a chosen social media platform account.

* **Test Data:** None

****Test Steps:****

1. Navigate to the workout summary screen of a completed workout.
2. Tap on the "Share" button and select the chosen social media platform.
3. Authorize the app to access the user's social media account (if necessary).
4. Review the pop-up redirect screen to the social media platform's login prompt.
5. Successfully log into the social media account.
6. Observe the seamless posting of the workout summary to the user's chosen social media feed.

****Postconditions:****

- * Shared post appears on chosen social media platform.

****Expected Result:**** The sharing process integrates smoothly with the chosen social media platform without encountering any unexpected errors or interruptions.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** System Testing, Functional Testing

****Test Case Approach:**** Positive

****Test Case 5****

****Test Case ID:**** TC-SOC-005

****Test Case Title:**** Verify users can track engagement metrics for shared posts.

****Test Case Description:**** This test case checks if the app provides data on how their shared posts are

performing on social media platforms.

* **Test Priority:** Medium

* **Preconditions:**

- * User is logged in to the fitness tracker app.

- * User has successfully shared a workout summary on a social media platform.

* **Test Data:** None

* **Test Steps:**

1. Navigate to the "My Posts" or "Social Sharing" section within the fitness tracker app.
2. Locate the shared workout summary post.
3. Examine the available engagement metrics (e.g., number of likes, comments, shares, views).

* **Postconditions:**

- * User can view basic engagement metrics for the shared post.

* **Expected Result:** The app appropriately displays relevant engagement metrics for each shared post, allowing users to gauge the post's reach and impact.

* **Severity:** Minor

* **Priority:** Low

* **Type of Testing:** Functional Testing, System Testing

* **Test Case Approach:** Positive

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Rest and Recovery Tracking

Feature description -

The app includes features for tracking rest days, recovery activities, and recovery metrics such as resting heart rate and sleep quality. Rest and recovery tracking helps users prioritize recovery, prevent overtraining, and optimize their overall health and performance.

Userstory title -

As a user, I want to track my rest and recovery so that I can optimize my fitness performance and prevent overtraining.

Acceptance criteria -

['Users can log rest days and recovery activities.', 'The app tracks metrics such as resting heart rate and sleep quality.', 'Users receive recommendations for recovery based on their activities.', 'The app provides alerts for insufficient recovery time.', 'Users can view trends and history of their recovery data.']

Generated Test Cases:

Here are five detailed test cases for the "Rest and Recovery Tracking" feature of the Fitness Tracker App, following the provided template.

****Test Case 1: Logging Rest Days****

*** **Test Case ID:** FTR-REC-001**

*** **Test Case Title:** Verify that users can log rest days.**

*** **Test Case Description:** This test case verifies the functionality of logging rest days in the app. It confirms that users can select a date as a rest day and that this information is properly recorded.**

*** **Test Suite:** Rest and Recovery**

*** **Test Priority:** High**

*** **Preconditions:****

- * User has successfully logged into the app.**

- * User has an active calendar view.**

*** **Test Data:****

*** **Test Steps:****

- 1. Navigate to the calendar view within the app.**
- 2. Select a specific date in the future.**
- 3. Tap the "Log Rest Day" option.**
- 4. Confirm the selected date is marked as a rest day in the calendar.**

*** **Postconditions:****

- * The selected date remains marked as a rest day.**

- * An entry for the rest day appears in the user's recovery history.**

*** **Expected Result:** The app successfully logs the selected date as a rest day.**

*** **Severity:** Critical**

*** **Priority:** High**

*** **Type of Testing:** Functional Testing, User Interface Testing**

*** **Test Case Approach:** Positive**

****Test Case 2: Tracking Resting Heart Rate****

* **Test Case ID:** FTR-REC-002

* **Test Case Title:** Verify that the app tracks resting heart rate.

* **Test Case Description:** This test case ensures the app accurately captures and stores resting heart rate data provided by the user.

* **Test Suite:** Rest and Recovery

* **Test Priority:** High

* **Preconditions:**

- * User has logged into the app.

- * User has allowed the app to access their heart rate data (if applicable through wearable device integration).

* **Test Data:** A sample resting heart rate value

* **Test Steps:**

1. Navigate to the "Recovery" section of the app.
2. Initiate the process for logging resting heart rate.
3. Enter a valid resting heart rate value.
4. Confirm the entered value is saved in the app.

* **Postconditions:**

- * The entered resting heart rate is recorded in the app's user dataset.

- * The data point is displayed in the user's recovery history.

* **Expected Result:** The app accurately records the provided resting heart rate value.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, Integration Testing (if wearable device integration is used)

* **Test Case Approach:** Positive

****Test Case 3: Rest and Recovery Recommendations****

* **Test Case ID:** FTR-REC-003

* **Test Case Title:** Verify that the app provides relevant recovery recommendations.

* **Test Case Description:** This test case examines whether the app offers personalized recovery recommendations based on the user's logged activities, rest days, and metrics.

* **Test Suite:** Rest and Recovery

* **Test Priority:** Medium

* **Preconditions:**

- * User has logged at least one rest day and some activity sessions.

- * User has entered resting heart rate data for a few days.

* **Test Data:** Pre-populated activity logs and resting heart rate.

* **Test Steps:**

1. Record a recent workout session in the app, including duration and intensity.
2. Navigate to the "Recovery" section.
3. Examine the provided recommendations.

* **Postconditions:**

- * The app provides tailored recommendations for the user based on their recent activity and recorded metrics.

* **Expected Result:** The recommendations are suitable and helpful for promoting recovery.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing, Business Logic Testing

* **Test Case Approach:** Positive

****Test Case 4: Insufficient Recovery Time Alert****

* **Test Case ID:** FTR-REC-004

* **Test Case Title:** Verify that the app alerts for insufficient recovery time.

* **Test Case Description:** This test case ensures that the app notifies users when they are approaching or exceeding recommended recovery time thresholds.

* **Test Suite:** Rest and Recovery

* **Test Priority:** Medium

* **Preconditions:**

- * User has logged multiple consecutive workouts with varying intensities.

- * App settings have recovery time recommendations enabled.

* **Test Data:**

* **Test Steps:**

1. Log a workout session in the app.
2. Repeat the process of logging workouts over several consecutive days, exceeding the estimated recovery time.
3. Observe if the app provides alerts or notifications.

* **Postconditions:**

- * The app displays an alert indicating insufficient recovery time.

- * The alert suggests appropriate recovery strategies or actions.

* **Expected Result:** The app effectively alerts the user about potential overtraining risks.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing, User Alert Testing

* **Test Case Approach:** Positive, Negative

Test Case 5: Viewing Recovery Data Trends

* **Test Case ID:** FTR-REC-005

* **Test Case Title:** Verify that users can view trends in their recovery data.

* **Test Case Description:** This test case ensures the app allows users to visualize and analyze historical trends in their rest, sleep, and heart rate data.

* **Test Suite:** Rest and Recovery

* **Test Priority:** Low

* **Preconditions:**

- * User has recorded at least 7 days of data for rest days, sleep quality, and resting heart rates.

* **Test Data:** Logged user data for a week

* **Test Steps:**

1. Navigate to the "Recovery" section of the app.
2. Find the "Trends" or "History" tab.
3. Analyze the displayed data visualizations (line graphs, charts, etc.)

* **Postconditions:**

- * The user can download their recovery data history.

* **Expected Result:** The app presents clear and insightful visualizations of their recovery data trends over time.

* **Severity:** Minor

* **Priority:** Low

* **Type of Testing:** Functional Testing, User Interface Testing

* **Test Case Approach:** Positive

These test cases provide a starting point for ensuring the quality of the "Rest and Recovery Tracking" feature in the Fitness Tracker App. They cover various aspects, from basic logging to advanced trend analysis, and should be adapted and expanded based on the specific design and implementation details of the app.

Data - 93

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Audio Coaching

Feature description -

Users can access audio-guided workouts, coaching cues, and motivational messages during their workouts, enhancing engagement and adherence. Audio coaching provides real-time feedback, encouragement, and guidance, simulating the experience of having a personal trainer or workout buddy.

Userstory title -

As a user, I want to access audio coaching during workouts so that I can stay motivated and receive real-time guidance.

Acceptance criteria -

['Users can access a variety of audio-guided workouts.', 'Audio coaching includes motivational messages and coaching cues.', 'Users can choose coaching based on workout type and intensity.', 'Audio coaching integrates seamlessly with other app features.', 'Users can control audio settings and preferences.']

Generated Test Cases:

Test Cases for Audio Coaching Feature in Fitness Tracker App

****Test Case ID:** TC_AC1_01**

****Test Case Title:** Verify that users can access a variety of audio-guided workouts.**

****Test Case Description:** This test case verifies the availability and diversity of audio-guided workouts offered within the app.**

****Test Suite:** Audio Coaching Feature**

****Test Priority:** High**

****Preconditions:****

* User is logged in to the fitness tracker app.

* Internet connection is available.

****Test Data:** No test data needed**

****Test Steps:****

1. Navigate to the "Workouts" section of the app.
2. Select the "Audio Coaching" tab or option.
3. Observe the list of available audio-guided workouts.
4. Verify that the workouts cover a variety of categories (e.g., cardio, strength training, yoga, mindfulness).
5. Attempt to select at least three different workout types.

****Postconditions:****

* No error messages or crashes are encountered during navigation or workout selection.

****Expected Result:****

A user should be presented with a diverse range of audio-guided workouts across different categories.

****Severity:**** Blocker

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_AC2_01

****Test Case Title:**** Verify that audio coaching includes motivational messages and coaching cues.

****Test Case Description:**** This test case verifies the inclusion of motivational messages and coaching cues within the audio-guided workouts.

****Test Suite:**** Audio Coaching Feature

****Test Priority:**** High

****Preconditions:****

* User has selected an audio-guided workout.

* Playback has started.

****Test Data:****

* Select a workout that includes voice instructions or coaching cues.

****Test Steps:****

1. Start playing the selected audio-guided workout.

2. Listen attentively to the audio coach's instructions and messages.

3. Identify and note the presence of:

- * Motivational phrases or encouragement.
- * Specific coaching cues related to form or technique.
- * Cueing for transitions between exercise sets or activities.

****Postconditions:****

* No inconsistencies or errors are detected in the audio coaching.

****Expected Result:****

The audio-guided workout should consistently incorporate motivational messages and clear coaching cues to guide the user through the exercise.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****(Add more distinct test cases covering the remaining acceptance criteria)****

Remember to repeat this template for each test case, adjusting the details and steps to thoroughly cover each

acceptance criterion. Don't forget to consider negative scenarios and edge cases to ensure comprehensive testing coverage.

Data - 94

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Integration with Health Apps

Feature description -

The app integrates with health and wellness apps such as calorie counters, meditation apps, and mental health trackers, enabling users to consolidate their health data and gain a comprehensive view of their overall well-being. Integration with health apps promotes holistic health management and synergy between different aspects of wellness.

Userstory title -

As a user, I want to integrate the fitness tracker app with other health apps so that I can have a comprehensive view of my well-being.

Acceptance criteria -

['The app integrates with popular health and wellness apps.', 'Users can sync data from connected health apps.', 'The app provides a consolidated view of health metrics.', 'Users receive insights based on combined data from multiple apps.', 'Integration settings are easy to manage and configure.']

Generated Test Cases:

Test Cases for Fitness Tracker App: Health App Integration

****Test Case 1:****

****Test Case ID:**** FIT-INT-001

****Test Case Title:**** Verify that the app integrates with a popular calorie counter app.

****Test Case Description:**** This test case aims to verify if the app can successfully connect with a known calorie counter app and sync relevant data.

****Test Suite:**** Fitness Tracker App Integration

****Test Priority:**** High

****Preconditions:****

- * User has an active account on the Fitness Tracker App.
- * User has an active account on a popular calorie counter app (e.g., MyFitnessPal, Lose It!).
- * Both apps are installed on the device.
- * Device has an active internet connection.
- * User has granted necessary permissions to the Fitness Tracker App to access data from the calorie counter app.

****Test Data:**** User ID, App Credentials for the tested calorie counter app

****Test Steps:****

1. Navigate to the app settings within the Fitness Tracker App.
2. Select the option to connect with health apps.
3. Search for and select the specified calorie counter app.
4. Authorize the connection by granting required permissions.
5. Verify that data (e.g., calories consumed, macronutrients) from the calorie counter app is successfully synced into the Fitness Tracker App.

****Postconditions:****

* The user should be able to view their calorie intake from the connected calorie counter app within the Fitness Tracker App's dashboard.

* No errors or warnings should be displayed during the connection process.

****Expected Result:**** The Fitness Tracker App successfully connects with the calorie counter app and displays accurate synced data.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Integration Testing

****Test Case Approach:**** Positive

****Test Case 2:****

****Test Case ID:**** FIT-INT-002

****Test Case Title:**** Verify that the app provides a consolidated view of health metrics from various integrated apps.

****Test Case Description:**** This test case explores the consolidation feature of the app by connecting with multiple health apps and verifying the combined presentation of metrics.

****Test Suite:**** Fitness Tracker App Integration

****Test Priority:**** High

****Preconditions:****

* User has an active account on the Fitness Tracker App.

* User has active accounts on a calorie counter app and a meditation app (e.g., Headspace).

* Both apps are installed on the device.

* Device has an active internet connection.

* User has granted necessary permissions to the Fitness Tracker App to access data from both apps.

****Test Data:**** User ID, App Credentials for both tested apps

****Test Steps:****

1. Connect the Fitness Tracker App to the calorie counter app as described in Test Case 1.

2. Connect the Fitness Tracker App to the meditation app following similar steps as above.

3. Navigate to the app's dashboard or health summary section.

4. Verify that key metrics (e.g., calories consumed, steps taken, meditation duration) are displayed in a consolidated view.

5. Explore the app's reporting features (if available) to confirm that the combined data is presented accurately.

****Postconditions:****

* The user should be able to access a consolidated view of health metrics from both integrated apps.

* No errors or warnings should be displayed while viewing consolidated data.

****Expected Result:**** The Fitness Tracker App successfully integrates data from both apps and presents a comprehensive, consolidated view of relevant health metrics.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Integration Testing, System Testing

****Test Case Approach:**** Positive

******(Continue writing test cases following the same template for the remaining acceptance criteria.)******

Data - 95

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Body Composition Tracking

Feature description -

Users can track changes in body composition metrics such as weight, body fat percentage, muscle mass, and BMI over time. Body composition tracking provides insights into changes in physique, fitness progress, and the effectiveness of exercise and nutrition interventions.

Userstory title -

As a user, I want to track my body composition so that I can monitor my fitness progress and make informed decisions about my training and nutrition.

Acceptance criteria -

['Users can log body composition metrics such as weight, body fat percentage, and muscle mass.', 'The app calculates and displays BMI based on logged data.', 'Users can view trends and history of body composition changes.', 'The app provides insights and recommendations based on body composition data.', 'Users can set goals for body composition metrics.']

Generated Test Cases:

Here are 5 test cases for the "Body Composition Tracking" feature of the Fitness Tracker App, following your provided template:

Test Case 1

* **Test Case ID:** TC_BCC_001

* **Test Case Title:** Verify that users can log weight, body fat percentage, and muscle mass.

* **Test Case Description:** This test case verifies the functionality for users to manually input their weight, body fat percentage, and muscle mass measurements into the app.

* **Test Suite:** Body Composition Tracking

* **Test Priority:** High

* **Preconditions:**

- * User has an active account in the Fitness Tracker App.

- * User is logged into the app.

* **Test Data:** Sample weight (e.g., 70 kg), body fat percentage (e.g., 15%), muscle mass (e.g., 35 kg)

* **Test Steps:**

1. Navigate to the "Body Composition" section of the app.
2. Tap on the "Add Measurement" button.
3. Enter the sample weight, body fat percentage, and muscle mass values into the respective fields.
4. Tap the "Save" button to record the data.
5. Verify that the entered data is displayed in the body composition history section.

* **Postconditions:**

- * Body composition data is saved in the user's profile.

* **Expected Result:** The app successfully records the entered body composition data.

****Test Case 2****

*** **Test Case ID:** TC_BCC_002**

*** **Test Case Title:** Verify that the app calculates and displays BMI based on logged data.**

*** **Test Case Description:** This test case confirms that the app accurately calculates and presents the Body Mass Index (BMI) derived from the logged weight and height.**

*** **Test Suite:** Body Composition Tracking**

*** **Test Priority:** High**

*** **Preconditions:****

- * User has logged weight data in the app (from TC_BCC_001).**

- * User has provided their height in the app's profile settings.**

*** **Test Data:** User-specific weight and height information.**

*** **Test Steps:****

- 1. Navigate to the "Body Composition" section of the app.**
- 2. Ensure the BMI value is displayed next to the recorded weight data.**

*** **Postconditions:** None**

*** **Expected Result:** The app correctly calculates and displays the user's BMI based on their logged weight and height.**

****Test Case 3****

*** **Test Case ID:** TC_BCC_003**

*** **Test Case Title:** Verify that users can view trends and history of body composition changes.**

*** **Test Case Description:** This test case ensures that the app provides a visual representation of body composition trends over time, allowing users to analyze their progress.**

*** **Test Suite:** Body Composition Tracking**

*** **Test Priority:** Medium**

****Preconditions:****

* The user has logged multiple body composition measurements (weight, body fat percentage, muscle mass) over a period of time.

****Test Data:**** Multiple sets of body composition data with varying dates.

****Test Steps:****

1. Open the "Body Composition" section of the app.
2. Access the history or trends chart for the selected metric (e.g., weight).
3. Observe if the chart accurately displays the recorded data points over time with appropriate labels and formatting.
4. Interact with the chart (e.g., zoom, pan) to verify its responsiveness.

****Postconditions:****

- * User can switch between different body composition metrics in the history visualization.
 - * User can filter the history data by date range.
- **Expected Result:**** The app presents a clear and visually intuitive representation of trends in the logged body composition data.

****Test Case 4****

****Test Case ID:**** TC_BCC_004

****Test Case Title:**** Verify that the app provides insights and recommendations based on body composition data.

****Test Case Description:**** This test case evaluates if the app delivers personalized insights based on the user's body composition trends and helps with setting meaningful goals.

****Test Suite:**** Body Composition Tracking

****Test Priority:**** Medium

****Preconditions:****

- * User has logged at least three body composition measurements for a specific metric (e.g., weight).

* **Test Data:** Sample body composition data history.

* **Test Steps:**

1. Access the "Body Composition" section of the app.
2. Review the insights or recommendations provided based on the logged data.
3. Assess if the recommendations are relevant, actionable, and align with user goals (e.g., weight loss, muscle gain).

* **Postconditions:**

* User can adjust personal goals for body composition metrics within the app.

* **Expected Result:** The app generates useful and personalized insights and recommendations based on the user's body composition history and goals.

****Test Case 5****

* **Test Case ID:** TC_BCC_005

* **Test Case Title:** Verify that users can set goals for body composition metrics.

* **Test Case Description:** This test case verifies the functionality to allow users to set target weight, body fat percentage, muscle mass, and BMI goals within the app.

* **Test Suite:** Body Composition Tracking

* **Test Priority:** Medium

* **Preconditions:**

* User has an active account in the Fitness Tracker App.

* User is logged into the app.

* **Test Data:**

* Set target weight (e.g., 65 kg), body fat percentage (e.g., 12%), muscle mass (e.g., 38 kg), BMI (e.g., 22).

* **Test Steps:**

1. Navigate to the "Body Composition" section of the app.
2. Tap on the "Set Goal" button.

3. Enter the desired target values for each metric.

4. Tap the "Save" button to save the goals.

* **Postconditions:**

- * Goal progress tracking is displayed for the selected metrics.

* **Expected Result:** The app successfully registers and displays the user-defined goals for the chosen body composition metrics.

Data - 96

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Workout Analysis

Feature description -

The app offers detailed workout analysis tools, including performance metrics, trends, and insights into exercise intensity, duration, and calorie burn. Workout analysis helps users assess the effectiveness of their workouts, identify areas for improvement, and optimize training strategies for better results.

Userstory title -

As a user, I want to analyze my workouts so that I can assess my performance and optimize my training strategies.

Acceptance criteria -

['Users can view detailed performance metrics for each workout.', 'The app provides trends and insights into workout intensity and duration.', 'Users can track calorie burn and other health metrics.', 'The app offers recommendations based on workout analysis.', 'Users can compare current workouts with past performance.']

Generated Test Cases:

Here are 5 detailed test cases for the "Workout Analysis" feature of the Fitness Tracker App:

****Test Case 1****

* **Test Case ID:** WTAN001

* **Test Case Title:** Verify that users can view detailed performance metrics for each workout.

* **Test Case Description:** This test case aims to verify that the app displays comprehensive performance metrics for each individual workout, including distance traveled, calories burned, heart rate, workout duration, and exercise type.

* **Test Suite:** Workout Analysis

* **Test Priority:** High

* **Preconditions:**

- * User has logged into the app.
- * The user has previously completed at least one workout.

* **Test Data:** Data from a sample workout logged by the user.

* **Test Steps:**

1. Navigate to the "Workouts" section of the app.
2. Select a previously recorded workout from the list.
3. Verify that the app displays detailed performance metrics for the selected workout, including distance,

calories burned, heart rate, duration, and exercise type.

4. Check the accuracy of the displayed metrics against the actual workout data.

* **Postconditions:**

* User remains on the workout details page.

* **Expected Result:** The app should accurately display all relevant performance metrics for the selected workout.

* **Severity:** Critical

* **Type of Testing:** Functional Testing

Test Case 2

* **Test Case ID:** WTAN002

* **Test Case Title:** Verify that the app provides trends and insights into workout intensity and duration.

* **Test Case Description:** This test case checks if the app effectively visualizes trends in workout intensity (e.g., average heart rate, average pace) and duration over time.

* **Test Suite:** Workout Analysis

* **Test Priority:** High

* **Preconditions:**

* User has logged into the app.

* The user has recorded multiple workouts over a period of time.

* **Test Data:** Data from multiple workouts recorded by the user.

* **Test Steps:**

1. Navigate to the "Analysis" or "Trends" section of the app.

2. Select the desired time period for trend analysis (e.g., "Last week", "Last month").

3. Verify that the app displays clear visual representations (graphs or charts) of trends in average workout intensity (heart rate, pace, etc.) and duration.

4. Check if the trends accurately reflect changes in the user's workout patterns over time.

* **Postconditions:**

- * User remains on the trends page.

* **Expected Result:** The app should accurately visualize trends in workout intensity and duration, allowing users to identify patterns and changes in their performance.

* **Severity:** Critical

* **Type of Testing:** Functional Testing

Test Case 3

* **Test Case ID:** WTAN003

* **Test Case Title:** Verify that users can track calorie burn and other health metrics during workouts.

* **Test Case Description:** This test verifies the accuracy of calorie burn calculations and the display of other relevant health metrics like steps taken, distance traveled, and active minutes during workouts.

* **Test Suite:** Workout Analysis

* **Test Priority:** High

* **Preconditions:**

- * User has logged into the app.

- * The user's profile includes accurate weight and other relevant health information (height, age, etc.).

- * The user is actively tracking a workout.

* **Test Data:** Example workout data with variation in intensity and duration.

* **Test Steps:**

1. Start a new workout session.
2. Record the workout's type and duration.
3. Simulate different workout intensities within the app (e.g., brisk walking, jogging, running).
4. Observe the calories burned estimate and other health metrics (steps, distance, active minutes) as the workout progresses.
5. After the workout session, compare calorie burn estimates and other health metrics with similar workout

data from other sources (e.g., wearable devices, fitness trackers) for accuracy.

* **Postconditions:**

- * Workout is saved in the app.

* **Expected Result:** The app should calculate and display calorie burn and other health metrics accurately during and after the workout session.

* **Severity:** Major

* **Type of Testing:** Functional Testing, Performance Testing

Test Case 4

* **Test Case ID:** WTAN004

* **Test Case Title:** Verify that the app offers personalized workout analysis recommendations.

* **Test Case Description:** This test case evaluates the app's ability to provide tailored recommendations based on a user's workout history, goals, and performance trends.

* **Test Suite:** Workout Analysis

* **Test Priority:** High

* **Preconditions:**

- * User has logged into the app.

- * The user has provided their fitness goals (e.g., weight loss, muscle gain, improve endurance).

- * The user has completed a sufficient number of workouts (at least 3-5) to establish a baseline.

* **Test Data:**

- * User input specifying fitness goals

- * Sample workout data reflecting different intensities and durations

- * Potential recommendations based on the user's history and goals

* **Test Steps:**

1. Navigate to the "Recommendations" or "Insights" section of the app.

2. Examine the recommendations provided based on the user's workout history, goals, and trends.
3. Compare the recommendations to the user's fitness goals and past performance.
4. Assess the relevance and usefulness of the recommendations.

* **Postconditions:**

* User remains on the recommendations page.

* **Expected Result:** The app should provide personalized workout recommendations that align with the user's fitness goals and performance data, offering actionable advice for improvement.

* **Severity:** Major

* **Type of Testing:** Functional Testing

****Test Case 5****

* **Test Case ID:** WTAN005

* **Test Case Title:** Verify that users can compare current workouts with past performance.

* **Test Case Description:** This test verifies that the user can effectively compare the metrics of their current workout with their previous performance to track progress and identify areas for improvement.

* **Test Suite:** Workout Analysis

* **Test Priority:** Medium

* **Preconditions:**

* User has logged into the app.

* The user has completed multiple workouts over a period.

* **Test Data:** Sample workout data from multiple timepoints to ensure comparisons are meaningful.

* **Test Steps:**

1. Navigate to the "Workouts" or a similar section displaying workout history.
2. Select a recent workout.

3. Look for a feature (like a direct comparison view or a "Compare to Previous" button) that allows the user to directly compare the selected workout with a past workout.
4. Select a past workout from a list or calendar view for comparison.
5. Verify that the app accurately displays key metrics (distance, calories burned, duration, etc.) side-by-side for both workouts, highlighting any significant differences or improvements.

* **Postconditions:**

* User remains on the workout comparison screen.

* **Expected Result:** The app should enable effective comparison of current and past workouts, providing a clear visualization of progress and performance fluctuations.

* **Severity:** Minor

* **Type of Testing:** Functional Testing

Data - 97

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features

like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Weather Integration

Feature description -

Integrated weather forecasts and conditions allow users to plan outdoor workouts and activities based on current weather conditions and forecasts. Weather integration helps users make informed decisions, stay safe, and optimize their outdoor exercise routines according to weather conditions.

Userstory title -

As a user, I want to view weather forecasts in the app so that I can plan my outdoor workouts accordingly.

Acceptance criteria -

['The app provides current weather conditions and forecasts.', 'Users can view weather details for different locations.', 'Weather data is updated in real-time.', 'The app offers recommendations based on weather conditions.', 'Users can receive weather alerts for extreme conditions.']

Generated Test Cases:

Fitness Tracker App: Weather Integration Test Cases

****Test Case ID:**** WT-001

****Test Case Title:**** Verify that the app displays current weather conditions.

****Test Case Description:**** This test case verifies the app's functionality to display accurate and up-to-date weather conditions for the user's current location.

****Test Suite:**** Weather Integration

****Test Priority:**** High

****Preconditions:****

* User is logged into the app.

* User's location services are enabled.

* Internet connection is available.

Test Data: No test data needed.

Test Steps:

1. Launch the Fitness Tracker app.
2. Navigate to the Weather section.
3. Verify that the app displays current temperature, humidity, and precipitation information.

Postconditions:

* Weather information is displayed correctly.

Expected Result: The app accurately displays the current weather conditions for the user's location.

Severity: Critical

Priority: High

Type of Testing: System Testing, Functional Testing

Test Case Approach: Positive

Test Case ID: WT-002

Test Case Title: Verify that the app allows users to view weather forecasts for different locations.

Test Case Description: This test case verifies the app's functionality to display weather forecasts for multiple locations.

Test Suite: Weather Integration

Test Priority: Medium

****Preconditions:****

- * User is logged into the app.
- * Internet connection is available.

****Test Data:****

- * List of at least three different city names.

****Test Steps:****

1. Launch the Fitness Tracker app.
2. Navigate to the Weather section.
3. Select the "Add Location" option.
4. Enter the name of a different city.
5. Verify that the app displays weather forecasts for the entered city.
6. Repeat steps 3-5 for two more different cities.

****Postconditions:****

- * Forecasts for the added locations are displayed correctly.

****Expected Result:**** The app successfully displays weather forecasts for multiple locations selected by the user.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** System Testing, Functional Testing

****Test Case Approach:**** Positive, Negative (Consider cases where location names are invalid or missing)

****Test Case ID:**** WT-003

****Test Case Title:**** Verify that weather data in the app is updated in real-time.

****Test Case Description:**** This test case verifies the app's ability to update weather data promptly as conditions change.

****Test Suite:**** Weather Integration

****Test Priority:**** High

****Preconditions:****

* User is logged into the app.

* Internet connection is available.

****Test Data:**** No test data needed. Observations will be made during testing.

****Test Steps:****

1. Launch the Fitness Tracker app.
2. Navigate to the Weather section.
3. Note the current temperature and condition displayed.
4. Wait for approximately 15 minutes.
5. Revisit the Weather section and observe the updated temperature and condition information.

****Postconditions:****

* Weather data reflects changes in real-time.

****Expected Result:**** The app updates weather data within a reasonable timeframe, reflecting changes in real-time conditions.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** System Testing, Functional Testing

****Test Case Approach:** Positive**

****(Continue generating 2 more test cases, focusing on "recommendations based on weather conditions" and "weather alerts for extreme conditions" as specified in the acceptance criteria.)****

Data - 98

Project name -

Fitness Tracker App

Project description -

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

Feature name -

Mood Tracking

Feature description -

Users can track their mood, energy levels, and motivation before and after workouts, providing context for their exercise experiences and insights into the impact of physical activity on mental well-being. Mood tracking promotes self-awareness, mindfulness, and emotional regulation in the context of fitness and exercise.

Userstory title -

As a user, I want to track my mood and energy levels before and after workouts so that I can understand the impact of exercise on my mental well-being.

Acceptance criteria -

['Users can log their mood, energy levels, and motivation.', 'The app provides insights into mood and energy trends over time.', 'Users receive recommendations based on their mood and energy data.', 'The app supports journaling for personal reflections on mood and workouts.', 'Users can set goals for improving mood and energy levels.']

Generated Test Cases:

Fitness Tracker App - Mood Tracking Test Cases

****Test Case ID:** FT-MT-001**

****Test Case Title:** Verify that users can log their mood and energy levels before and after workouts.**

****Test Case Description:** This test case verifies the functionality of logging mood and energy levels before and after workouts. It checks if users can select from pre-defined options or enter custom values for each metric.**

****Test Suite:** Mood Tracking**

****Test Priority:** High**

****Preconditions:****

- User is logged into the Fitness Tracker app.
- User has completed a workout session.

****Test Data:** Sample mood and energy level values (e.g., "Happy," "Excited," "Energetic," "Moderate")**

****Test Steps:****

1. Open the Fitness Tracker app and navigate to the workout log.
2. Select a completed workout session.
3. Click on the "Log Mood & Energy" button.

4. Select a mood level from the provided options or enter a custom value.
5. Select an energy level from the provided options or enter a custom value.
6. Click on the "Save" button.

****Postconditions:****

- The logged mood and energy levels are displayed next to the session details.
- The app saves the entered data.

****Expected Result:**** The user successfully logs their mood and energy levels before and after the workout.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case ID:**** FT-MT-002

****Test Case Title:**** Verify that the app provides insights into mood and energy trends over time.

****Test Case Description:**** This test case verifies the app's ability to display insights into the user's mood and energy trends over time, based on their logged data.

****Test Suite:**** Mood Tracking

****Test Priority:**** Medium

****Preconditions:****

- User has logged mood and energy levels for multiple workouts over several days.

****Test Data:**** Logged mood and energy data for at least a week.

****Test Steps:****

1. Open the Fitness Tracker app and navigate to the "Insights" or "Analytics" section.
2. Select the "Mood & Energy" tab.
3. Verify that the app presents a graphical representation of mood and energy trends over the selected timeframe.

****Postconditions:****

- The graph displays the user's logged mood and energy levels for the specified period.

****Expected Result:**** The user can see clear trends in their mood and energy levels, potentially identifying patterns or correlations with work outs.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case ID:**** FT-MT-003

****Test Case Title:**** Verify that users receive personalized recommendations based on their mood and energy data.

****Test Case Description:**** This test case verifies that the app provides relevant recommendations to the user based on their logged mood and energy levels.

****Test Suite:**** Mood Tracking

****Test Priority:**** Medium

****Preconditions:****

- User has logged mood and energy levels consistently for a substantial period.

****Test Data:**** Logged mood and energy data for at least two weeks.

****Test Steps:****

1. Open the Fitness Tracker app and navigate to the "Recommendations" or "Insights" section.
2. View the personalized recommendations based on the user's mood and energy data.

****Postconditions:****

- The recommendations are tailored to the user's logged mood and energy levels.

****Expected Result:**** The app suggests helpful recommendations such as exercises suitable for their current

mood, activities that may boost energy, or mindfulness practices based on their recent mood trends.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

******(Continue to create test cases for the remaining acceptance criteria.)******

Data - 99

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Recipe Creation

Feature description -

Users can create and share their own recipes on the platform, including ingredients, cooking instructions, and optional photos. This feature allows users to showcase their culinary creations and contribute to the platform's recipe database.

Userstory title -

As a user, I want to create and share my own recipes so that I can showcase my culinary creations.

Acceptance criteria -

['Users can input and save ingredients and cooking instructions.', 'Users can upload photos for their recipes.',
"Recipes are saved in the user's profile.", 'Recipes are accessible to other users on the platform.', 'Users receive
a confirmation upon successful recipe submission.']

Generated Test Cases:

Recipe Sharing Platform - Recipe Creation Test Cases

****Test Case ID:**** RCT-001

****Test Case Title:**** Verify that users can input ingredients and cooking instructions for their recipes.

****Test Case Description:**** This test case verifies the functionality of inputting ingredients and cooking instructions for a new recipe. It ensures that the system correctly handles various input types and formats.

****Test Suite:**** Recipe Creation

****Test Priority:**** High

****Preconditions:****

* User is logged into the platform.

* The user is on the recipe creation page.

****Test Data:**** Ingredients list (e.g., "1 cup flour", "2 eggs", "1 teaspoon baking powder"), detailed cooking instructions (e.g., "Preheat oven to 350°F. Combine dry ingredients in a bowl...", "Bake for 20 minutes...")

****Test Steps:****

1. Enter ingredients and their quantities in the designated fields.
2. Input the cooking instructions in a step-by-step format.
3. Verify that the entered data is displayed correctly within the recipe creation form.
4. Save the recipe draft.
5. Open the saved recipe and confirm that the ingredients and instructions are displayed accurately.

****Postconditions:****

* The drafted recipe is saved and accessible for further editing.

****Expected Result:****

The system should save all entered ingredients and instructions without errors, ensuring accurate display within the recipe form and upon saving.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case ID:**** RCT-002

****Test Case Title:**** Verify that users can upload photos for their recipes.

****Test Case Description:**** This test case ensures the functionality of uploading photos to accompany recipes. It verifies successful uploads, error handling for invalid file types, and image display.

****Test Suite:**** Recipe Creation

****Test Priority:**** High

****Preconditions:****

* User is logged into the platform.

* The user is on the recipe creation page.

* A valid image file (e.g., JPG, PNG) is available on the user's device.

****Test Data:****

* A valid image file less than 5 MB in size.

****Test Steps:****

1. Click on the "Upload Photo" button.
2. Select the prepared image file from the device.
3. Verify that the image is uploaded successfully and displays within the recipe creation form.
4. Attempt to upload an invalid file type (e.g., .docx, .pdf).
5. Observe the error message displayed and ensure it informs the user about the invalid file type.

****Postconditions:****

- * The uploaded photo remains visible within the recipe creation form.

****Expected Result:****

- * The valid image file should upload successfully, displaying within the recipe creation form.

- * The system should reject invalid file types and display an appropriate error message.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case ID:** RCT-003**

****Test Case Title:** Verify that saved recipes are accessible to the user within their profile.**

****Test Case Description:** This test case confirms that users can access and manage their previously saved recipes through their profile section.**

****Test Suite:** Recipe Creation**

****Test Priority:** Medium**

****Preconditions:****

- * User is logged into the platform.

- * The user has created and saved at least one recipe.

****Test Data:** Several recipes created by the user.**

****Test Steps:****

1. Navigate to the user's profile page.
2. Locate the "My Recipes" section.
3. Verify that all previously saved recipes are displayed in the user's profile.
4. Select a recipe and confirm its details (title, ingredients, instructions) are accurate.

****Postconditions:****

- * No changes are made to the existing recipes.

****Expected Result:****

All previously saved recipes by the user should be accessible and displayed correctly within their profile section.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case ID:**** RCT-004

****Test Case Title:**** Verify that saved recipes are accessible to other users on the platform.

****Test Case Description:**** This test case ensures that recipes saved by users are visible to other registered users on the platform.

****Test Suite:**** Recipe Creation

****Test Priority:**** Medium

****Preconditions:****

* User A has created a recipe and saved it.

* User B is a registered user on the platform.

****Test Data:**** A recipe created by User A.

****Test Steps:****

1. Log out of User A's account.
2. Log in to User B's account.
3. Navigate to the "Recipes" section of the platform.
4. Verify that User A's recipe is displayed in the search results or browseable categories.
5. Access User A's recipe and confirm its details are accurate.

****Postconditions:****

* User B remains logged into their account.

****Expected Result:****

User B should be able to access and view the recipe created by User A, confirming its visibility to other users.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional Testing**

****Test Case ID:** RCT-005**

****Test Case Title:** Verify that users receive confirmation upon successful recipe submission.**

****Test Case Description:** This test case verifies that the system provides clear confirmation to users after successfully submitting their recipe.**

****Test Suite:** Recipe Creation**

****Test Priority:** Medium**

****Preconditions:****

* User is logged into the platform.

* The user is on the recipe creation page.

****Test Data:** A complete recipe with ingredients, instructions, and an optional photo.**

****Test Steps:****

1. Enter all required recipe details (ingredients, instructions, title).

2. Upload a photo (optional).

3. Click on the "Submit Recipe" button.

4. Observe the response provided by the system after clicking the submit button.

****Postconditions:****

* The recipe is saved and accessible to the user.

****Expected Result:****

The system should display a clear and concise confirmation message to the user, indicating that the recipe has been successfully submitted.

****Severity:** Minor**

****Priority:** Medium**

****Type of Testing:** Functional Testing**

Data - 100

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Recipe Discovery

Feature description -

The platform offers a robust search functionality that allows users to discover new recipes based on keywords, ingredients, cuisine types, dietary preferences, and more. Users can explore a wide variety of recipes to find inspiration for their next meal.

Userstory title -

As a user, I want to search for recipes using keywords and ingredients so that I can find new recipes to try.

Acceptance criteria -

['Users can search for recipes using keywords and ingredients.', 'Search results are relevant and accurately match the search criteria.', 'Users can filter search results by cuisine type, dietary preferences, and other criteria.', 'Recipes in the search results are accessible and detailed.', 'Users can save search results for future

reference.']

Generated Test Cases:

Recipe Sharing Platform - Recipe Discovery Test Cases

Here are five detailed test cases for the "Recipe Discovery" feature based on the provided user story and acceptance criteria:

Test Case 1

* **Test Case ID:** RC-001

* **Test Case Title:** Verify that users can search for recipes using keywords.

* **Test Case Description:** This test case aims to validate the functionality of searching for recipes using text keywords. It will verify that the search results are relevant to the entered keywords and display applicable recipes.

* **Test Suite:** User Interface - Recipe Discovery

* **Test Priority:** High

* **Preconditions:**

- * User is logged in to the platform.

- * The platform has a database of at least 50 recipes with diverse titles and descriptions.

* **Test Data:** Various relevant keywords related to popular recipes (e.g., "chocolate cake", "vegetarian pasta", "chicken stir-fry").

* **Test Steps:**

1. Navigate to the recipe search page.
2. Enter a relevant keyword (e.g., "chocolate cake") in the search bar.
3. Click the "Search" button.
4. Verify that search results are displayed.

5. Check if the displayed recipes contain the entered keyword in their title or description.

* **Postconditions:**

* Clear the search bar.

* **Expected Result:** The search results should return a list of recipes relevant to the entered keyword.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

Test Case 2

* **Test Case ID:** RC-002

* **Test Case Title:** Verify that users can search for recipes using ingredients.

* **Test Case Description:** This test case validates the functionality of searching for recipes using specific ingredients. It ensures that the search results accurately reflect recipes containing the entered ingredients.

* **Test Suite:** User Interface - Recipe Discovery

* **Test Priority:** High

* **Preconditions:**

* User is logged in to the platform.

* The platform has a database of at least 50 recipes with various ingredient listings.

* **Test Data:** A list of common ingredients (e.g., "chicken", "tomatoes", "garlic").

* **Test Steps:**

1. Navigate to the recipe search page.
2. Enter an ingredient (e.g., "chicken") in the search bar.
3. Click the "Search" button.
4. Verify that search results are displayed.
5. Check if each recipe in the results contains the entered ingredient.

* **Postconditions:**

* Clear the search bar.

* **Expected Result:** The search results should return recipes that specifically include the entered ingredient.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

Test Case 3

* **Test Case ID:** RC-003

* **Test Case Title:** Verify that users can filter search results by cuisine type.

* **Test Case Description:** This test case verifies the functionality of filtering recipe search results by different cuisine types.

* **Test Suite:** User Interface - Recipe Discovery

* **Test Priority:** Medium

* **Preconditions:**

- * User is logged in to the platform.

- * The platform has recipe data classified under various cuisine types.

* **Test Data:** A selection of different cuisine types (e.g., "Italian", "Mexican", "Indian").

* **Test Steps:**

1. Navigate to the recipe search page.
2. Conduct a broad keyword search (e.g., "chicken").
3. Filter the search results by a specific cuisine type (e.g., "Italian").
4. Verify that the filtered results only display recipes categorized under the selected cuisine type.

* **Postconditions:**

- * Clear all filters.

* **Expected Result:** The results should be accurately filtered based on the selected cuisine type.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

Test Case 4

* **Test Case ID:** RC-004

* **Test Case Title:** Verify that users can filter search results by dietary preferences.

* **Test Case Description:** This test case verifies the functionality of filtering search results based on dietary preferences.

* **Test Suite:** User Interface - Recipe Discovery

* **Test Priority:** Medium

* **Preconditions:**

- * User is logged in to the platform.

- * The platform has recipes tagged with various dietary preferences.

* **Test Data:** A selection of dietary preferences (e.g., "Vegetarian", "Vegan", "Gluten-Free").

* **Test Steps:**

1. Navigate to the recipe search page.
2. Conduct a broad keyword search (e.g., "salad").
3. Filter the search results by a specific dietary preference (e.g., "Vegan").
4. Verify that the filtered results only display recipes tagged as vegan.

* **Postconditions:**

- * Clear all filters.

* **Expected Result:** The results should be accurately filtered based on the selected dietary preference.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

****Test Case 5****

*** **Test Case ID:** RC-005**

*** **Test Case Title:**** Verify that users can save search results for future reference.

*** **Test Case Description:**** This test case validates the functionality of saving search results for later access.

*** **Test Suite:**** User Features - Search History

*** **Test Priority:**** Medium

*** **Preconditions:****

- * User is logged in to the platform.

- * The platform has a search history functionality.

*** **Test Data:**** Keywords or ingredients used for a specific recipe search.

*** **Test Steps:****

1. Navigate to the recipe search page.
2. Conduct a search using specific keywords or ingredients.
3. Locate the "Save Search" button or option.
4. Click "Save Search" and provide a name for the saved search.
5. Verify that the saved search appears in the user's saved searches list (or search history).

*** **Postconditions:****

- * Retrieve and verify the saved search from the user's saved searches list.

*** **Expected Result:****

- * The saved search should be correctly named and displayed in the user's saved searches.

*** **Severity:**** Major

*** **Priority:**** Medium

*** **Type of Testing:**** Functional Testing

These test cases cover several aspects of the "Recipe Discovery" feature and provide a starting point for thoroughly testing the functionality.

Data - 101

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

User Profiles

Feature description -

Each user has a personalized profile where they can showcase their favorite recipes, cooking preferences, dietary restrictions, and culinary expertise. User profiles provide a sense of community and allow users to connect with like-minded individuals.

Userstory title -

As a user, I want to have a personalized profile so that I can showcase my favorite recipes and connect with

others.

Acceptance criteria -

['Users can set up and customize their profiles.', 'Profiles can include favorite recipes, cooking preferences, and dietary restrictions.', 'Users can connect with others through profile interactions.', 'Profiles are accessible to other users on the platform.', 'Users can update their profiles at any time.']

Generated Test Cases:

Test Cases for User Profiles Feature

****Test Case ID:** TC_UP01**

****Test Case Title:** Verify that users can set up and customize their profiles.**

****Test Case Description:** This test case verifies the user's ability to create a new profile, add personal information, and customize their profile settings.**

****Test Suite:** User Profiles**

****Test Priority:** High**

****Preconditions:****

- * User account creation is functional.
- * Application is accessible and logged out state.

****Test Data:****

- * Valid username and password for user creation.
- * Sample personal information (name, bio, location, profile picture).
- * Sample cooking preferences (cuisine types, cooking styles).
- * Sample dietary restrictions (vegetarian, gluten-free, etc.).

****Test Steps:****

1. Navigate to the application's registration page.
2. Create a new user account with valid credentials.
3. Log in to the newly created account.
4. Access the user profile settings page.
5. Fill in personal information fields like name, bio, location, and upload a profile picture.
6. Select preferred cooking cuisines and styles.
7. Input dietary restrictions.
8. Save changes to the profile.

****Postconditions:****

- * User profile is successfully created and saved.
- * Profile information is displayed correctly on the user's profile page.

****Expected Result:**** The user can successfully create a profile, add personal information, and customize their settings.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional, User Interface

****Test Case Approach:**** Positive

****Test Case ID:**** TC_UP02

****Test Case Title:**** Verify that users can connect with others through profile interactions.

****Test Case Description:**** This test case verifies the functionality of connecting with other users through profile interactions like following, liking, and commenting.

****Test Suite:**** User Profiles

****Test Priority:**** Medium

****Preconditions:****

- * Two user accounts are created and logged in.

****Test Data:****

- * A sample recipe or post created by one user.

****Test Steps:****

1. Navigate to the profile page of the other user.
2. Click the "Follow" button to follow that user.
3. Visit the user's creation (recipe or post).
4. Click the "Like" button on the user's creation.
5. Comment on the user's creation with a valid message.

****Postconditions:****

- * The follow request is successfully sent and the user is now following the target user.
- * The "Like" is added to the user's creation.
- * The comment is successfully posted on the user's creation.

****Expected Result:**** Users can successfully connect with others through follow actions, like buttons, and comments.

****Severity:**** Major

****Priority:** Medium**

****Type of Testing:** Functional, User Interface**

****Test Case Approach:** Positive**

****Test Case ID:** TC_UP03**

****Test Case Title:** Verify that profile changes are reflected after saving.**

****Test Case Description:** This test case ensures that any changes made to a user's profile are accurately reflected after saving the changes.**

****Test Suite:** User Profiles**

****Test Priority:** High**

****Preconditions:****

* A user profile with existing information is created and logged in.

****Test Data:****

* Different profile picture.

* Modified bio information.

* Evolved cooking preferences.

****Test Steps:****

1. Access the user profile settings page.
2. Upload a new profile picture.
3. Edit the bio information and save changes.

4. Modify the selected cooking preferences and save changes.

****Postconditions:****

- * The new profile picture is visible on the user's profile page.
- * The updated bio information is displayed correctly.
- * The modified cooking preferences are reflected.

****Expected Result:**** Any changes made to the profile are successfully saved and reflected on the user's profile page.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional, User Interface

****Test Case Approach:**** Positive, Edge Case

****Test Case ID:**** TC_UP04

****Test Case Title:**** Verify that user profiles are accessible to other users on the platform.

****Test Case Description:**** This test case tests the visibility and accessibility of user profiles to other registered users.

****Test Suite:**** User Profiles

****Test Priority:**** Medium

****Preconditions:****

* Two user accounts are successfully created and logged in.

****Test Data:****

* Publicly viewable recipes or posts by user 1.

****Test Steps:****

1. Login as User 1.
2. Create a publicly accessible recipe or post.
3. Logout of User 1's account.
4. Login as User 2.
5. Navigate to User 1's profile page using the navigation or search functionality.

****Postconditions:****

- * User 2 can successfully access User 1's profile page.
- * User 2 can view User 1's profile information (publicly available data).
- * User 2 can view User 1's publicly accessible recipes or posts.

****Expected Result:**** User profiles are accessible to other users on the platform, allowing for browsing and interaction.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional, User Interface

****Test Case Approach:**** Positive

****Test Case ID:** TC_UP05**

****Test Case Title:** Verify that users can update their profiles at any time.**

****Test Case Description:** This test case ensures that users have the ability to modify their profile information at any time after initial creation.**

****Test Suite:** User Profiles**

****Test Priority:** Medium**

****Preconditions:****

* A user profile is created and logged in.

****Test Data:****

* Temporarily username "TemporaryEmail001@example.com"

* Different profile picture.

* Different bio information.

* Evolved cooking preferences.

****Test Steps:****

1. Access the user profile settings page.
2. Change the password to "NewStrongPassword"
3. Attempt to revert the password change to "TemporaryEmail001@example.com"
4. Edit the bio information and save changes.

****Postconditions:****

- * The profile information is successfully updated with the changes.
- * The changes are reflected on the user's profile page.
- * The password change is reverted back to "NewStrongPassword" and the temporary one is no longer able to be used.

****Expected Result:**** Users can make changes to their profile information at any time and those changes are saved and displayed correctly.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional, User Interface

****Test Case Approach:**** Positive, Edge Case

Data - 102

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Rating and Reviews

Feature description -

Users can rate and review recipes they've tried, sharing their feedback, modifications, and tips with the community. Ratings and reviews help other users make informed decisions about which recipes to try and provide valuable feedback to recipe creators.

Userstory title -

As a user, I want to rate and review recipes so that I can share my experience and help others decide which recipes to try.

Acceptance criteria -

['Users can rate recipes on a scale (e.g., 1 to 5 stars).', 'Users can write and submit detailed reviews.', 'Ratings and reviews are visible to other users.', 'Users can edit or delete their ratings and reviews.', 'Recipe creators can respond to reviews.']

Generated Test Cases:

Recipe Sharing Platform Test Cases - Rating and Reviews Feature

****Test Case ID:**** RC-001

****Test Case Title:**** Verify that users can rate recipes on a scale of 1 to 5 stars.

****Test Case Description:**** This test case aims to confirm that users can successfully rate recipes using the provided star rating system (1 to 5 stars) and that the ratings are correctly displayed.

****Test Suite:**** Recipe Features

****Test Priority:**** High

****Preconditions:****

- * User is logged in to the platform.
- * A recipe is available for rating.
- * The rating functionality is accessible on the recipe page.

****Test Data:**** No test data needed

****Test Steps:****

1. Navigate to the recipe page.
2. Click on the star rating (1 to 5 stars) corresponding to the desired rating.
3. Verify that the rating is reflected on the recipe page and that the corresponding number of stars is highlighted.

****Postconditions:****

- * The user's rating for the recipe is saved.

****Expected Result:**** The recipe should display the selected rating accurately, and the user's rating should be recorded in the system.

****Test Case ID:**** RC-002

****Test Case Title:**** Verify that users can submit detailed reviews for recipes.

****Test Case Description:**** This test case verifies the user's ability to write and submit reviews, including text input and character limits.

****Test Suite:**** Recipe Features

****Test Priority:**** High

****Preconditions:****

- * User is logged in to the platform.

- * A recipe is available to be reviewed.

****Test Data:****

- * A sample review text exceeding the designated character limit (if applicable).

- * A sample review text within the designated character limit.

****Test Steps:****

1. Navigate to the recipe page.
2. Click the "Write a review" button.
3. Input the sample review text within the designated character limit.
4. Repeat step 3 using the sample review text exceeding the limit (if applicable).
5. Submit both reviews.

****Postconditions:****

- * The review within the character limit is successfully submitted and displayed on the recipe page.

- *

A message indicating a character limit error is shown when attempting to submit the exceeding review.

****Expected Result:**** The system should accept valid reviews within the character limit and display them accordingly. It should also provide appropriate error messaging for exceeding the character limit.

****Test Case ID:**** RC-003

****Test Case Title:**** Verify that ratings and reviews are visible to other users.

****Test Case Description:**** This test case ensures that ratings and reviews submitted by users are displayed on the recipe page for other users to see.

****Test Suite:**** Recipe Features

****Test Priority:**** High

****Preconditions:****

* User 1 has logged in and successfully submitted a rating and a review for a recipe.

* User 2 is logged in (different account than User 1).

****Test Data:****

* The rating and review submitted by User 1

****Test Steps:****

1. Have User 2 navigate to the recipe page.
2. Verify that the rating and review submitted by User 1 are displayed on the recipe page.

****Postconditions:****

* The visibility of the submitted rating and review persists.

****Expected Result:**** The recipe page should display the rating and review submitted by User 1, accessible to User 2.

****Test Case ID:**** RC-004

****Test Case Title:**** Verify that users can edit or delete their own ratings and reviews.

****Test Case Description:**** This test case checks if users can modify or remove their previously submitted ratings and reviews.

****Test Suite:**** Recipe Features

****Test Priority:**** Medium

****Preconditions:****

* User 1 is logged in.

* User 1 has previously submitted a rating and a review for a recipe.

****Test Data:****

* The original rating and review text submitted by User 1.

* Modified review text.

****Test Steps:****

1. Have User 1 navigate to the recipe page where the rating and review were submitted.
2. Locate the "Edit" or "Delete" option associated with the submitted rating or review.
3. Click on the "Edit" option and modify the review text with the new text.
4. Click "Save Changes."
5. Verify that the review text has been updated accordingly.
6. Repeat steps 2-5 for deleting the rating and review.

****Postconditions:****

* The rating and review can be edited or deleted successfully.

****Expected Result:**** After editing, the reviewed text should reflect the changes made by User 1. After deletion, the rating and review should no longer be visible on the recipe page.

****Test Case ID:** RC-005**

****Test Case Title:** Verify that recipe creators can respond to user reviews.**

****Test Case Description:** This test case confirms whether authors of recipes can interact with the reviews submitted by users.**

****Test Suite:** Recipe Features**

****Test Priority:** Medium**

****Preconditions:****

* User 1 (recipe creator) has logged in and created a recipe.

* User 2 has left a review for the recipe.

****Test Data:****

* A sample review from User 2.

****Test Steps:****

1. User 1 accesses the recipe page where the review was left.
2. Locate the review posted by User 2.
3. Click on the "Respond" or "Reply" button associated with the review.
4. Input a sample response message to User 2's review.
5. Click "Send" or "Post" to submit the response.

****Postconditions:****

* The response message is displayed under the user review.

****Expected Result:**** User 1 should successfully be able to reply to User 2's review, creating a dialogue between the recipe creator and the user.

Data - 103

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Cooking Tips and Techniques

Feature description -

The platform includes a section dedicated to cooking tips, techniques, and tutorials to help users improve their culinary skills. Users can learn new cooking methods, knife skills, and culinary hacks to enhance their cooking experience.

Userstory title -

As a user, I want to access cooking tips and techniques so that I can improve my culinary skills.

Acceptance criteria -

['Users can browse and search for cooking tips and techniques.', 'Tips and techniques include detailed instructions and visuals.', 'Users can save their favorite tips and techniques.', 'Content is regularly updated with

new tips and techniques.', 'Users can submit their own tips and techniques.']

Generated Test Cases:

Recipe Sharing Platform - Cooking Tips and Techniques Test Cases

****Test Case ID 1****

****Test Case Title:**** Verify that users can browse cooking tips and techniques.

****Test Case Description:**** This test case verifies the navigation and display of cooking tips and techniques on the platform.

****Test Suite:**** Feature Testing

****Test Priority:**** High

****Preconditions:****

- * User is logged in or browsing as a guest.
- * The platform is functioning correctly.

****Test Data:**** No test data needed

****Test Steps:****

1. Navigate to the "Cooking Tips & Techniques" section of the platform.
2. Verify that the section displays a list of available tips and techniques.
3. Verify that the listed tips and techniques have clear titles and brief summaries.
4. Click on a tip or technique title to access its detailed information page.
5. Verify that the detailed page includes complete instructions, visuals (e.g., images, videos), and relevant categories.

****Postconditions:****

- * User remains on the platform

****Expected Result:****

All tips and techniques are accessible through the designated section, with clear and detailed information.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing, Usability Testing

****Test Case ID 2****

****Test Case Title:**** Verify that users can search for cooking tips and techniques.

****Test Case Description:**** This test case verifies the functionality of the search bar for finding specific tips and techniques.

****Test Suite:**** Feature Testing

****Test Priority:**** High

****Preconditions:****

* User is logged in or browsing as a guest.

* The platform is functioning correctly.

****Test Data:****

* Search terms: "knife skills", "baking techniques", "recipe ideas"

****Test Steps:****

1. Navigate to the "Cooking Tips & Techniques" section.
2. Enter various search terms related to cooking tips into the search bar.
3. Click on the search button or press enter.
4. Verify that relevant search results are displayed.
5. Click on a search result to verify the content matches the search term.

****Postconditions:****

* User remains on the platform

****Expected Result:****

Search bar accurately retrieves relevant tips and techniques based on the provided search terms.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing, User Interface Testing

****Test Case ID 3****

****Test Case Title:**** Verify that users can save their favorite cooking tips and techniques.

****Test Case Description:**** This test case tests the functionality of the "favorite" feature for bookmarking preferred tips and techniques.

****Test Suite:**** Feature Testing

****Test Priority:**** Medium

****Preconditions:****

- * User is logged in.
- * The platform is functioning correctly.

****Test Data:****

- * Select 3-5 different tips or techniques

****Test Steps:****

1. Navigate to the "Cooking Tips & Techniques" section.
2. Browse through available tips and techniques.
3. Click on the "Save" or "Favorite" button on each selected tip or technique.
4. Verify that the respective tip or technique is now saved within the user's "Favorites" section.
5. Access the "Favorites" section and verify that the saved tips and techniques are displayed correctly.

****Postconditions:****

- * User remains logged in

****Expected Result:****

Users can successfully save favorite tips and techniques for easy access and reference.

****Severity:**** Low

****Priority:**** Medium

****Type of Testing:**** Functional Testing, User Interface Testing

****Test Case ID 4****

****Test Case Title:**** Verify that content on cooking tips and techniques is regularly updated.

****Test Case Description:**** This test case evaluates the frequency and quality of new content added to the cooking tips and techniques section.

****Test Suite:**** Feature Testing

****Test Priority:**** Medium

****Preconditions:****

- * Platform has a history of posting new content.
- * User is logged in or browsing as a guest.

****Test Data:****

- * Dates of previous content additions
- * A variety of recent cooking trends or techniques.

****Test Steps:****

1. Access the "Cooking Tips & Techniques" section on the platform.
2. Observe the recent content and note the posting dates.
3. Research current cooking trends and techniques relevant to the platform's audience.
4. Compare recently added content to the researched trends and verify relevance.

****Postconditions:****

- * The user is informed about new content

****Expected Result:****

The platform consistently updates its cooking tips and techniques content with fresh and relevant information, reflecting current trends and culinary advancements.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Performance Testing

****Test Case ID 5****

****Test Case Title:**** Verify that users can submit their own cooking tips and techniques.

****Test Case Description:**** This test case tests the functionality for users to contribute their own cooking tips and techniques to the platform.

****Test Suite:**** Feature Testing

****Test Priority:**** Medium

****Preconditions:****

- * User is logged in.
- * The platform is functioning correctly.

****Test Data:****

- * A new original cooking tip or technique with clear instructions, and visuals (optional)

****Test Steps:****

1. Navigate to the "Cooking Tips & Techniques" section.

2. Locate the "Submit Your Tip" or "Contribute" button/link.
3. Click the button and fill out the submission form with the new tip or technique details, including:
 - * Title
 - * Description
 - * Instructions
 - * Visuals (if applicable)
4. Verify that the submission process prompts for the necessary information.
5. Click "Submit" and check for a confirmation message.
6. After moderation (if applicable), verify that the submitted tip or technique appears in the platform's "Cooking Tips & Techniques" section.

****Postconditions:****

- * User remains logged in

****Expected Result:****

Users can submit their own well-formatted and relevant cooking tips and techniques that are then reviewed and potentially published.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, User Interface Testing

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Meal Planning

Feature description -

Users can create meal plans by selecting recipes from the platform's database and organizing them into daily or weekly menus. Meal planning features help users streamline their grocery shopping, save time, and maintain a balanced diet.

Userstory title -

As a user, I want to create meal plans so that I can organize my meals for the week and streamline my grocery shopping.

Acceptance criteria -

['Users can add recipes to daily or weekly meal plans.', 'Meal plans can be saved and edited at any time.', 'Users can view nutritional information for the entire meal plan.', 'Meal plans are linked to grocery list generation.', 'Users receive reminders for meal preparation and cooking.']

Generated Test Cases:

Recipe Sharing Platform - Meal Planning Test Cases

Here are 5 detailed test cases for the "Meal Planning" feature of the Recipe Sharing Platform, adhering to the provided template:

****Test Case ID:** RC-MP-01**

****Test Case Title:** Verify that users can add recipes to daily or weekly meal plans.**

****Test Case Description:** This test case will verify the functionality of adding recipes to both daily and weekly meal plans, ensuring correct display and organization.**

****Test Suite:** User Story: Meal Planning**

****Test Priority:** High**

****Preconditions:****

- * A user account is logged in.
- * At least two recipes are available on the platform.

****Test Data:****

- * Two recipes with different meal types (e.g., breakfast and dinner).

****Test Steps:****

1. Navigate to the "Meal Planning" section of the platform.
2. Select "Create New Meal Plan" and choose either "Daily" or "Weekly" format.
3. Search for one of the pre-selected recipes and click "Add to Meal Plan."
4. Repeat step 3 with the second recipe.
5. Verify that both recipes appear correctly in the selected meal plan, grouped chronologically or by day if applicable.

****Postconditions:****

* The meal plan is saved.

****Expected Result:****

Both recipes are added to the chosen meal plan and displayed correctly.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** RC-MP-02**

****Test Case Title:** Verify that meal plans can be saved and edited at any time.**

****Test Case Description:** This test case will ensure the user can save their meal plan and make changes to it later.**

****Test Suite:** User Story: Meal Planning**

****Test Priority:** High**

****Preconditions:****

* A user account is logged in.

* A meal plan has been created (as in Test Case RC-MP-01).

****Test Data:****

* A change to an existing meal plan (e.g., swapping one recipe for another).

****Test Steps:****

1. Open the created meal plan.
2. Make a modification to the plan (e.g., replace a recipe).
3. Save the edited meal plan.
4. Open the saved meal plan again and verify the modification is reflected.

****Postconditions:****

* The edited meal plan is saved.

****Expected Result:****

The modifications made to the meal plan are successfully saved and can be viewed upon reopening.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** RC-MP-03**

****Test Case Title:** Verify that users can view nutritional information for the entire meal plan.**

****Test Case Description:** This test case will check if the platform correctly displays aggregated nutritional information for an entire meal plan.**

****Test Suite:**** User Story: Meal Planning Test Suite

****Test Priority:**** Medium

****Preconditions:****

- * A user account is logged in.
- * A meal plan with at least three recipes has been created.

****Test Data:****

- * Recipes with diverse nutritional content (varying in calories, protein, fat, carbs).

****Test Steps:****

1. Open the created meal plan.
2. Locate the "Nutritional Information" section within the meal plan view.
3. Verify that the total calories, protein, fat, and carbohydrates for the entire meal plan are displayed accurately, calculated from the individual recipe data.

****Postconditions:****

- * The meal plan is displayed with nutritional breakdown.

****Expected Result:****

The platform correctly aggregates and displays total nutritional information for the selected meal plan based on the recipes.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** RC-MP-04**

****Test Case Title:** Verify that meal plans are linked to grocery list generation.**

****Test Case Description:** This test case will confirm the integration between meal planning and grocery list generation, ensuring accurate ingredient gathering.**

****Test Suite:** User Story: Meal Planning Test Suite**

****Test Priority:** High**

****Preconditions:****

- * A user account is logged in.
- * A meal plan with distinct ingredients across recipes has been created.

****Test Data:****

- * Recipes with specific ingredients (e.g., onions, carrots, potatoes) appearing multiple times or uniquely.

****Test Steps:****

1. Open the created meal plan.
2. Locate the "Generate Grocery List" button or link within the meal plan view.

3. Click the button and review the generated grocery list.
4. Verify that the list includes all unique ingredients from the meal plan recipes, grouped logically by category if applicable.
5. Confirm that ingredients appearing multiple times within the plan are listed accordingly.

****Postconditions:****

- * A grocery list is generated based on the selected meal plan.

****Expected Result:****

The platform accurately generates a comprehensive grocery list containing all required ingredients from the meal plan, considering quantity and grouping for organization.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** RC-MP-05**

****Test Case Title:** Verify that users receive reminders for meal preparation and cooking.**

****Test Case Description:** This test case will assess the functionality of meal preparation and cooking reminders, ensuring timely notifications.**

****Test Suite:** User Story: Meal Planning Test Suite**

****Test Priority:** Medium**

****Preconditions:****

- * A user account is logged in.
- * A meal plan with scheduled meals has been created.
- * User's platform settings allow for notification alerts.

****Test Data:****

- * Specific meal times (e.g., breakfast, lunch, dinner) within the meal plan.

****Test Steps:****

1. Select a meal plan with scheduled meals and enable reminder notifications.
2. Wait for the scheduled time of a meal (e.g., lunch).
3. Verify that a notification is received on the user's device (push notification, email, etc.) prompting about the meal.
4. Adjust the notification settings and test again to ensure reminders are properly disabled or changed according to user preferences.

****Postconditions:****

- * User receives the specified reminder notifications based on the configured settings.

****Expected Result:****

The platform sends timely reminders for meal preparation and cooking according to the user's settings and the meal plan schedule.

****Severity:** Major**

****Priority:**** Medium

****Type of Testing:**** Functionality & Non-Functional Testing

Data - 105

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Shopping List Integration

Feature description -

Users can generate shopping lists based on the ingredients required for selected recipes, making it easy to gather all the necessary ingredients for meal preparation. Shopping list integration simplifies the grocery shopping process and reduces food waste.

Userstory title -

As a user, I want to generate a shopping list from my selected recipes so that I can easily purchase all the necessary ingredients.

Acceptance criteria -

['Users can generate shopping lists from selected recipes.', 'The shopping list includes all necessary ingredients

with quantities.', 'Users can edit the shopping list to add or remove items.', 'The shopping list can be saved and accessed later.', 'Users can mark items as purchased or not needed.']

Generated Test Cases:

Recipe Sharing Platform: Shopping List Integration Test Cases

****Test Case ID:**** SL-01

****Test Case Title:**** Verify that users can generate a shopping list from selected recipes

****Test Case Description:**** This test case verifies the functionality of generating a shopping list from a set of selected recipes. It ensures that all required ingredients with their respective quantities are included in the generated list.

****Test Suite:**** Shopping List Feature

****Test Priority:**** High

****Preconditions:****

- * User is logged into the platform.
- * At least three recipes with distinct ingredients are saved in the user's account.

****Test Data:****

- * Three selected recipes with various ingredients and quantities.

****Test Steps:****

1. Navigate to the user's recipe list or dashboard.
2. Select three recipes with differing ingredients.
3. Click the "Generate Shopping List" button or similar functionality.
4. Review the generated shopping list.

5. Verify that all selected recipes' ingredients are listed in the shopping list.
6. Ensure that the quantity of each ingredient matches the recipe specifications.

****Postconditions:****

* Shopping list is displayed to the user.

****Expected Result:****

A comprehensive shopping list including all ingredients from the selected recipes, with accurate quantities.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** SL-02**

****Test Case Title:** Verify that users can edit the shopping list**

****Test Case Description:**** This test case checks the functionality of adding, removing, and modifying items in the generated shopping list. It verifies that users can customize their shopping list based on their needs.

****Test Suite:** Shopping List Feature**

****Test Priority:** High**

****Preconditions:****

* User has generated a shopping list from selected recipes.

****Test Data:****

* Items from the generated shopping list (ingredients).

****Test Steps:****

1. Access the generated shopping list.
2. Add an additional ingredient manually using the "Add Item" function.
3. Remove an existing item from the shopping list using the "Remove Item" function.
4. Edit the quantity of an existing item using the quantity adjustment feature.

****Postconditions:****

* Shopping list is modified according to the user's actions.

****Expected Result:****

Successful addition, removal, and modification of items within the shopping list.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** SL-03

****Test Case Title:**** Verify that users can save and access the shopping list later

****Test Case Description:**** This test case verifies the functionality of saving the generated shopping list for future use. It confirms that users can retrieve and access the saved list at a later time.

****Test Suite:**** Shopping List Feature

****Test Priority:**** High

****Preconditions:****

* User has generated a shopping list.

****Test Data:****

* Items already present in the generated shopping list.

****Test Steps:****

1. Save the generated shopping list.
2. Close the platform and reopen it at a later time.
3. Access the saved shopping list from the user's profile or shopping list section.
4. Verify that all saved items and quantities are displayed in the retrieved list.

****Postconditions:****

* Shopping list is saved and accessible to the user.

****Expected Result:****

The saved shopping list is retrieved accurately with all original items and quantities intact.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing, Data Persistence Testing

****Test Case Approach:** Positive**

****Test Case ID:** SL-04**

****Test Case Title:** Verify that users can mark items as purchased or not needed**

****Test Case Description:** This test case verifies the functionality of marking items in the shopping list as purchased or marked as no longer needed.**

****Test Suite:** Shopping List Feature**

****Test Priority:** Medium**

****Preconditions:****

* User has generated a shopping list with multiple items.

****Test Data:****

* In a selection of the shopping list items

****Test Steps:****

1. Navigate to the shopping list.
2. Mark at least three items as "Purchased" via a checkmark or similar functionality.
3. Mark at least two items as "Not Needed" via a remove icon or similar functionality.

****Postconditions:****

* The marked items visually reflect their status in the shopping list.

****Expected Result:****

Marking items as purchased or not needed updates their status accordingly in the shopping list.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** SL-05

****Test Case Title:**** Verify that the shopping list handles duplicate items gracefully

****Test Case Description:**** This test case checks if the shopping list software handles duplicate item entries correctly.

****Test Suite:**** Shopping List Feature

****Test Priority:**** Medium

****Preconditions:****

* User has generated a shopping list.

****Test Data:****

* Select two recipes that share the same ingredient with different quantities

****Test Steps:****

1. Select the two recipes that share the ingredient.
2. Generate the shopping list.
3. Verify that the duplicated ingredient appears only once in the list.
4. Verify that the total quantity of the duplicated ingredient reflects the combined quantity from both recipes.

****Postconditions:****

- * The shopping list accurately combines quantities of duplicated ingredients.

****Expected Result:****

The shopping list combines quantities of duplicate ingredients without creating redundant entries and displays the total quantity correctly.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

This set of test cases provides a starting point for thoroughly testing the Shopping List Integration feature of your Recipe Sharing Platform. Remember to tailor these cases further to include edge cases, negative

scenarios, and specific platform requirements for comprehensive testing.

Data - 106

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Nutritional Information

Feature description -

Recipes include detailed nutritional information such as calories, macronutrients, vitamins, and minerals, helping users make informed decisions about their dietary intake. Nutritional information allows users to track their calorie and nutrient intake and make adjustments to meet their health goals.

Userstory title -

As a user, I want to view nutritional information for recipes so that I can make informed dietary choices.

Acceptance criteria -

['Nutritional information is provided for each recipe.', 'Information includes calories, macronutrients, and other key nutrients.', 'Users can filter recipes based on nutritional information.', 'Nutritional information is accurate and up-to-date.', 'Users can view nutritional information in both summary and detailed formats.']

Generated Test Cases:

Recipe Sharing Platform - Nutritional Information Test Cases

****User Story:**** As a user, I want to view nutritional information for recipes so that I can make informed dietary choices.

****Test Case ID:**** TC_NUTRITION_001

****Test Case Title:**** Verify that detailed nutritional information is provided for each recipe

****Test Case Description:**** This test case verifies that the platform displays detailed nutritional information including calories, macronutrients (protein, carbohydrates, fats), and other key nutrients for each recipe.

****Test Suite:**** Recipe Detail Page

****Test Priority:**** High

****Preconditions:****

* A Recipe with nutritional information is added to the platform.

* User is logged in to the platform.

****Test Data:**** A recipe with complete nutritional details (calories, macros, vitamins, minerals).

****Test Steps:****

1. Navigate to the recipe detail page of the selected recipe.
2. Locate the "Nutritional Information" section.
3. Verify that calories, protein, carbohydrates, and fat content are displayed.
4. Verify that additional nutrients (e.g., fiber, sugar, vitamins, minerals) are listed.
5. Check if the nutritional information is presented in a clear and readable format.

****Postconditions:****

* Close the recipe detail page.

****Expected Result:**** All specified nutritional information is accurately displayed for the chosen recipe.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case ID:** TC_NUTRITION_002**

****Test Case Title:** Verify that users can filter recipes based on nutritional information**

****Test Case Description:** This test case verifies the functionality of filtering recipes based on nutritional criteria, including calorie range, macronutrient composition, and specific nutrient levels.**

****Test Suite:** Recipe Search and Browse**

****Test Priority:** High**

****Preconditions:****

* Multiple recipes with varying nutritional information are available on the platform.

* User is logged in to the platform.

****Test Data:** A set of recipes with diverse nutritional values.**

****Test Steps:****

1. Access the recipe search and browse page.
2. Select a filter option, such as "Calories" and set a range (e.g., 200-500 calories).
3. Verify that only recipes within the specified calorie range are displayed.
4. Repeat steps 2-3 using other nutritional filters (e.g., "Protein," "Fat," specific vitamins or minerals).
5. Ensure that filtering based on multiple criteria works as expected.

****Postconditions:****

* Reset all filters.

****Expected Result:** The search and browse results accurately reflect the applied nutritional filters.**

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case ID:** TC_NUTRITION_003**

****Test Case Title:** Verify that nutritional information is accurate and up-to-date**

****Test Case Description:** This test case verifies the accuracy and timeliness of the nutritional data displayed for recipes.**

****Test Suite:** Recipe Detail Page**

****Test Priority:** High**

****Preconditions:****

* Access to a trusted source for nutritional information (e.g., USDA database).

****Test Data:** Recipe with known nutritional facts; comparison data from a reputable source.**

****Test Steps:****

1. Choose a recipe with specific nutritional values (e.g., calories, macros, vitamins).
2. Compare the nutritional information displayed on the recipe detail page with the data from the trusted source.
3. Verify the accuracy of all values, including differences in unit measurements.
4. Conduct a periodic review of commonly used recipes to ensure that nutritional information remains updated.

****Postconditions:****

* Document any discrepancies found.

****Expected Result:** The displayed nutritional information is accurate and consistent with reputable sources.**

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case ID:** TC_NUTRITION_004**

****Test Case Title:** Verify user can view nutritional information in summary and detailed formats**

****Test Case Description:** This test case verifies that users can switch between a condensed summary view and a more detailed breakdown of nutritional information for a recipe.**

****Test Suite:** Recipe Detail Page**

****Test Priority:** Medium**

****Preconditions:****

* A recipe with detailed nutritional information is added to the platform.

* User is logged in to the platform.

****Test Data:** Detailed nutritional information for a recipe.**

****Test Steps:****

1. Navigate to the recipe detail page of the selected recipe.
2. Locate and select an option to switch between "Summary" and "Detailed" nutritional information views.
3. Verify that the displayed information changes accordingly.
4. Confirm that the "Summary" view provides concise key nutritional facts, while the "Detailed" view presents all nutritional values with specific breakdowns.

****Postconditions:** Switch back to the preferred view.**

****Expected Result:** Users can seamlessly toggle between summary and detailed nutritional information views.**

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional Testing**

****Test Case ID:** TC_NUTRITION_005**

****Test Case Title:** Verify that no nutritional information is displayed for recipes without data**

****Test Case Description:** This test case verifies that recipes lacking nutritional information do not display any inaccurate or misleading data.**

****Test Suite:** Recipe Detail Page**

****Test Priority:** Medium**

****Preconditions:****

* A recipe without manually entered nutritional information is added to the platform.

* User is logged in to the platform.

****Test Data:** A recipe that has no nutritional information.**

****Test Steps:****

1. Navigate to the recipe detail page of the chosen recipe.
2. Verify that there is no section for "Nutritional Information" present.
3. Alternatively, confirm that a clear message ("Nutritional information not available") is displayed.

****Postconditions:** Close the recipe detail page.**

****Expected Result:** Either no nutritional information section is displayed or a user-friendly message indicating the absence of data is shown.**

****Severity:** Minor**

****Priority:** Medium**

****Type of Testing:** Functional Testing**

Data - 107

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Ingredient Substitutions

Feature description -

The platform provides suggestions for ingredient substitutions to accommodate dietary restrictions, preferences, and ingredient availability. Ingredient substitution features allow users to adapt recipes to suit their needs and experiment with different flavor profiles.

Userstory title -

As a user, I want to find ingredient substitutions so that I can adapt recipes to my dietary needs and ingredient availability.

Acceptance criteria -

['Users can view recommended ingredient substitutions for recipes.', 'Substitutions are categorized based on dietary needs (e.g., gluten-free, vegan).', 'Substitution suggestions include flavor and texture impacts.', 'Users can search for specific ingredient substitutions.', 'Substitution information is easy to access and integrated with recipes.']

Generated Test Cases:

Recipe Sharing Platform: Ingredient Substitution Test Cases

****User Story:**** As a user, I want to find ingredient substitutions so that I can adapt recipes to my dietary needs and ingredient availability.

****Test Case 1****

* ****Test Case ID:**** TC-RS-SUB-001

* ****Test Case Title:**** Verify that users can view recommended ingredient substitutions for a recipe.

* ****Test Case Description:**** This test case verifies the functionality of displaying ingredient substitutions when a user accesses a recipe containing substitutable ingredients. It will check if the suggested substitutions are relevant to the original ingredient and cater to common dietary needs.

* ****Test Suite:**** Ingredient Substitution

* ****Test Priority:**** High

* ****Preconditions:****

- * A recipe with at least one ingredient that has potential substitutions is available on the platform.

- * The user is logged in to the platform.

* ****Test Data:**** Recipe containing ingredients with established substitutions.

* ****Test Steps:****

1. Navigate to the recipe page with substitutable ingredients.
2. Locate the section dedicated to ingredient substitutions.
3. Verify that the suggested substitutions are displayed alongside the original ingredient.

* ****Postconditions:****

- * The user remains on the recipe page.

* ****Expected Result:**** A list of relevant ingredient substitutions accurately categorized by dietary need (e.g., vegan, gluten-free) is displayed for each applicable ingredient.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

Test Case 2

* **Test Case ID:** TC-RS-SUB-002

* **Test Case Title:** Verify that substitution suggestions include flavor and texture impacts.

* **Test Case Description:** This test case evaluates if the system provides information about the potential flavor and texture changes when substituting ingredients.

* **Test Suite:** Ingredient Substitution

* **Test Priority:** High

* **Preconditions:**

- * A recipe with substitutable ingredients is available.

- * The user is logged in to the platform.

* **Test Data:** Recipe with varied ingredient substitution options (e.g., substitutes for herbs, spices, fats).

* **Test Steps:**

1. Access the recipe page containing substitutable ingredients.

2. For each suggested substitution, review the accompanying information about the flavor and texture impacts.

* **Postconditions:**

- * The user remains on the recipe page.

* **Expected Result:** Each substitution suggestion includes a brief description of how the flavor and texture of the dish might change when using the suggested alternative.

* **Severity:** Major

* **Priority:** High

* **Type of Testing:** Functional Testing

****Test Case 3****

* **Test Case ID:** TC-RS-SUB-003

* **Test Case Title:** Verify that users can search for specific ingredient substitutions.

* **Test Case Description:** This test case assesses the functionality of the search feature for specific ingredient substitutions.

* **Test Suite:** Ingredient Substitution

* **Test Priority:** Medium

* **Preconditions:**

- * The platform has an established database of ingredient substitutions.

- * The user is logged in to the platform.

* **Test Data:** Specific ingredients that have known substitutions (e.g., "dairy-free milk" or "gluten-free flour").

* **Test Steps:**

1. Navigate to the ingredient substitution search functionality.
2. Enter a specific ingredient for which a substitution is needed in the search bar.
3. Review the search results to verify relevant substitution options are displayed.

* **Postconditions:**

- * The user remains on the ingredient substitution search page.

* **Expected Result:** The search results page displays a list of relevant substitutes for the inputted ingredient, categorized by dietary needs or preferences.

* **Severity:** Moderate

* **Priority:** Medium

* **Type of Testing:** Functional Testing

* **Test Case 4**

* **Test Case ID:** TC-RS-SUB-004

* **Test Case Title:** Verify that substitution information is easy to access and integrated with recipes.

* **Test Case Description:** This test case examines the user interface to ensure that substitution information is presented in a clear, concise, and accessible manner within the recipe context.

* **Test Suite:** Ingredient Substitution

* **Test Priority:** Medium

* **Preconditions:**

- * A recipe with at least one ingredient that has potential substitutions is available on the platform.

- * The user is logged in to the platform.

* **Test Data:** Recipe containing ingredients with established substitutions.

* **Test Steps:**

1. Navigate to the recipe page containing substitutable ingredients.
2. Observe the placement, formatting, and labeling of the substitution information.
3. Attempt to access and understand the substitution suggestions.

* **Postconditions:**

- * The user remains on the recipe page.

* **Expected Result:** The substitution information is easily located within the recipe's structure, presented in a visually appealing and user-friendly manner. The categorization and labeling of substitutions are clear and intuitive.

* **Severity:** Moderate

* **Priority:** Medium

* **Type of Testing:** Usability Testing

Test Case 5

* **Test Case ID:** TC-RS-SUB-005

* **Test Case Title:** Verify handling of edge cases for ingredient substitutions.

* **Test Case Description:** This test case evaluates the system's response to unusual or missing input, such as uncommon ingredients or requesting substitutions for staple ingredients with no known alternatives.

* **Test Suite:** Ingredient Substitution

* **Test Priority:** Medium

* **Preconditions:**

- * The program has access to a comprehensive database of ingredients and substitutions.

- * The user is logged in to the platform.

* **Test Data:**

- * Unique or uncommon ingredients that may have limited substitution options.

- * Staple ingredients with few potential substitutions (e.g., water, salt).

* **Test Steps:**

1. Input an edge case ingredient into the substitution search.

2. Observe the system's response.

3. Identify if a suitable error message is displayed or if the system offers potential solutions for navigating these limitations.

* **Postconditions:**

- * The user remains on the ingredient substitution search page

* **Expected Result:** The platform either provides relevant substitution options if available or displays a clear and informative message explaining the limitations for the specific ingredient, guiding the user on how to proceed.

* **Severity:** Minor

* **Priority:** Medium

* **Type of Testing:** Functional Testing, Error Handling Testing

Data - 108

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Meal Categories

Feature description -

Recipes are categorized into various meal types, such as breakfast, lunch, dinner, snacks, desserts, and beverages, making it easy for users to find recipes for specific occasions or times of day. Meal categories streamline recipe discovery and meal planning for users with different dietary preferences and lifestyles.

Userstory title -

As a user, I want to browse recipes by meal categories so that I can easily find recipes for specific times of day or occasions.

Acceptance criteria -

['Users can browse recipes by selecting meal categories.', 'Categories include breakfast, lunch, dinner, snacks, desserts, and beverages.', 'Users can filter recipes within categories by dietary preferences.', 'Categories are visually distinct and easy to navigate.', 'Users can save recipes from any category to their profile.']

Generated Test Cases:

Recipe Sharing Platform: Meal Categories Test Cases

Test Case 1:

Test Case ID: TC_MealCategories_001

Test Case Title: Verify that users can browse recipes by selecting meal categories.

Test Case Description: This test case verifies the functionality of browsing recipes by selecting different meal categories from the available options.

Test Suite: User Interface

Test Priority: High

Preconditions:

* User is logged in to the platform.

* Recipes with distinct meal categories are available in the database.

Test Data:

* List of meal categories (breakfast, lunch, dinner, snacks, desserts, beverages)

Test Steps:

1. Navigate to the recipe page on the platform.
2. Click on the "Meal Categories" filter.
3. Select "Breakfast" from the list of categories.
4. Verify that the displayed recipes are only those categorized as "Breakfast."
5. Repeat steps 3-4 for other meal categories (lunch, dinner, snacks, desserts, beverages).

Postconditions:

- * All selected meal categories should display relevant recipes.
- * The filter selection should be retained even after browsing other pages.

****Expected Result:****

The platform successfully filters recipes based on the selected meal category, displaying only relevant results.

****Severity:** Major**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case 2:****

****Test Case ID:** TC_MealCategories_002**

****Test Case Title:** Verify that categories include breakfast, lunch, dinner, snacks, desserts, and beverages.**

****Test Case Description:** This test case ensures that all predefined meal categories are present in the platform's filtering options.**

****Test Suite:** User Interface**

****Test Priority:** Medium**

****Preconditions:****

* User is logged in to the platform.

****Test Data:****

* List of meal categories (breakfast, lunch, dinner, snacks, desserts, beverages)

****Test Steps:****

1. Navigate to the recipe page on the platform.
2. Click on the "Meal Categories" filter.
3. Verify that all six predefined categories (breakfast, lunch, dinner, snacks, desserts, beverages) are displayed in the filter options.

****Postconditions:****

* All categories should be displayed in the correct order.

****Expected Result:****

The platform displays all six meal categories in the filter options.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case 3:****

****Test Case ID:**** TC_MealCategories_003

****Test Case Title:**** Verify that users can filter recipes within categories by dietary preferences.

****Test Case Description:**** This test case verifies the functionality of filtering recipes within selected meal

categories by specific dietary preferences (e.g., vegetarian, vegan, gluten-free).

****Test Suite:**** User Interface

****Test Priority:**** High

****Preconditions:****

* User is logged in to the platform.

* Recipes with different dietary preferences are available in the database.

****Test Data:****

* Meal category: Lunch (example)

* Dietary preferences: Vegetarian, Vegan, Gluten-free

****Test Steps:****

1. Navigate to the recipe page on the platform.
2. Click on the "Meal Categories" filter and select "Lunch."
3. Click on the "Dietary Preferences" filter.
4. Select "Vegetarian" from the list of dietary preferences.
5. Verify that the displayed recipes are only those categorized as "Lunch" and tagged as "Vegetarian."
6. Repeat steps 4-5 for other dietary preferences (vegan, gluten-free).

****Postconditions:****

* The filter selection should be retained even after browsing other pages.

****Expected Result:****

The platform successfully filters recipes within the selected meal category based on the chosen dietary preference, displaying relevant results.

****Severity:** Major**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case 4:****

****Test Case ID:** TC_MealCategories_004**

****Test Case Title:** Verify that categories are visually distinct and easy to navigate.**

****Test Case Description:** This test case evaluates the visual presentation and user-friendliness of the meal categories for navigation.**

****Test Suite:** User Interface**

****Test Priority:** High**

****Preconditions:****

*** User is logged in to the platform.**

****Test Data:****

*** User Interface Styling**

****Test Steps:****

1. Navigate to the recipe page on the platform.
2. Observe the visual design of the "Meal Categories" filter.
3. Note the clarity and consistency of color, font, and spacing used for each category label.
4. Assess the ease of selection for each category label.

****Postconditions:****

****Expected Result:****

The meal categories are visually distinct, easy to read, and conveniently arranged for user selection, enhancing the browsing experience.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Usability Testing

****Test Case Approach:**** Positive

****Test Case 5:****

****Test Case ID:**** TC_MealCategories_005

****Test Case Title:**** Verify that users can save recipes from any category to their profile.

****Test Case Description:****

This test case confirms the functionality of saving recipes from any meal category to the user's profile.

****Test Suite:**** User Profile

****Test Priority:**** Medium

****Preconditions:****

* User is logged in to the platform.

* Recipes are available in one or more selected categories.

****Test Data:****

* A recipe belonging to a specific meal category

****Test Steps:****

1. Navigate to the recipe page of a recipe belonging to a particular meal category (e.g., "Breakfast").
2. Locate the 'Save' button on the recipe page.
3. Click on the 'Save' button.
4. Verify that the recipe is successfully saved to the user's profile.

****Postconditions:****

* The recipe should appear in the user's saved recipes section.

****Expected Result:****

The platform allows users to save recipes from any meal category to their profiles for later access.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Data - 109

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Seasonal Recipes

Feature description -

The platform features seasonal recipes that highlight fresh, in-season ingredients and flavors, inspiring users to cook with seasonal produce and ingredients. Seasonal recipe collections showcase the best of each season's offerings and provide seasonal cooking inspiration.

Userstory title -

As a user, I want to find seasonal recipes so that I can cook with fresh, in-season ingredients.

Acceptance criteria -

['Users can browse and filter recipes by season.', 'Seasonal recipes highlight in-season ingredients.', 'Recipes include information on where to find seasonal produce.', 'Users can save seasonal recipes to their profile.', 'The platform updates seasonal recipes regularly.']

Generated Test Cases:

Test Cases for Seasonal Recipes Feature

Here are 5 detailed test cases for the "Seasonal Recipes" feature of the Recipe Sharing Platform:

****Test Case 1: Verify that users can browse seasonal recipes.****

*** **Test Suite:**** User Interface - Recipe Functionality

*** **Test Priority:**** High

*** **Preconditions:****

- * User is logged in to the platform

- * Seasonal recipe content is available on the platform

*** **Test Data:**** No test data needed

*** **Test Steps:****

1. Navigate to the recipe section of the platform.
2. Locate the "Seasonal Recipes" filter/section.
3. Select a season from the available options (e.g., Spring).
4. Verify that the displayed recipes are relevant to the selected season.
5. Ensure that the number of seasonal recipes displayed is reasonable.

*** **Postconditions:****

- * The user remains on the recipe page.

*** **Expected Result:**** The platform successfully displays a curated collection of recipes relevant to the chosen season.

*** **Severity:**** Critical

*** **Priority:**** High

*** **Type of Testing:**** Functional Testing, User Acceptance Testing

****Test Case 2: Verify that seasonal recipes highlight in-season ingredients.****

* **Test Suite:** Recipe Content - Seasonality

* **Test Priority:** High

* **Preconditions:**

- * User is logged in

- * A seasonal recipe is available for the current season.

* **Test Data:** A list of known in-season ingredients for the current season.

* **Test Steps:**

1. Select a seasonal recipe from the platform.

2. Carefully examine the recipe ingredients list.

3. Verify that each ingredient listed is currently in-season, using the provided list of in-season ingredients as a reference.

* **Postconditions:** User remains on the selected recipe page.

* **Expected Result:** The seasonal recipe prominently features ingredients that are in-season during the current time period.

* **Severity:** Major

* **Priority:** High

* **Type of Testing:** Functional Testing, Data Validation Testing

Test Case 3: Verify that recipes include information on where to find seasonal produce.

* **Test Suite:** Recipe Guidance - Sourcing

* **Test Priority:** Medium

* **Preconditions:**

- * User is logged in

- * A seasonal recipe with information on sourcing produce is available.

* **Test Data:** Local grocery store names or farmers markets operating within the user's region.

* **Test Steps:**

1. Select a seasonal recipe from the platform.
2. Locate the section of the recipe where sourcing information is provided.
3. Verify that the section suggests specific places (e.g., local stores, farmers markets, online retailers) where the featured seasonal ingredients can be purchased.

* **Postconditions:** User remains on the selected recipe page.

* **Expected Result:** The seasonal recipe provides guidance to users on where to source the featured ingredients within their locality.

* **Severity:** Minor

* **Priority:** Medium

* **Type of Testing:** Functional Testing, Information Accuracy Testing

Test Case 4: Verify that users can save seasonal recipes to their profile.

* **Test Suite:** User Profile - Recipe Management

* **Test Priority:** High

* **Preconditions:**

- * User is logged in to the platform
- * Access to save recipes to their profile is available.
- * A seasonal recipe is available for selection.

* **Test Data:** No test data needed

* **Test Steps:**

1. Navigate to a seasonal recipe on the platform.
2. Locate the "Save Recipe" or similar button.
3. Click on the "Save Recipe" button to save the recipe to the user's profile.
4. Verify that the recipe now appears in the user's saved recipes list within their profile.

* **Postconditions:** User remains on the recipe page or is directed to the user profile.

* **Expected Result:** The seasonal recipe is successfully saved to the user's profile for future access.

* **Severity:** Blocking

* **Priority:** High

* **Type of Testing:** Functional Testing, User Account Features Testing

Test Case 5: Verify that the platform updates seasonal recipes regularly.

* **Test Suite:** Content Management - Seasonality

* **Test Priority:** Medium

* **Preconditions:**

- * Platform has a dedicated section for seasonal recipes.

- * Two different seasons (e.g., Spring and Summer) are identifiable on the platform.

* **Test Data:** List of known seasonal ingredients for each specified time period.

* **Test Steps:**

1. Access seasonal recipes for Spring and take note of the featured ingredients.

2. Wait for a duration spanning a few weeks.

3. Repeat step 1 with access to seasonal recipes again, this time focusing on Summer.

4. Compare the ingredients listed in Spring and Summer recipes and verify a significant change in featured ingredients.

5. Ensure the featured recipes for each season are relevant to the time period.

* **Postconditions:** No specific postconditions required.

* **Expected Result:** The platform effectively updates its seasonal recipe collections with fresh and relevant recipes featuring ingredients appropriate for each season.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Regression Testing, Content Accuracy Testing

Data - 110

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Global Cuisine

Feature description -

Users can explore recipes from around the world, representing diverse culinary traditions, cultures, and cuisines. Global cuisine features expose users to new flavors, ingredients, and cooking techniques, expanding their culinary horizons and cultural awareness.

Userstory title -

As a user, I want to explore global cuisine recipes so that I can try new dishes and learn about different culinary traditions.

Acceptance criteria -

['Users can browse recipes by global cuisine categories.', 'Each cuisine category includes authentic recipes from the region.', 'Recipes include information on traditional cooking techniques.', 'Users can filter recipes by

region or country.', 'The platform promotes cultural awareness through cuisine exploration.']

Generated Test Cases:

Recipe Sharing Platform - Global Cuisine Test Cases

Here are 5 detailed test cases for the "Global Cuisine" feature of the Recipe Sharing Platform, adhering to the provided template:

****Test Case ID:**** TC_GC_01

****Test Case Title:**** Verify that users can browse recipes by global cuisine categories.

****Test Case Description:**** This test case verifies that the platform displays a list of selectable global cuisine categories for users to browse recipes.

****Test Suite:**** Global Cuisine Feature

****Test Priority:**** High

****Preconditions:****

- * User is logged into the platform.
- * The platform is running on a stable network connection.

****Test Data:**** No test data needed

****Test Steps:****

1. Navigate to the Recipe section of the platform.
2. Locate the "Global Cuisine" filter section.
3. Observe that the available cuisine categories are clearly displayed (e.g., Italian, Mexican, Chinese, Indian, etc.).

****Postconditions:****

* No errors or unexpected behavior is observed during navigation and filtering

****Expected Result:**** A list of selectable global cuisine categories will be displayed, enabling users to browse recipes by specific cuisines.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, User Interface Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_GC_02

****Test Case Title:**** Verify that each cuisine category includes authentic recipes from the region.

****Test Case Description:**** This test case ensures that each selected cuisine category on the platform displays recipes that are representative of that specific culinary tradition.

****Test Suite:**** Global Cuisine Feature

****Test Priority:**** High

****Preconditions:****

* User is logged into the platform.

* The platform is running on a stable network connection.

****Test Data:****

* Select different cuisine categories (e.g., Italian, Mexican, Indian).

* Reference known authentic recipes from those regions.

****Test Steps:****

1. Select a specific cuisine category from the "Global Cuisine" filter.
2. Browse through the displayed recipes within that category.
3. Verify that the recipes reflect authentic cooking techniques, ingredients, and flavors specific to the selected cuisine.

****Postconditions:****

* No errors or unexpected behavior is observed during browsing and recipe selection.

****Expected Result:**** Displayed recipes will accurately represent the selected cuisine's culinary traditions, using authentic ingredients and techniques.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Content Accuracy Testing

****Test Case Approach:**** Positive, Reference Based

****Test Case ID:**** TC_GC_03

****Test Case Title:**** Verify that recipes include information on traditional cooking techniques.

****Test Case Description:**** This test case ensures that recipes within each global cuisine category provide

information on the traditional cooking methods used in preparing the dish.

****Test Suite:**** Global Cuisine Feature

****Test Priority:**** Medium

****Preconditions:****

- * User is logged into the platform.
- * The platform is running on a stable network connection.

****Test Data:****

- * Select recipes from various cuisine categories.

****Test Steps:****

1. Choose a recipe from a specific global cuisine category.
2. Carefully review the recipe instructions and ingredients.
3. Look for specific mentions or descriptions of traditional cooking techniques used in preparing the dish (e.g., "sautéed in butter," "slow-cooked in a clay pot," "roasted over an open fire").

****Postconditions:****

- * No errors or unexpected behavior is observed during recipe viewing.

****Expected Result:**** Recipes will include details about traditional cooking techniques relevant to the specific cuisine.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Content Detail Testing

****Test Case Approach:** Positive**

****Test Case ID:** TC_GC_04**

****Test Case Title:** Verify that users can filter recipes by region or country.**

****Test Case Description:** This test case confirms that users can narrow down their recipe search within global cuisine categories to specific regions or countries.**

****Test Suite:** Global Cuisine Feature**

****Test Priority:** High**

****Preconditions:****

- * User is logged into the platform.
- * The platform is running on a stable network connection.

****Test Data:****

- * Select a broad global cuisine category (e.g., Asian).
- * Identify specific countries or regions within that category (e.g., Japan, Vietnam).

****Test Steps:****

1. Select a global cuisine category from the "Global Cuisine" filter.
2. Look for additional filtering options within that category (e.g., "Country," "Region").
3. Apply filters to narrow the displayed recipes to specific countries or regions (e.g., select "Japan" within the "Asian" cuisine category).

****Postconditions:****

* No errors or unexpected behavior is observed during filtering.

****Expected Result:**** Applying region/country filters will effectively reduce the displayed recipes to those specific to the selected location within the chosen cuisine category.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Filter Functionality Testing

****Test Case Approach:**** Positive,

****Test Case ID:**** TC_GC_05

****Test Case Title:**** Verify that the platform promotes cultural awareness through cuisine exploration.

****Test Case Description:**** This test case assesses whether the platform's global cuisine features contribute to a greater understanding and appreciation of diverse cultures through culinary exploration.

****Test Suite:**** Global Cuisine Feature

****Test Priority:**** Medium

****Preconditions:****

* User is logged into the platform.

* The platform is running on a stable network connection.

****Test Data:****

- * Select various global cuisine categories.
- * Review recipe descriptions, instructional notes, and accompanying images.

****Test Steps:****

1. Browse recipes from a selection of globally diverse cuisines.
2. Examine the recipe details, looking for cultural insights, historical context, or traditions associated with the dishes.
3. Pay attention to any accompanying images or videos that showcase cultural elements related to the cuisine.

****Postconditions:****

- * No errors or unexpected behavior is observed during recipe viewing.

****Expected Result:**** Recipes and accompanying content should offer glimpses into the cultural traditions, history, and stories behind the selected cuisines, fostering cultural awareness and appreciation.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Usability Testing, Cultural Sensitivity Testing, Content Analysis Testing

****Test Case Approach:**** Qualitative, Observational

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Recipe Collections

Feature description -

Users can create and curate collections of their favorite recipes, organizing them into categories such as 'quick and easy,' 'healthy meals,' 'family favorites,' and more. Recipe collections allow users to save and share recipes that resonate with their tastes and preferences.

Userstory title -

As a user, I want to create and manage recipe collections so that I can organize and easily access my favorite recipes.

Acceptance criteria -

['Users can create new recipe collections.', 'Collections can be named and categorized by the user.', 'Users can add and remove recipes from collections.', 'Collections can be shared with other users.', 'Users can view and manage all their collections from their profile.']

Generated Test Cases:

Recipe Sharing Platform - Recipe Collections Test Cases

****Test Case 1:**** Verify that users can create new recipe collections.

* **Test Case Description:** This test case verifies the functionality allowing users to create new recipe collections with custom names.

* **Test Suite:** User Feature - Recipe Collections

* **Test Priority:** High

* **Preconditions:**

- * A logged-in user is on the platform.

- * The user has an authorized account.

* **Test Data:** A unique collection name ("My Favorite Desserts").

* **Test Steps:**

1. Navigate to the user profile page.
2. Click on the "Create New Collection" button.
3. Enter the collection name ("My Favorite Desserts").
4. Click on the "Create Collection" button.

* **Postconditions:**

- * The newly created collection ("My Favorite Desserts") is visible on the user profile page.

* **Expected Result:** The system successfully creates the new recipe collection with the specified name.

Severity: Critical

Priority: High

Type of Testing: Functional Testing

Test Case Approach: Positive

Test Case 2: Verify that users can categorize recipe collections.

* **Test Case Description:** This test case ensures that users can assign categories to their recipe collections for better organization.

* **Test Suite:** User Feature - Recipe Collections

* **Test Priority:** High

* **Preconditions:**

- * A logged-in user has a successfully created recipe collection.

* **Test Data:** Existing recipe collection and a selection of categories ("Breakfast," "Dinner," "Desserts").

* **Test Steps:**

1. Navigate to the user profile page and open the existing recipe collection.
2. Locate the category selection option.
3. Select the categories "Breakfast" and "Desserts" for the collection.
4. Click on the "Save Changes" button.

* **Postconditions:**

- * The recipe collection's categories have been updated.

* **Expected Result:** The system successfully applies the selected categories to the recipe collection.

Severity: Major

Priority: High

Type of Testing: Functional Testing

Test Case Approach: Positive

Test Case 3: Verify that users can add and remove recipes from collections.

* **Test Case Description:** This test case verifies the functionality of adding and removing individual recipes from an existing user-created collection.

* **Test Suite:** User Feature - Recipe Collections

* **Test Priority:** High

* **Preconditions:**

- * A logged-in user has a recipe collection.

* At least one recipe exists in the platform's database.

* **Test Data:** Existing recipe collection and a chosen recipe.

* **Test Steps:**

1. Navigate to the user profile page and open the chosen recipe collection.
2. Locate the "Add Recipe" button and select the chosen recipe.
3. Verify that the recipe is added to the collection.
4. Locate the "Remove Recipe" button for the chosen recipe in the collection.
5. Click on the "Remove Recipe" button.
6. Verify that the chosen recipe is removed from the collection.

* **Postconditions:** Recipe added to collection and subsequently removed.

* **Expected Result:** The system seamlessly adds and removes the specified recipe from the collection.

Severity: Critical

Priority: High

Type of Testing: Functional Testing

Test Case Approach: Positive

Test Case 4: Verify that users can share recipe collections with other users.

* **Test Case Description:** This test case ensures that users can share their recipe collections with other identified users.

* **Test Suite:** User Feature - Recipe Collections

* **Test Priority:** Medium

* **Preconditions:**

* A logged-in user has a recipe collection.

* Another user account exists in the system to accept the share request.

* **Test Data:** Existing recipe collection and the username of the target user.

****Test Steps:****

1. Navigate to the user profile page and open the chosen recipe collection.
2. Locate the "Share Collection" option.
3. Enter the username of the target user.
4. Click on the "Share" button.

****Postconditions:****

- * The target user receives a notification about the shared collection.
- * The target user can view the shared collection on their profile page.

****Expected Result:**** The system successfully shares the recipe collection with the specified user.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Integration Testing

****Test Case Approach:**** Positive

****Test Case 5:**** Verify that users can view and manage all their recipe collections from their profile.

****Test Case Description:**** This test case verifies the user's ability to access and manage all their created recipe collections from their profile page.

****Test Suite:**** User Feature - Recipe Collections

****Test Priority:**** Medium

****Preconditions:****

- * A logged-in user has at least two different recipe collections.

****Test Data:**** No test data required.

****Test Steps:****

1. Navigate to the user profile page.
2. Locate the "My Collections" section.

3. Verify that all created collections are listed in the section.
4. Click on an existing collection to view its details.
5. Click on the "Edit" button for a collection.
6. Modify the collection's name or category.
7. Click on the "Save Changes" button.

* **Postconditions:**

- * The visited recipe collection details are displayed accurately.
- * The collection's details have been successfully updated.

* **Expected Result:** The system displays all the user's recipe collections and allows them to view and edit their details as expected.

Severity: Major

Priority: Medium

Type of Testing: Functional Testing

Test Case Approach: Positive

Data - 112

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Cooking Challenges

Feature description -

The platform hosts cooking challenges and contests where users can compete to create the best recipes within a specific theme or category. Cooking challenges encourage creativity, collaboration, and friendly competition among users.

Userstory title -

As a user, I want to participate in cooking challenges so that I can showcase my skills and compete with others.

Acceptance criteria -

['Users can view and join active cooking challenges.', 'Challenges include specific themes or categories.', 'Users can submit their recipes for consideration.', 'Challenges have clear rules and judging criteria.', 'Winners are announced and rewarded based on performance.']

Generated Test Cases:

Cooking Challenges Test Cases

****Test Case 1****

*** **Test Case ID:** TC_CC01**

*** **Test Case Title:** Verify that users can view active cooking challenges.**

*** **Test Case Description:** This test case verifies that the platform displays a list of currently active cooking challenges for users to view.**

* **Test Suite:** User Interface - Cooking Challenges

* **Test Priority:** High

* **Preconditions:**

* A user is logged into the platform.

* **Test Data:** No test data needed

* **Test Steps:**

1. Navigate to the "Cooking Challenges" section of the platform.

2. Verify that a list of active cooking challenges is displayed.

3. Click on one of the challenges to view its details page.

* **Postconditions:** No postconditions

* **Expected Result:** The platform should successfully display a list of active cooking challenges with relevant details for each challenge.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, User Interface Testing

* **Test Case Approach:** Positive

Test Case 2

* **Test Case ID:** TC_CC02

* **Test Case Title:** Verify that challenges have specific themes or categories.

* **Test Case Description:** This test case ensures that each cooking challenge has a defined theme or category.

* **Test Suite:** Feature Functionality - Cooking Challenges

* **Test Priority:** High

* **Preconditions:**

* A user is logged into the platform.

* **Test Data:** No test data needed

* **Test Steps:**

1. Navigate to the "Cooking Challenges" section of the platform.
2. Select a random active challenge from the list.
3. Verify that the challenge details page displays a specific theme or category for the challenge.

* **Postconditions:** No postconditions

* **Expected Result:** Each challenge should have a clearly defined theme or category.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, User Interface Testing

* **Test Case Approach:** Positive

Test Case 3

* **Test Case ID:** TC_CC03

* **Test Case Title:** Verify that users can submit recipes for cooking challenge consideration.

* **Test Case Description:** This test case validates the functionality of submitting recipes for a cooking challenge.

* **Test Suite:** User Interaction - Cooking Challenges

* **Test Priority:** High

* **Preconditions:**

* A user is logged into the platform.

* An active cooking challenge with a submission deadline is available.

* **Test Data:** A valid recipe with relevant information (ingredients, instructions, title, etc.)

* **Test Steps:**

1. Navigate to the active challenge details page.
2. Click on the "Submit Recipe" button.
3. Fill in the necessary recipe details according to the challenge guidelines.
4. Upload a photo or video of the prepared dish (optional).

5. Submit the recipe for consideration.

* **Postconditions:**

* The user should receive a confirmation message about their submission.

* **Expected Result:** The platform should accept and process the recipe submission successfully within the challenge timeframe.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, User Interaction Testing

* **Test Case Approach:** Positive

Test Case 4

* **Test Case ID:** TC_CC04

* **Test Case Title:** Verify that challenges have clear rules and judging criteria.

* **Test Case Description:** This test case ensures that the platform provides clear guidelines and judging criteria for participants.

* **Test Suite:** Feature Functionality - Cooking Challenges

* **Test Priority:** Medium

* **Preconditions:**

* A user is logged into the platform.

* An active cooking challenge is available.

* **Test Data:** No test data needed

* **Test Steps:**

1. Navigate to the active challenge details page.
2. Read through the challenge rules and judging criteria carefully.
3. Verify that the rules are comprehensive and easy to understand.
4. Assess if the judging criteria are specific and objective.

* **Postconditions:** No postconditions

* **Expected Result:** The challenge description should clearly outline the rules and criteria for participation and evaluation.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing, Content Testing

* **Test Case Approach:** Positive

Test Case 5

* **Test Case ID:** TC_CC05

* **Test Case Title:** Verify that winners are announced and rewarded based on performance.

* **Test Case Description:** This test case ensures that the platform notifies winners and applies appropriate rewards according to the challenge guidelines. (Note: This may require simulating challenge completion and judging.)

* **Test Suite:** Feature Functionality - Cooking Challenges

* **Test Priority:** Medium

* **Preconditions:**

- * A cooking challenge with defined winning criteria and rewards is completed.

* **Test Data:** A winning recipe with corresponding points based on defined judging criteria.

* **Test Steps:**

1. Simulate a complete challenge with entries and judging. (Note: This might need collaboration with developers if the platform doesn't offer a simulated environment.)

2. Analyze the results and verify that the winning recipe fulfills the criteria and scores the highest.

3. Observe if the platform correctly announces the winner.

4. If applicable, verify that the winner receives the designated reward (e.g., badge, virtual points, featured recipe status, etc.).

* **Postconditions:**

- * No unique postconditions.

- * **Expected Result:** After the simulated judging, the platform should accurately identify the winner, announce them appropriately, and bestow the specified rewards.
- * **Severity:** Major
- * **Priority:** Medium
- * **Type of Testing:** Functional Testing, User Interface Testing
- * **Test Case Approach:** Positive

These detailed test cases aim to provide a comprehensive assessment of the Cooking Challenges feature within the Recipe Sharing Platform, ensuring it meets quality standards and user expectations.

Data - 113

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Community Forums

Feature description -

Users can participate in community forums and discussion groups to share cooking tips, recipe ideas, and culinary experiences with other members. Community forums foster a sense of belonging, camaraderie, and

knowledge exchange among users with a shared passion for cooking.

Userstory title -

As a user, I want to participate in community forums so that I can share my culinary experiences and learn from others.

Acceptance criteria -

['Users can join and participate in community forums.', 'Forums are organized by topics or categories.', 'Users can post new threads and reply to existing ones.', 'Forum discussions are moderated to ensure respectful and constructive interaction.', 'Users can follow specific forums or threads to receive updates.']

Generated Test Cases:

Test Cases for Community Forums Feature:

****Test Case ID:**** TC_COMF_001

****Test Case Title:**** Verify that users can join community forums.

****Test Case Description:****

This test case verifies the functionality for users to join existing community forums. It will check if users can successfully subscribe to a forum and if their subscription status can be confirmed.

****Test Suite:**** User Authentication & Community Features

****Test Priority:**** High

****Preconditions:****

* A user account is created and logged in.

* At least one community forum is available.

****Test Data:****

* No test data needed.

****Test Steps:****

1. Navigate to the forums section of the application.
2. Click on the "Join" button of a specific forum.
3. Verify that the user is successfully subscribed to the chosen forum.
4. Navigate to the user profile page.
5. Verify that the chosen forum is listed under the user's "Subscribed Forums" section.

****Postconditions:****

* User remains subscribed to the forum.

****Expected Result:****

The user should be able to successfully join a community forum and their membership should be reflected in their profile.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_COMF_002**

****Test Case Title:** Verify that users can post new threads in forums.**

****Test Case Description:****

This test case verifies the ability for users to create new discussion threads within existing forums. It will check if users can input title and content for a thread and successfully submit it.

****Test Suite:**** Community Forums Features

****Test Priority:**** High

****Preconditions:****

- * A user account is created and logged in.
- * User is subscribed to at least one forum.

****Test Data:****

- * Title for the new thread: "My Favorite Baking Tips"
- * Content for the new thread: A short paragraph about favorite baking tips.

****Test Steps:****

1. Navigate to the desired forum.
2. Click on the "Create New Thread" button.
3. Enter the title "My Favorite Baking Tips" in the designated field.
4. Type the provided content in the thread body.
5. Click the "Submit" button to create the new thread.
6. Verify that the new thread with the provided title and content is displayed in the forum.

****Postconditions:****

- * The new thread remains visible in the forum.

****Expected Result:****

The user should be able to successfully create a new thread in a forum and see it posted.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_COMF_003**

****Test Case Title:** Verify that users can reply to existing forum threads.**

****Test Case Description:****

This test case verifies the functionality of replying to existing threads within community forums. It ensures users can add their comments and these replies are correctly displayed.

****Test Suite:** Community Forums Features**

****Test Priority:** High**

****Preconditions:****

- * A user account is created and logged in.
- * User is subscribed to at least one forum.
- * An existing thread is available in the chosen forum.

****Test Data:****

- * Reply content: "That's a great tip! I've been using that method for years."

****Test Steps:****

1. Navigate to the forum containing the existing thread.
2. Locate the desired existing thread.
3. Click the "Reply" button below the thread.
4. Type the predefined reply content "That's a great tip! I've been using that method for years." in the reply box.
5. Click the "Submit" button to post the reply.

****Postconditions:****

- * The user's reply is visible below the original thread post.

****Expected Result:****

The user should be able to successfully reply to an existing thread and see their reply displayed below the thread.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_COMF_004**

****Test Case Title:**** Verify that forum discussions are moderated for respectful interaction.

****Test Case Description:**** This test case verifies the moderation system within the community forums. It aims to ensure that unacceptable content is prevented and that discussions remain constructive.

****Test Suite:**** Community Moderation

****Test Priority:**** High

****Preconditions:****

- * User accounts are created.
- * Community forum is active with user participation.
- * A moderation team with appropriate permissions is established.

****Test Data:****

- * Test content examples:
 - * Hate speech or offensive language
 - * Spam or promotional content
 - * Personal attacks or harassment
 - * Inaccurate or misleading information.

****Test Steps:****

1. Post test content examples (listed above) in different forums.
2. Monitor the status of the posted content. Observe if it is flagged for review or removed.
3. Investigate the moderation log (if available) to confirm actions taken on the test content.
4. Analyze the community feedback on the moderation process.

****Postconditions:****

- * Moderated content is removed or appropriately sanctioned.

****Expected Result:****

The forum moderation system effectively identifies and addresses inappropriate content, ensuring a respectful and constructive environment for users.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case ID:**** TC_COMF_005

****Test Case Title:**** Verify that users can follow specific forums or threads.

****Test Case Description:****

This test case confirms that users can follow specific forums and threads to receive notifications about new activity.

****Test Suite:**** Community Engagement Features

****Test Priority:**** Medium

****Preconditions:****

- * A user account is created and logged in.

****Test Data:****

- * A selected forum
- * A selected thread within the forum

****Test Steps:****

1. Navigate to the chosen forum.
2. Locate the follow button (or equivalent) for the forum and click on it.
3. Verify that the user successfully subscribed to receive notifications for this forum.
4. Repeat steps 1-3 for a specific thread within the forum.
5. Observe the user's activity feed or notification centre for updates related to the followed forum and thread.

****Postconditions:****

- * User's profile reflects their subscriptions to the forum and thread.
- * User receives notifications for new posts within the followed forum and thread.

****Expected Result:****

The user should be able to follow specific forums and threads, and receive timely alerts for new activity in those areas.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Ingredient Glossary

Feature description -

The platform includes an ingredient glossary with detailed information about common and specialty ingredients used in recipes. The ingredient glossary provides definitions, descriptions, and usage tips to help users become more familiar with various ingredients and their culinary applications.

Userstory title -

As a user, I want to access an ingredient glossary so that I can learn about different ingredients and their uses.

Acceptance criteria -

['Users can access an ingredient glossary from the main menu.', 'Glossary includes detailed descriptions of ingredients.', 'Users can search for specific ingredients.', 'Entries include usage tips and culinary applications.', 'Users can suggest new ingredients for inclusion.']

Generated Test Cases:

Recipe Sharing Platform: Ingredient Glossary Test Cases

****Test Case ID:**** TC_Glossary_001

****Test Case Title:**** Verify that users can access the ingredient glossary from the main menu.

****Test Case Description:**** This test case verifies if the ingredient glossary link is present and accessible on the platform's main menu.

****Test Suite:**** User Interface

****Test Priority:**** High

****Preconditions:****

* User is logged into the platform.

* Platform is fully functional.

****Test Data:**** No test data needed

****Test Steps:****

1. Navigate to the platform's homepage.
2. Locate the main menu.
3. Click on the "Ingredient Glossary" link.
4. Verify that the page displays the ingredient glossary interface.

****Postconditions:****

* The user is navigated to the ingredient glossary page.

****Expected Result:****

The ingredient glossary page loads successfully.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:** TC_Glossary_002**

****Test Case Title:** Verify that the glossary includes detailed descriptions of ingredients.**

****Test Case Description:** This test case verifies if ingredient entries in the glossary provide detailed and comprehensive information.**

****Test Suite:** Ingredient Functionality**

****Test Priority:** High**

****Preconditions:****

* User is logged into the platform.

* Platform is fully functional.

****Test Data:****

* Select a common ingredient (e.g., "flour").

****Test Steps:****

1. Access the ingredient glossary.

2. Search for the selected ingredient (e.g., "flour").

3. Review the ingredient entry's description, usage tips, and culinary applications.

****Postconditions:****

* The ingredient entry is displayed. The user understands the ingredient's properties.

****Expected Result:****

The ingredient entry provides a detailed definition, description, usage tips, and examples of culinary applications.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_Glossary_003**

****Test Case Title:** Verify that users can search for specific ingredients.**

****Test Case Description:** This test case ensures the search functionality within the ingredient glossary works correctly.**

****Test Suite:** Ingredient Functionality**

****Test Priority:** High**

****Preconditions:****

* User is logged into the platform.

* Platform is fully functional.

****Test Data:****

* Select a specific ingredient (e.g., "cumin").

****Test Steps:****

1. Access the ingredient glossary.
2. Enter the selected ingredient (e.g., "cumin") in the search bar.
3. Click the search button.
4. Verify that the search results display relevant ingredient entries for the searched term.

****Postconditions:****

* The searched ingredient is found.

****Expected Result:****

The search function returns accurate and relevant results for the specified ingredient.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_Glossary_004

****Test Case Title:**** Verify that users can suggest new ingredients for inclusion.

****Test Case Description:**** This test case verifies if the "Suggest Ingredient" functionality within the glossary allows users to contribute new ingredients.

****Test Suite:**** User Interaction

****Test Priority:**** Medium

****Preconditions:****

* User is logged into the platform.

* Platform is fully functional.

****Test Data:****

* A new ingredient not currently listed in the glossary (e.g., "yuzu pepper").

****Test Steps:****

1. Access the ingredient glossary.
2. locate the "Suggest Ingredient" button or link.
3. Click on the "Suggest Ingredient" button.
4. Fill in the required information for the new ingredient (name, description, usage tips).

5. Submit the suggestion.

****Postconditions:****

* The user receives confirmation of the suggested ingredient.

****Expected Result:****

A system message confirms successful submission of the ingredient suggestion

****Test Case ID:**** TC_Glossary_005

****Test Case Title:**** Verify handling of incorrect or missing input in ingredient suggestions.

****Test Case Description:**** This test case checks if the system handles invalid input or missing information gracefully.

****Test Suite:**** System Functionality

****Test Priority:**** Medium

****Preconditions:****

* User is logged into the platform.

* Platform is fully functional.

****Test Data:****

* Empty input fields for ingredient suggestion

****Test Steps:****

1. Access the ingredient glossary.

2. locate the "Suggest Ingredient" button.
3. Click on the "Suggest Ingredient" button.
4. Leave all input fields empty.
5. Submit the suggestion.

****Postconditions:****

- * The user receives error messages pointing to the missing information.

****Expected Result:****

The system displays clear error messages indicating the mandatory fields that are missing or incomplete, prompting the user to provide the correct information.

Data - 115

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload

their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Recipe Videos

Feature description -

Recipes are accompanied by instructional videos that demonstrate cooking techniques, preparation methods, and recipe execution step-by-step. Recipe videos enhance user engagement, visual learning, and comprehension, making it easier for users to follow along and replicate recipes successfully.

Userstory title -

As a user, I want to watch recipe videos so that I can better understand how to prepare dishes.

Acceptance criteria -

['Users can watch recipe videos associated with recipes.', 'Videos include step-by-step instructions for preparation.', 'Users can pause, rewind, and fast-forward videos.', 'Video quality is high and includes clear audio.', 'Users can rate and comment on videos.']

Generated Test Cases:

Recipe Sharing Platform: Recipe Videos Test Cases

****User Story Title:**** As a user, I want to watch recipe videos so that I can better understand how to prepare dishes.

****Test Case ID | Test Case Title | Test Case Description | Test Suite | Priority | Preconditions | Test Data | Test Steps | Postconditions | Expected Result | Severity | Priority | Type of Testing | Test Case Approach****

----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -----

TC_RV_001 | Verify that video playback functionality works as expected.| This test case will verify if users can successfully play recipe videos and navigate through them using playback controls. | Recipe Videos | High | A recipe containing a video is loaded. | - | 1. Navigate to a recipe page with a video.
2. Click the "Play"

button to start the video.
3. Pause/resume the video using the playback controls.
4. Rewind and fast-forward the video using the respective controls. | Playback controls function correctly.
The video plays smoothly without interruptions. | The video successfully plays, pauses, rewinds, and fast-forwards as expected. | Blocker | High | System Testing | Positive

TC_RV_002 | Verify that videos include step-by-step instructions | This test case verifies if the video content provides clear instructions for each step involved in preparing the recipe. | Recipe Videos | High | A recipe containing a video is loaded. | - | 1. Play the video associated with the recipe.
2. Observe the video content and note the instructions provided.
3. Ensure each step of the recipe is covered with clear visual instructions. | | The video demonstrably guides the user through each step of the recipe. | Critical | High | System Testing | Positive

TC_RV_003 | Verify that video quality is satisfactory | This test case ensures that the video quality is clear and the audio is audible for optimal user experience. | Recipe Videos | High | A recipe containing a video is loaded. | - | 1. Play the video associated with the recipe.
2. Assess the video resolution and sharpness ensuring it is clear enough to see the ingredients and steps.
3. Assess the audio quality ensuring it is clear and understandable. | - | The video exhibits satisfactory resolution and the audio is clear and audible. | Major | Medium | System Testing | Positive

TC_RV_004 | Verify that users can rate and comment on videos | This test case ensures users can provide feedback on the recipes through rating and commenting functionality. | Recipe Videos | Medium | A recipe containing a video is loaded. User account is logged in. | - | 1. Open the video player for a recipe video.
2. Click the "Rate" button and select a rating from the provided scale.
3. Click the "Comment" button and type a comment about the video.
4. Submit the comment. | | The rating and comment are successfully submitted and appear on the video page. | Minor | Low | System Testing | Positive, Negative

TC_RV_005 | Verify that error messages are displayed when unable to load video | This test case checks if the system handles video loading failures gracefully, providing clear error messages to the user. | Recipe Videos | Medium | A recipe page with a video is loaded. | - | 1. Simulate an internet connection failure while attempting to load the video.
2. Observe the displayed error message. | | An appropriate error message is displayed, informing the user about the video loading failure. | Minor | Low | System Testing | Negative

Data - 116

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Recipe Variations

Feature description -

Users can explore variations of popular recipes with different ingredients, flavor profiles, and cooking methods. Recipe variation features allow users to customize recipes to their tastes, dietary preferences, and ingredient availability, encouraging experimentation and creativity in the kitchen.

Userstory title -

As a user, I want to explore recipe variations so that I can customize dishes to my taste and dietary needs.

Acceptance criteria -

['Users can access variations of popular recipes.', 'Variations include different ingredients and cooking methods.', 'Users can suggest their own variations.', 'Variations are categorized by type (e.g., vegetarian, gluten-free).', 'Users can save their favorite variations.']

Generated Test Cases:

Recipe Sharing Platform - Test Cases: Recipe Variations Feature

Here are 5 detailed test cases for the "Recipe Variations" feature of the Recipe Sharing Platform, based on the provided user story and acceptance criteria:

****Test Case 1:**** Verify that users can access variations of popular recipes.

*** **Test Case Description:**** This test case verifies that users can successfully navigate to a page displaying variations of a popular recipe. It will check if the interface displays a clear indication of the original recipe and its variations.

*** **Test Suite:**** Recipe Variations

*** **Test Priority:**** High

*** **Preconditions:****

- * A popular recipe must exist on the platform.

- * The user must be logged in.

*** **Test Data:**** URL of popular recipe page

*** **Test Steps:****

1. Navigate to the popular recipe page.
2. Click on the "Variations" tab or equivalent.
3. Verify that the page displays multiple variations of the recipe.
4. Each variation should have a distinct title and brief description.
5. The variations should include different ingredients and cooking methods.

*** **Postconditions:**** No specific postconditions.

*** **Expected Result:****

- * The "Variations" tab should lead to a page displaying several variations of the popular recipe.

- * Each variation should be distinguishable and provide key details about its recipe.

- * **Severity:** Critical

- * **Priority:** High

- * **Type of Testing:** System Testing, Functional Testing

****Test Case 2:**** Verify that recipe variations include different ingredients and cooking methods.

- * ****Test Case Description:**** This test case ensures that the recipe variations offered include actual differences in ingredients and cooking methods.

- * ****Test Suite:**** Recipe Variations

- * ****Test Priority:**** High

- * ****Preconditions:****

- * A recipe with multiple variations must exist.

- * The user must be logged in.

- * ****Test Data:**** URLs of specific variation pages

- * ****Test Steps:****

- 1. Locate a recipe with variations.

- 2. Select a variation from the list.

- 3. Compare the ingredients and instructions of the variation to the original recipe.

- 4. Ensure that there are noticeable differences in ingredients and/or cooking methods.

- 5. Repeat steps 2-4 for multiple variations.

- * ****Postconditions:**** No specific postconditions.

- * ****Expected Result:**** Each variation should offer a unique set of ingredients and/or cooking methods compared to the original recipe.

- * ****Severity:**** Critical

- * ****Priority:**** High

- * ****Type of Testing:**** System Testing, Functional Testing

****Test Case 3:**** Verify that users can suggest their own recipe variations.

*** **Test Case Description:**** This test case tests the functionality of users submitting their own variations for existing recipes.

*** **Test Suite:**** Recipe Variations

*** **Test Priority:**** Medium

*** **Preconditions:****

- * The user must be logged in.

- * A recipe for which variations can be suggested must exist.

*** **Test Data:**** New variation recipe details (ingredients, instructions, etc.)

*** **Test Steps:****

1. Navigate to the recipe page for which variations can be suggested.
2. Locate the "Suggest Variation" button or equivalent.
3. Click on the button and fill in the required fields with the new variation recipe details.
4. Submit the variation suggestion.
5. Verify that the suggested variation is not immediately visible on the page.
6. (Optional) Verify that the suggestion is visible under a separate section for "Pending Variations."

*** **Postconditions:**** No specific postconditions.

*** **Expected Result:****

- * The user should successfully submit a new recipe variation.

- * Suggested variations should be reviewed and potentially approved by platform administrators before being publicly available.

*** **Severity:**** Major

*** **Priority:**** Medium

*** **Type of Testing:**** System Testing, Functional Testing

****Test Case 4:**** Verify that variations are categorized by type.

****Test Case Description:**** This test case checks the functionality of categorization for recipe variations based on types like vegetarian, gluten-free, etc.

****Test Suite:**** Recipe Variations

****Test Priority:**** Medium

****Preconditions:****

- * A recipe with varying types should exist.

- * The user must be logged in.

****Test Data:**** Variations categorized as vegetarian, gluten-free, etc.

****Test Steps:****

1. Access the variations page for a recipe known to have variations categorized by type.
2. Click on the category filters available (e.g., "Vegetarian," "Gluten-free").
3. Verify that the displayed variations match the selected category.
4. Repeat steps 2 and 3 for different category filters.

****Postconditions:**** No specific postconditions.

****Expected Result:****

- * Filtering by category should accurately display only variations that match the selected type.
- * All categories should be functional and return relevant variations.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** System Testing, Functional Testing

****Test Case 5:**** Verify that users can save their favorite variations.

****Test Case Description:**** This test case confirms the ability of users to mark recipe variations as favorites for easy access later.

* **Test Suite:** Recipe Variations

* **Test Priority:** Medium

* **Preconditions:**

- * The user must be logged in.

- * A recipe with variations should exist.

* **Test Data:** A variation that the user wants to save as a favorite.

* **Test Steps:**

1. Access the variations page for a recipe.

2. Choose a variation that the user wants to save.

3. Locate the "Save" or "Favorite" button and click on it.

4. Verify that the variation is now marked as a favorite (e.g., with a heart icon).

5. (Optional) Navigate to a user's saved favorites section and verify that the saved variation is present.

* **Postconditions:** No specific postconditions.

* **Expected Result:**

- * Users should be able to successfully save recipe variations as favorites.

- * Favorites should be easily accessible, either from the variations page or a dedicated favorites section.

* **Severity:** Minor

* **Priority:** Medium

* **Type of Testing:** System Testing, Functional Testing

It is crucial to execute these test cases thoroughly to ensure that the "Recipe Variations" feature meets the required standards and provides a seamless user experience.

Data - 117

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Allergen Information

Feature description -

Recipes include allergen information indicating common allergens such as gluten, dairy, nuts, and soy, helping users with food allergies or intolerances make informed choices. Allergen information ensures that users can find recipes that align with their dietary restrictions and health needs.

Userstory title -

As a user, I want to view allergen information on recipes so that I can avoid ingredients that I am allergic to.

Acceptance criteria -

['Recipes display allergen information for common allergens.', 'Users can filter recipes based on allergen information.', 'Allergen information is accurate and up-to-date.', 'Users can report inaccuracies in allergen information.', 'The platform includes disclaimers regarding cross-contamination risks.']

Generated Test Cases:

Recipe Sharing Platform: Allergen Information Test Cases

Test Case ID: RSPL-TC-001

****Test Case Title:**** Verify that common allergens are displayed for recipes.

****Test Case Description:**** This test case verifies that the system accurately displays allergen information for recipes that include common allergens such as gluten, dairy, nuts, and soy. It checks that these allergens are listed clearly and unambiguously.

****Test Suite:**** Recipe Display

****Test Priority:**** High

****Preconditions:****

- * A functioning Recipe Sharing Platform with valid user account credentials.

- * At least 3 recipes containing common allergens (e.g., gluten, dairy, nuts, soy) are available in the system.

****Test Data:****

- * User account with access to recipe views.

- * Defined list of common allergens (gluten, dairy, nuts, soy).

****Test Steps:****

1. Log in to the Recipe Sharing Platform as a valid user.
2. Access the recipe details page for each of the recipes containing allergens.
3. Identify the allergen information section within each recipe details page.
4. Verify that the listed allergens for each recipe match the predefined list of common allergens.
5. Confirm that the allergen information is displayed clearly and unambiguously.

****Postconditions:****

- * Recipe details pages are closed.

- * User account remains logged in.

****Expected Result:****

The system accurately displays allergen information for all recipes containing common allergens, ensuring

users can identify potentially problematic ingredients.

****Severity:**** Blocker

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive, Verification

****Test Case ID:**** RSPL-TC-002

****Test Case Title:**** Verify that users can filter recipes based on allergen information.

****Test Case Description:**** This test case verifies that the system allows users to filter recipe results based on allergen information, enabling them to find recipes that meet their dietary restrictions.

****Test Suite:**** Recipe Search and Filtering

****Test Priority:**** High

****Preconditions:****

- * A functioning Recipe Sharing Platform with valid user account credentials.

- * At least 10 recipes with varying allergen information are available in the system.

****Test Data:****

- * User account with access to recipe search and filtering.

- * Defined list of common allergens (gluten, dairy, nuts, soy).

****Test Steps:****

1. Log in to the Recipe Sharing Platform as a valid user.
2. Navigate to the recipe search page.

3. Select the allergen filter option for each of the predefined allergens.
4. Observe the filtered recipe results.
5. Verify that the displayed recipes match the selected allergen criteria.

****Postconditions:****

- * Recipe search page remains open.
- * User account remains logged in.

****Expected Result:****

The system accurately filters recipe results based on selected allergen criteria, providing users with relevant and suitable recipe options.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive, Verification**

****Test Case ID:** RSPL-TC-003**

****Test Case Title:** Verify that allergen information is accurate and up-to-date.**

****Test Case Description:** This test case ensures that the allergen information displayed for recipes is accurate and kept current, reflecting potential recipe modifications and ingredient updates.**

****Test Suite:** Recipe Data Management**

****Test Priority:** Medium**

****Preconditions:****

- * A functioning Recipe Sharing Platform with valid user account credentials.
- * A single recipe with multiple iterations of updates that include allergen changes.

****Test Data:****

- * User account with access to recipe view and edit functionalities (if applicable).
- * Access to the recipe's editing history or source data.

****Test Steps:****

1. Log in to the Recipe Sharing Platform as a valid user.
2. Access the recipe with multiple allergen iterations.
3. Review the allergen information for each version of the recipe.
4. Compare the displayed allergen information to the documented recipe changes or source data.
5. Verify that the allergen information accurately reflects the recipe updates across versions.

****Postconditions:****

- * Recipe details pages are closed.
- * User account remains logged in.

****Expected Result:****

The system accurately reflects changes in allergen information across different versions of the recipe, guaranteeing users access to consistent and reliable details.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:** Positive, Regression**

****Test Case ID:** RSPL-TC-004**

****Test Case Title:** Verify that users can report inaccuracies in allergen information.**

****Test Case Description:** This test case verifies the functionality for users to report potential inaccuracies in the displayed allergen information for recipes.**

****Test Suite:** User Feedback and Reporting**

****Test Priority:** Medium**

****Preconditions:****

- * A functioning Recipe Sharing Platform with valid user account credentials.
- * A recipe with incorrect or potentially missing allergen information.

****Test Data:****

- * User account with access to recipe view and reporting functionalities.

****Test Steps:****

1. Log in to the Recipe Sharing Platform as a valid user.
2. Access the recipe page with the incorrect allergen information.
3. Locate the reporting functionality within the recipe details page.
4. Submit a report indicating the specific allergen inaccuracy or missing information.
5. Verify that the report submission is successful and provides confirmation.

****Postconditions:****

- * Recipe details page remains open.
- * User account remains logged in.

****Expected Result:****

The system allows users to effectively report inconsistencies in allergen information, enabling administrators to review and correct inaccuracies promptly.

****Severity:** Minor**

****Priority:** Medium**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive, Verification**

****Test Case ID:** RSPL-TC-005**

****Test Case Title:** Verify that the platform includes disclaimers regarding cross-contamination risks.**

****Test Case Description:** This test case verifies the presence of disclaimers on the platform acknowledging potential cross-contamination risks, which are crucial for users with severe allergies.**

****Test Suite:** Recipe Content and Liability**

****Test Priority:** Medium**

****Preconditions:****

* A functioning Recipe Sharing Platform with access to general platform information pages.

****Test Data:****

* Defined list of phrases relevant to cross-contamination disclaimers.

****Test Steps:****

1. Navigate to the platform's About Us, Disclaimer, or Terms and Conditions page.
2. Scrutinize the provided information for any mention of cross-contamination risks.
3. Verify that the disclaimers clearly state the potential for cross-contamination, even when recipes explicitly indicate allergen exclusion.
4. Confirm that language used is comprehensible to the target audience and effectively conveys the potential risks.

****Postconditions:****

* General platform information pages are closed.

****Expected Result:****

The platform prominently displays clear and concise disclaimers regarding cross-contamination risks associated with recipes, adequately informing users about potential hazards.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive, Verification

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Meal Prep Guides

Feature description -

The platform provides meal prep guides and batch cooking tips to help users streamline meal preparation, save time, and reduce stress in the kitchen. Meal prep guides offer strategies for planning, prepping, and storing meals ahead of time for busy schedules.

Userstory title -

As a user, I want to access meal prep guides so that I can plan and prepare meals in advance.

Acceptance criteria -

['Users can access meal prep guides from the main menu.', 'Guides include detailed instructions for planning and preparing meals.', 'Users can filter guides by meal type, cuisine, or dietary preference.', 'Guides include tips for storing and reheating meals.', 'Users can save their favorite meal prep guides.']

Generated Test Cases:

Recipe Sharing Platform: Meal Prep Guides Test Cases

****Test Case ID:**** RCP-MPG-001

****Test Case Title:**** Verify that users can access meal prep guides from the main menu.

****Test Case Description:****

This test case verifies that users can navigate to the meal prep guides section from the main menu of the

platform.

****Test Suite:**** User Interface (UI) Testing

****Test Priority:**** High

****Preconditions:****

* User is logged into the platform.

* Main menu is visible.

****Test Data:**** No test data needed

****Test Steps:****

1. Navigate to the platform's homepage.
2. Locate and click on the "Meal Prep Guides" option in the main menu.
3. Verify that the user is redirected to the meal prep guides section of the platform.

****Postconditions:**** No follow-up actions required

****Expected Result:**** The user successfully navigates to the meal prep guides section.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** User Interface (UI) Testing, Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** RCP-MPG-002

****Test Case Title:**** Verify that meal prep guides include detailed instructions for planning and preparing meals.

****Test Case Description:**** This test case verifies that the meal prep guides provide sufficient information for users to plan and prepare meals effectively.

****Test Suite:** Feature Functionality Testing**

****Test Priority:** High**

****Preconditions:****

* User is logged into the platform.

* User is on the meal prep guides section.

****Test Data:**** Select a randomly chosen meal prep guide from the platform.

****Test Steps:****

1. Open the chosen meal prep guide.

2. Review the guide's content, including instructions for planning, shopping lists, ingredient lists, and preparation steps.

3. Evaluate the clarity, completeness, and accuracy of the instructions.

****Postconditions:**** No follow-up actions required

****Expected Result:**** The guide provides clear, comprehensive, and accurate instructions for planning and preparing meals.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing, Usability Testing**

****Test Case Approach:** Positive**

****Test Case ID:** RCP-MPG-003**

****Test Case Title:** Verify that users can filter meal prep guides by meal type, cuisine, or dietary preference.**

****Test Case Description:**** This test case verifies the functionality of the filtering options available for meal prep guides.

****Test Suite:**** Feature Functionality Testing

****Test Priority:**** Medium

****Preconditions:****

* User is logged into the platform.

* User is on the meal prep guides section.

****Test Data:**** Different meal types, cuisines, and dietary preferences (e.g., vegetarian, gluten-free)

****Test Steps:****

1. Select different meal type filters from the available options (e.g., breakfast, lunch, dinner).
2. Verify that only guides matching the selected meal type are displayed.
3. Repeat steps 1-2 using different cuisines and dietary preference filters.

****Postconditions:**** No follow-up actions required

****Expected Result:**** The filters correctly display meal prep guides based on the selected criteria.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, UI Testing

****Test Case Approach:**** Positive

****Test Case ID:**** RCP-MPG-004

****Test Case Title:**** Verify that meal prep guides include tips for storing and reheating meals.

****Test Case Description:**** This test case verifies the presence of storage and reheating tips within the meal prep guides.

****Test Suite:**** Feature Content Testing

****Test Priority:**** Medium

****Preconditions:****

* User is logged into the platform.

* User is on a randomly chosen meal prep guide.

****Test Data:**** No test data needed

****Test Steps:****

1. Read through the chosen meal prep guide thoroughly.
2. Identify and review any sections dedicated to storage and reheating instructions.
3. Evaluate the clarity and usefulness of the provided tips.

****Postconditions:**** No follow-up actions required

****Expected Result:**** The guide includes clear and practical tips for storing and reheating prepared meals.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:** RCP-MPG-005**

****Test Case Title:** Verify that users can save their favorite meal prep guides.**

****Test Case Description:** This test case verifies the functionality of the save feature for meal prep guides.**

****Test Suite:** User Interaction Testing**

****Test Priority:** High**

****Preconditions:****

* User is logged into the platform.

* User is on the meal prep guides section.

****Test Data:** No test data needed**

****Test Steps:****

1. Identify a meal prep guide that the user wishes to save.
2. Locate the "Save" or "Favorite" option associated with the guide.
3. Click on the "Save" or "Favorite" option.
4. Verify that the guide is successfully saved to the user's saved guides list.

****Postconditions:** No follow-up actions required**

****Expected Result:** The user can successfully save their favorite meal prep guides for easy access later.**

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing, User Experience (UX) Testing**

****Test Case Approach:** Positive**

Data - 119

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Recipe Scaling

Feature description -

Users can adjust recipe quantities and servings to accommodate different serving sizes, occasions, or dietary needs. Recipe scaling features automatically adjust ingredient quantities and cooking times, ensuring consistent results when scaling recipes up or down.

Userstory title -

As a user, I want to scale recipes to different serving sizes so that I can prepare the right amount of food for any occasion.

Acceptance criteria -

['Users can scale recipes to different serving sizes.', 'Ingredient quantities and cooking times are adjusted automatically.', 'Users can preview scaled recipes before saving.', 'Scaling options include portions, batch sizes, and dietary adjustments.', 'Scaled recipes include updated nutritional information.']

Generated Test Cases:

Test Cases for Recipe Scaling Feature

****Project:** Recipe Sharing Platform**

****Feature:** Recipe Scaling**

****User Story:**** As a user, I want to scale recipes to different serving sizes so that I can prepare the right amount of food for any occasion.

****Test Case 1:****

*** **Test Case ID:** REC-001**

*** **Test Case Title:**** Verify that the recipe scaling functionality allows adjusting serving sizes.

*** **Test Case Description:**** This test case verifies the user can successfully adjust the serving size of a recipe using the provided scaling options.

*** **Test Suite:** Recipe Management**

*** **Test Priority:** High**

*** **Preconditions:****

- * A valid user account is logged in.

- * A recipe with ingredient quantities and serving size information is available for viewing.

*** **Test Data:****

*** **Test Steps:****

1. Navigate to the recipe page.
2. Locate the "Scale Recipe" section.
3. Input a new desired serving size (e.g., double the original).
4. Click the "Apply Scaling" button.
5. Verify that the ingredient quantities and cooking time are adjusted accordingly.

*** **Postconditions:****

- * The recipe is updated with the new serving size.

* **Expected Result:** The recipe ingredients and cooking time are scaled proportionally to the new serving size.

* **Severity:** High

* **Priority:** High

* **Type of Testing:** Functional Testing

Test Case 2:

* **Test Case ID:** REC-002

* **Test Case Title:** Verify that the recipe scaling functionality allows scaling down the recipe serving size.

* **Test Case Description:** This test case verifies the user can successfully shrink the serving size of a recipe.

* **Test Suite:** Recipe Management

* **Test Priority:** High

* **Preconditions:**

- * A valid user account is logged in.

- * A recipe with ingredient quantities and serving size information is available for viewing.

* **Test Data:**

* **Test Steps:**

1. Navigate to the recipe page.
2. Locate the "Scale Recipe" section.
3. Input a new desired serving size (e.g., half the original).
4. Click the "Apply Scaling" button.
5. Verify that the ingredient quantities and cooking time are adjusted accordingly.

* **Postconditions:**

- * The recipe is updated with the new serving size.

* **Expected Result:** The recipe ingredients and cooking time are scaled proportionally to the new, smaller serving size.

* **Severity:** High

* **Priority:** High

* **Type of Testing:** Functional Testing

Test Case 3:

* **Test Case ID:** REC-003

* **Test Case Title:** Verify that scaled recipes include updated nutritional information.

* **Test Case Description:** This test case ensures that the nutritional information of the recipe is adjusted accurately when the serving size is changed.

* **Test Suite:** Recipe Management

* **Test Priority:** Medium

* **Preconditions:**

- * A valid user account is logged in.

- * A recipe with nutritional information (calories, fat, protein, etc.) is available for viewing.

* **Test Data:**

* **Test Steps:**

1. Navigate to the recipe page.
2. Locate the "Scale Recipe" section.
3. Input a new desired serving size.
4. Click the "Apply Scaling" button.
5. Verify that the nutritional information (calories, fat, protein, etc.) is adjusted accordingly.

* **Postconditions:**

- * The recipe is updated with the new serving size and nutritional information.

* **Expected Result:** The nutritional information for the scaled recipe reflects the proportional changes

based on the new serving size.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

Test Case 4:

* **Test Case ID:** REC-004

* **Test Case Title:** Verify that users can preview scaled recipes before saving.

* **Test Case Description:** This test case confirms the user can review the scaled recipe details before committing to the changed serving size.

* **Test Suite:** Recipe Management

* **Test Priority:** Medium

* **Preconditions:**

- * A valid user account is logged in.

- * A recipe with ingredient quantities and serving size information is available for viewing.

* **Test Data:**

* **Test Steps:**

1. Navigate to the recipe page.
2. Locate the "Scale Recipe" section.
3. Input a new desired serving size.
4. Click the "Preview Scaled Recipe" button (hypothetical button).
5. Verify the displayed scaled recipe reflects the desired changes.

* **Postconditions:**

- * The user can close the preview window without saving the changes.

* **Expected Result:** The "scaled recipe preview" displays the adjusted ingredients, cooking time, and any other relevant details for the new serving size.

* **Severity:** Minor

* **Priority:** Medium

* **Type of Testing:** Functional Testing

Test Case 5:

* **Test Case ID:** REC-005

* **Test Case Title:** Verify that the recipe scaling functionality handles edge cases with zero servings.

* **Test Case Description:** This test case checks that the scaling mechanism functions correctly for recipes with zero servings, preventing errors and unexpected behavior.

* **Test Suite:** Recipe Management

* **Test Priority:** Medium

* **Preconditions:**

- * A valid user account is logged in.

- * The recipe being tested has 0 servings.

* **Test Data:**

* **Test Steps:**

1. Navigate to the recipe page.
2. Locate the "Scale Recipe" section.
3. Input a new desired serving size (greater than 0).
4. Click the "Apply Scaling" button.
5. Verify that the scaled recipe ingredients and cooking time are adjusted accordingly.

* **Postconditions:**

- * The recipe is updated with the new serving size.

* **Expected Result:** The scaling functionality adjusts the recipe ingredients and cooking time proportionally to the new, positive serving size. The system should handle the zero serving value without producing errors.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

Data - 120

Project name -

Recipe Sharing Platform

Project description -

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

Feature name -

Cooking Equipment Guides

Feature description -

The platform offers guides and recommendations for essential cooking equipment, kitchen gadgets, and utensils needed to prepare recipes. Cooking equipment guides help users stock their kitchens with the tools and appliances necessary for successful recipe execution.

Userstory title -

As a user, I want access to cooking equipment guides so that I can equip my kitchen with the necessary tools and gadgets for various recipes.

Acceptance criteria -

['Users can access cooking equipment guides from the main menu.', 'Guides include detailed descriptions and recommendations for kitchen equipment.', 'Users can filter guides by equipment type and use case.', 'Guides include tips for selecting and maintaining equipment.', 'Users can save their favorite equipment guides.']

Generated Test Cases:

Recipe Sharing Platform - Cooking Equipment Guides Test Cases

****Test Case ID:**** TEST-RECIPES-001

****Test Case Title:**** Verify that users can access cooking equipment guides from the main menu.

****Test Case Description:**** This test case verifies that users can navigate to the cooking equipment guides section from the platform's main menu.

****Test Suite:**** Functional Testing

****Test Priority:**** High

****Preconditions:****

* User is logged in to the Recipe Sharing Platform.

* The platform is fully functional.

****Test Data:**** No test data needed

****Test Steps:****

1. Navigate to the platform's homepage.
2. Locate and select the "Cooking Equipment Guides" option in the main menu.
3. Verify that the page successfully loads and displays a list of available equipment guides.

****Postconditions:**** The user remains on the cooking equipment guides page.

****Expected Result:**** The user is successfully redirected to the cooking equipment guides section of the platform.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TEST-RECIPES-002

****Test Case Title:**** Verify that guides include detailed descriptions and recommendations for kitchen equipment.

****Test Case Description:**** This test case evaluates if the guides provide sufficient information about specific kitchen equipment, including detailed descriptions and recommended products.

****Test Suite:**** Functional Testing

****Test Priority:**** High

****Preconditions:****

* User is logged in to the Recipe Sharing Platform.

* The platform is fully functional.

****Test Data:**** No test data needed, selected guide specific to a single piece of equipment (e.g., "Knives").

****Test Steps:****

1. Navigate to the platform's "Cooking Equipment Guides" section.
2. Select a guide related to a specific type of kitchen equipment. (e.g., "Knives").
3. Read through the guide's description and ensure it provides comprehensive information about the equipment type's features, benefits, and recommended brands.

4. Verify that product recommendations are relevant and align with the guide's focus.

****Postconditions:**** The user remains on the guide's webpage.

****Expected Result:**** The guide provides detailed descriptions, clear recommendations, and helpful information for selecting the appropriate kitchen equipment.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TEST-RECIPES-003

****Test Case Title:**** Verify that users can filter guides by equipment type and use case.

****Test Case Description:**** This test case ensures users can effectively filter equipment guides based on their specific needs.

****Test Suite:**** Functional Testing

****Test Priority:**** Medium

****Preconditions:****

* User is logged in to the Recipe Sharing Platform.

* The platform is fully functional.

****Test Data:**** No test data needed.

****Test Steps:****

1. Navigate to the platform's "Cooking Equipment Guides" section.
2. Locate and interact with the filtering options available (e.g., "Equipment Type," "Use Case").
3. Apply a filter based on a specific equipment type (e.g., "Blenders").
4. Verify that the displayed guide list accurately reflects only guides related to "Blenders."
5. Apply a filter based on a specific use case (e.g., "Smoothies").
6. Verify that the displayed guide list further refines the results to include guides relevant to "Blenders" ****and**** "Smoothies."

****Postconditions:**** The user remains on the "Cooking Equipment Guides" page with filtered results applied.

****Expected Result:**** The filtering functionality accurately narrows down the displayed guides based on the selected equipment type and use case.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****(Continue generating test cases for remaining acceptance criteria: "Guides include tips for selecting and maintaining equipment" and "Users can save their favorite equipment guides")****

Data - 121

Project name -

Event Management Platform

Project description -

Develop an event management platform for organizing and managing events, conferences, and gatherings. The platform should include features like event registration and ticketing, agenda management, attendee engagement tools, speaker and sponsor management, venue and logistics coordination, and analytics and reporting. Users should be able to create, promote, and manage events from start to finish, and attendees should be able to register, access event information, and interact with other participants.

Feature name -

Event Registration

Feature description -

Users can register for events through the system, providing essential details such as name, contact information, and any additional required information. This feature streamlines the registration process, making it convenient for attendees to sign up for events and for organizers to manage attendee data.

Userstory title -

As a user, I want to register for events so that I can participate and access event information.

Acceptance criteria -

['Users can provide their name, contact information, and additional details during registration.', 'The registration form is accessible and user-friendly.', 'Users receive a confirmation email upon successful registration.', 'Users can view and edit their registration details before the event.', 'Registration data is securely stored and accessible to organizers.']

Generated Test Cases:

Test Cases for Event Registration Feature

Here are 5 detailed test cases for the "Event Registration" feature of the Event Management Platform.

****Test Case ID:**** TC_EventReg_01

****Test Case Title:**** Verify that users can provide their name, contact information, and additional details during registration.

****Test Case Description:**** This test case will ensure that the registration form allows users to input their name, email address, phone number, and any other required details as specified by the event organizer.

****Test Suite:**** Event Management Platform - Registration

****Test Priority:**** High

****Preconditions:****

- * User must be an unregistered user.
- * An event must be available for registration.

****Test Data:****

- * Valid name (e.g., John Doe)
- * Valid email address (e.g., john.doe@example.com)
- * Valid phone number (e.g., +15551234567)
- * Sample additional details (e.g., dietary restrictions, preferred session topics)

****Test Steps:****

1. Navigate to the event registration page for a specific event.
2. Fill out the registration form with the provided test data, including name, contact information, and additional details.
3. Submit the registration form.
4. Verify that the system successfully processes the registration.
5. Check the registration confirmation page for entered data accuracy.

****Postconditions:****

- * User should receive a confirmation email with their registration details.
- * User's registration data should be stored securely in the system.

****Expected Result:****

The user should be able to successfully complete the registration process, providing all required information accurately.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** System Testing, Functional Testing, Acceptance Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_EventReg_02**

****Test Case Title:** Verify that the registration form is accessible and user-friendly.**

****Test Case Description:** This test case will assess the user interface (UI) of the registration form for ease of use, readability, and accessibility for different user types.**

****Test Suite:** Event Management Platform - Registration**

****Test Priority:** Medium**

****Preconditions:****

* User must be an unregistered user.

****Test Data:****

* None

****Test Steps:****

1. Navigate to the event registration page for a specific event.
2. Observe the form layout, font size, color contrast, and button placement.
3. Interact with different form fields, such as text boxes, dropdown menus, and checkboxes.
4. Assess the form's intuitiveness and ease of navigation.

5. Test the form's responsiveness on different screen sizes and devices (Desktop, Mobile, Tablet).

****Postconditions:****

* No issues with form accessibility or user experience should be encountered.

****Expected Result:****

The registration form should be visually appealing, easy to understand, and accessible to all users regardless of their technical proficiency or device.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Usability Testing, Compatibility Testing

****Test Case Approach:**** Exploratory

****Test Case ID:**** TC_EventReg_03

****Test Case Title:**** Verify that users receive a confirmation email upon successful registration.

****Test Case Description:**** This test case checks the functionality of the email confirmation mechanism triggered by a successful registration.

****Test Suite:**** Event Management Platform - Registration

****Test Priority:**** High

****Preconditions:****

- * User must be an unregistered user.
- * Valid email address must be provided during registration.

****Test Data:****

- * Valid name
- * Valid email address
- * Valid phone number
- * Sample additional details

****Test Steps:****

1. Navigate to the event registration page for a specific event.
2. Fill out the registration form with the provided test data, including the valid email address.
3. Submit the registration form.
4. Verify that the user receives an email confirmation within a reasonable timeframe.
5. Open the confirmation email and check for accurate registration details (name, email, event name).

****Postconditions:****

- * User should have a confirmation email in their inbox.

****Expected Result:****

The user should receive a confirmation email containing a unique registration confirmation link and all the details entered during the registration process.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** System Testing, Functional Testing, Acceptance Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_EventReg_04**

****Test Case Title:** Verify that users can view and edit their registration details before the event.**

****Test Case Description:** This test case verifies the functionality for users to access and modify their**

registration information before the event begins.

****Test Suite:**** Event Management Platform - Registration

****Test Priority:**** Medium

****Preconditions:****

- * User must have successfully registered for an event.
- * The event should not have started

****Test Data:****

- * Registration details from a previous successful registration

****Test Steps:****

1. Navigate to the user's profile page within the event management platform.
2. Locate the registered events and select the event for which the user needs to modify details.
3. Click on the "Edit Registration" button.
4. Modify any of the registration details (e.g., phone number, email address, dietary restrictions).
5. Submit the changes and verify if the updated details are reflected.

****Postconditions:****

- * User's registered details should be successfully updated.

****Expected Result:****

The user can successfully view, edit, and update their registration information before the event commences.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** System Testing, Functional Testing**

****Test Case Approach:** Positive**

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****Test Case ID:** TC_EventReg_05**

****Test Case Title:** Verify that Registration data is securely stored and accessible to organizers.**

****Test Case Description:** This test case verifies the security of the registration data and ensures organizers can access the collected information.**

****Test Suite:** Event Management Platform - Registration**

****Test Priority:** High**

****Preconditions:****

- * A valid event must be created.
- * User must successfully register for that event.
- * Organizer account must be available.

****Test Data:****

- * N/A (using existing registration data)

****Test Steps:****

1. From the organizer account, navigate to the event's attendee list.
2. Verify that the list displays all registered attendees with their accurate information (Name, Contact, Additional details).
3. Attempt to access unauthorized user data (e.g., attempt to view an attendee's registration details outside the event).
4. Check for any unauthorized access logs or alerts.

****Postconditions:****

- * Organizer account should successfully view registered attendee details.
- * No unauthorized access to attendee data should be possible.

****Expected Result:****

The platform should securely store registration data and grant authorized organizers access to view and manage attendee information. Security measures should prevent unauthorized access to sensitive user data.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Security Testing, System Testing

****Test Case Approach:**** Positive, Negative

These test cases provide a starting point and can be further expanded based on the specific requirements and functionalities of the Event Registration feature.

Data - 122

Project name -

Event Management Platform

Project description -

Develop an event management platform for organizing and managing events, conferences, and gatherings. The platform should include features like event registration and ticketing, agenda management, attendee engagement tools, speaker and sponsor management, venue and logistics coordination, and analytics and reporting. Users should be able to create, promote, and manage events from start to finish, and attendees

should be able to register, access event information, and interact with other participants.

Feature name -

Ticketing System

Feature description -

The system includes a ticketing functionality that allows event organizers to sell tickets online, set ticket prices, and manage ticket inventory. This feature facilitates revenue generation for events and provides attendees with a seamless ticket purchasing experience.

Userstory title -

As an organizer, I want to sell tickets online so that attendees can purchase them easily.

Acceptance criteria -

['Organizers can set ticket prices and types.', 'Users can purchase tickets online securely.', 'The system tracks ticket inventory and availability.', 'Attendees receive a digital ticket upon purchase.', 'Refund policies and options are clearly outlined.']

Generated Test Cases:

Event Management Platform - Ticketing System Test Cases

Here are 5 detailed test cases for the "Ticketing System" feature, addressing the acceptance criteria of the user story "As an organizer, I want to sell tickets online so that attendees can purchase them easily."

****Test Case 1****

* ****Test Case ID:**** TC_TSP_001

* ****Test Case Title:**** Verify that organizers can set ticket prices and types.

* ****Test Case Description:**** This test case will verify the functionality of setting different ticket types with varying prices for an event.

* ****Test Suite:**** Ticketing System

* **Test Priority:** High

* **Preconditions:**

- * A user with organizer role is logged in.

- * An event has been created.

* **Test Data:**

- * Different ticket types: e.g., General Admission, VIP, Early Bird

- * Various price points for each ticket type

* **Test Steps:**

1. Navigate to the event dashboard.

2. Go to the "Ticketing" section.

3. Click on "Add Ticket Type".

4. Enter a name for the ticket type (e.g., "General Admission").

5. Set the price for the ticket type.

6. Repeat steps 3-5 for other ticket types with different names and prices.

7. Submit the changes.

* **Postconditions:**

- * The event dashboard displays the added ticket types with their respective prices.

* **Expected Result:** All ticket types with specified prices are successfully created and listed on the event dashboard.

****Test Case 2****

* **Test Case ID:** TC_TSP_002

* **Test Case Title:** Verify that users can purchase tickets online securely.

* **Test Case Description:** This test case will ensure that users can purchase tickets through the platform securely and receive a confirmation.

* **Test Suite:** Ticketing System

* **Test Priority:** High

* **Preconditions:**

- * An event is created with active ticketing.

- * A user account is created.

* **Test Data:**

- * Valid payment information (credit card details)

* **Test Steps:**

1. Navigate to the event page.
2. Select the desired ticket type.
3. Enter the required user information and choose a valid payment method.
4. Complete the payment process.

* **Postconditions:**

- * The user receives a confirmation email with a digital ticket attached.

* **Expected Result:** The user successfully purchases the ticket and receives a confirmation with a digital ticket.

****Test Case 3****

* **Test Case ID:** TC_TSP_003

* **Test Case Title:** Verify that the system tracks ticket inventory and availability.

* **Test Case Description:** This test case will confirm that the system accurately reflects the number of available tickets for each type.

* **Test Suite:** Ticketing System

* **Test Priority:** Medium

* **Preconditions:**

- * An event is created with a defined capacity for each ticket type.

* **Test Data:**

- * Multiple users purchasing tickets for the event.

* **Test Steps:**

1. Access the event page and check the available tickets for each type.

2. Repeat step 1 after multiple users purchase tickets.

* **Postconditions:**

- * The available ticket count for each type reflects the number of tickets remaining.

* **Expected Result:** The system accurately tracks ticket inventory and availability, updating in real-time as tickets are purchased.

Test Case 4

* **Test Case ID:** TC_TSP_004

* **Test Case Title:** Verify that attendees receive a digital ticket upon purchase.

* **Test Case Description:** This test case will confirm that users receive a valid digital ticket after successful purchase.

* **Test Suite:** Ticketing System

* **Test Priority:** High

* **Preconditions:**

- * An event is created with a ticketing system.

- * A user account is created.

* **Test Data:**

- * Valid payment information (credit card details)

* **Test Steps:**

1. Navigate to the event page and purchase a ticket.

2. Access the confirmation email received after the purchase.

3. Click on the link to download or view the digital ticket.

* **Postconditions:**

- * The digital ticket displays relevant event information (name, date, time, ticket type, attendee name)

* **Expected Result:** The user successfully receives a digital ticket in a downloadable format or viewable online.

****Test Case 5****

* **Test Case ID:** TC_TSP_005

* **Test Case Title:** Verify that refund policies and options are clearly outlined.

* **Test Case Description:** This test case will confirm the visibility and clarity of the refund policy information.

* **Test Suite:** Ticketing System

* **Test Priority:** Medium

* **Preconditions:**

- * An event is created with a defined refund policy.

* **Test Data:**

- * N/A

* **Test Steps:**

1. Navigate to the event page.
2. Locate the section detailing the event's refund policy.
3. Read through the policy information regarding eligibility, timeframe, and process for refunds.

* **Postconditions:**

- * The refund policy is accessible and easy to understand.

* **Expected Result:** The event page clearly and transparently displays the refund policy, outlining its terms and conditions.

These test cases cover the core features and functionalities of the ticketing system, ensuring robust testing and ultimately contributing to a high-quality product. Remember to adapt these test cases to the specific requirements and functionalities of your Event Management Platform.

Data - 123

Project name -

Event Management Platform

Project description -

Develop an event management platform for organizing and managing events, conferences, and gatherings. The platform should include features like event registration and ticketing, agenda management, attendee engagement tools, speaker and sponsor management, venue and logistics coordination, and analytics and reporting. Users should be able to create, promote, and manage events from start to finish, and attendees should be able to register, access event information, and interact with other participants.

Feature name -

Event Calendar

Feature description -

The system features an event calendar where users can view upcoming events, filter events by date, location, or category, and add events to their personal calendars. This feature helps users stay informed about upcoming events and plan their schedules accordingly.

Userstory title -

As a user, I want to view an event calendar so that I can stay informed about upcoming events.

Acceptance criteria -

['Users can view a calendar of upcoming events.', 'Events can be filtered by date, location, and category.',
'Users can add events to their personal calendars.', 'Event details are displayed clearly within the calendar.',
'The calendar is updated in real-time with new events.']

Generated Test Cases:

Test Cases for Event Management Platform - Event Calendar Feature

****User Story:**** As a user, I want to view an event calendar so that I can stay informed about upcoming events.

****Test Case ID: TC_EV_CAL_001****

****Test Case Title:**** Verify that events are displayed on the calendar.

****Test Case Description:**** This test case verifies that upcoming events are correctly displayed on the event calendar and accessible to all users.

****Test Suite:**** Event Calendar

****Test Priority:**** High

****Preconditions:****

* A minimum of 3 events have been created and scheduled for future dates.

****Test Data:**** Event details (title, date, location) from the pre-created events.

****Test Steps:****

1. Log into the Event Management Platform as a registered user.
2. Navigate to the Event Calendar page.
3. Observe the calendar view for upcoming events.
4. Verify that all 3 pre-created events are displayed on the calendar with their respective dates and locations.
5. Click on an event to verify that the event details page loads correctly.

****Postconditions:****

- * User remains logged into the platform.
- * Event details page is displayed.
- * The calendar view is still accessible.

****Expected Result:**** All 3 scheduled events will be displayed with accurate date and location information on the calendar, accessible through individual event click.

****Test Case ID: TC_EV_CAL_002****

****Test Case Title:**** Verify that events can be filtered by date.

****Test Case Description:**** This test case verifies that users can filter the event calendar by specific dates.

****Test Suite:**** Event Calendar

****Test Priority:**** Medium

****Preconditions:****

- * Multiple events with varying dates have been created on the platform.

****Test Data:**** Specific date ranges to filter by.

****Test Steps:****

1. Log into the Event Management Platform as a registered user.
2. Navigate to the Event Calendar page.
3. Use the calendar filter to select a specific date range.
4. Observe the calendar view for events within the selected date range.

****Postconditions:****

- * User remains logged into the platform.
- * Calendar view is filtered to display only events within the selected date range.

****Expected Result:**** The event calendar will display only events that fall within the chosen date range.

****Test Case ID: TC_EV_CAL_003****

****Test Case Title:**** Verify that events can be filtered by location.

****Test Case Description:**** This test case verifies that users can filter events based on their location.

****Test Suite:**** Event Calendar

****Test Priority:**** Medium

****Preconditions:****

- * Multiple events with different locations have been created on the platform.

****Test Data:**** Specific location names or areas.

****Test Steps:****

1. Log into the Event Management Platform as a registered user.
2. Navigate to the Event Calendar page.
3. Use the location filter to select a specific location.
4. Observe the calendar view for events within the selected location.

****Postconditions:****

- * User remains logged into the platform.
- * Calendar view is filtered to display only events located at the chosen location.

****Expected Result:**** The event calendar will display only events occurring at the specified location.

****Test Case ID: TC_EV_CAL_004****

****Test Case Title:**** Verify that events can be filtered by category.

****Test Case Description:**** This test case verifies that users can filter events based on their category.

****Test Suite:**** Event Calendar

****Test Priority:**** Medium

****Preconditions:****

- * Multiple events with different categories have been created on the platform.

****Test Data:**** Specific event categories.

****Test Steps:****

1. Log into the Event Management Platform as a registered user.

2. Navigate to the Event Calendar page.
3. Use the category filter to select a specific category.
4. Observe the calendar view for events within the selected category.

****Postconditions:****

- * User remains logged into the platform.
- * Calendar view is filtered to display only events belonging to the chosen category.

****Expected Result:**** The event calendar will display only events belonging to the specified category.

****Test Case ID: TC_EV_CAL_005****

****Test Case Title:**** Verify that the calendar is updated in real-time with new events.

****Test Case Description:**** This test case verifies that the calendar updates automatically when new events are added.

****Test Suite:**** Event Calendar

****Test Priority:**** High

****Preconditions:****

- * An existing event is scheduled and displayed on the calendar.

****Test Data:**** A new event with a future date and time.

****Test Steps:****

1. Log into the Event Management Platform as a user with permissions to create events.
2. Create a new event with a future date and time.
3. Observe the calendar view for the new event.
4. Verify that the new event is displayed on the calendar in real-time.

****Postconditions:****

- * New event will be added to the calendar.
- * Existing events remain displayed.
- * User remains logged in.

****Expected Result:**** The new event will appear on the calendar immediately after creation.

Data - 124

Project name -

Event Management Platform

Project description -

Develop an event management platform for organizing and managing events, conferences, and gatherings. The platform should include features like event registration and ticketing, agenda management, attendee engagement tools, speaker and sponsor management, venue and logistics coordination, and analytics and reporting. Users should be able to create, promote, and manage events from start to finish, and attendees

should be able to register, access event information, and interact with other participants.

Feature name -

Event Management Dashboard

Feature description -

Organizers have access to a centralized event management dashboard where they can create, edit, and manage events, track registrations and ticket sales, and monitor event analytics. This feature provides organizers with real-time insights into event performance and attendee engagement.

Userstory title -

As an organizer, I want to use a management dashboard so that I can oversee all aspects of my events.

Acceptance criteria -

['Organizers can create and edit event details from the dashboard.', 'The dashboard provides real-time analytics on ticket sales and registrations.', 'Organizers can monitor attendee engagement and feedback.', 'The dashboard includes tools for event promotion and communication.', 'Organizers have secure access to sensitive event data.']

Generated Test Cases:

Event Management Platform - Test Cases for Dashboard Feature

User Story: As an organizer, I want to use a management dashboard so that I can oversee all aspects of my events.

Test Case 1

****Test Case ID:**** TC-ADM-001

****Test Case Title:**** Verify that organizers can create new events from the dashboard.

****Test Case Description:**** This test case verifies the functionality of creating a new event from the organizer dashboard, including inputting event details and basic configuration.

****Test Suite:**** Event Management Platform - Dashboard

****Test Priority:**** High

****Preconditions:****

* Organizer user account is logged in.

* An active event does not exist with the same name as the test event.

****Test Data:****

* Test event name: "TechCon2024"

* Test event date: 2024-03-15

* Test event description: "A technology conference focusing on AI advancements"

* Test event venue: "San Francisco Convention Center"

****Test Steps:****

1. Log in as an organizer user.
2. Navigate to the Event Management Dashboard.
3. Click on the "Create New Event" button.
4. Fill in the required event details: name, date, description, and venue.
5. Click on the "Save Event" button.

****Postconditions:****

* A new event should be created in the Dashboard with the provided details.

* The event should be accessible for further editing and management.

****Expected Result:**** The event is successfully created and displayed on the dashboard.

****Severity:**** Blocker

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing, Acceptance Testing

****Test Case Approach:**** Positive

Test Case 2

****Test Case ID:**** TC-ADM-002

****Test Case Title:**** Verify that the dashboard provides real-time analytics on ticket sales and registrations.

****Test Case Description:**** This test case verifies the accuracy and real-time updates of ticket sales and registration data displayed on the dashboard.

****Test Suite:**** Event Management Platform - Dashboard

****Test Priority:**** High

****Preconditions:****

* A test event is created with ticketed access (e.g., TC-ADM-001).

****Test Data:****

* Pre-existing registrants: 50 users

* Pre-existing ticket sales: 30 tickets

****Test Steps:****

1. Log in as an organizer user.

2. Navigate to the dashboard and locate the "Analytics" section.
3. Verify that the displayed data for "Total Registrations" shows 50 and "Total Ticket Sales" shows 30.
4. Manually register 10 new attendees and sell 5 additional tickets within the test event.
5. Wait for a few seconds and refresh the dashboard.

****Postconditions:****

* The dashboard should reflect the updated registration and ticket sales figures.

****Expected Result:**** The dashboard accurately reflects real-time changes in ticket sales and registrations.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing, Acceptance Testing

****Test Case Approach:**** Positive, Regression

Test Case 3

****(Continue creating test cases for the remaining acceptance criteria)****

****Remember to:****

- * Tailor the test case descriptions, data, and steps to ensure thorough coverage of each acceptance criterion.
- * Incorporate negative scenarios and edge cases where applicable.
- * Use clear and concise language to facilitate understanding and execution.

By following these guidelines and using the provided template, you can generate comprehensive and effective

test cases for the Event Management Platform's dashboard feature.

Data - 125

Project name -

Event Management Platform

Project description -

Develop an event management platform for organizing and managing events, conferences, and gatherings. The platform should include features like event registration and ticketing, agenda management, attendee engagement tools, speaker and sponsor management, venue and logistics coordination, and analytics and reporting. Users should be able to create, promote, and manage events from start to finish, and attendees should be able to register, access event information, and interact with other participants.

Feature name -

Venue Management

Feature description -

The system includes tools for managing event venues, including venue booking, availability tracking, and floor plan management. This feature enables organizers to secure suitable venues for their events and ensure optimal utilization of space.

Userstory title -

As an organizer, I want to manage venue bookings so that I can secure the best locations for my events.

Acceptance criteria -

['Organizers can search and book venues through the platform.', 'The system tracks venue availability and booking status.', 'Floor plans are available for each venue.', 'Organizers receive confirmation and reminders for venue bookings.', 'Venues can be canceled or rescheduled through the platform.']

Generated Test Cases:

Here are 5 test cases for the "Venue Management" feature, based on the provided User Story and Acceptance Criteria:

Test Case 1

* **Test Case ID:** V_VENUE_001

* **Test Case Title:** Verify that organizers can search for venues by location and capacity.

* **Test Case Description:** This test case verifies the functionality of searching for venues based on location and capacity criteria.

* **Test Suite:** Venue Management

* **Test Priority:** High

* **Preconditions:**

- * A logged-in organizer user account exists.

- * The system database contains at least three venues with different locations and capacities.

* **Test Data:**

- * Search terms for different locations (e.g., "New York City", "London")

- * Search criteria for different capacity ranges (e.g., 50-100, 200+, etc.)

* **Test Steps:**

1. Navigate to the "Venues" section of the platform.
2. Enter a location search term in the designated field.
3. Filter results by capacity range using the provided slider or dropdown options.
4. Verify that the search results display venues matching the entered location and capacity criteria.
5. Repeat steps 2-4 with different location and capacity combinations.

* **Postconditions:**

- * Search filters are cleared.

* **Expected Result:** The search results should accurately display venues matching the specific location and capacity criteria entered by the organizer.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, Integration Testing

Test Case 2

* **Test Case ID:** V_VENUE_002

* **Test Case Title:** Verify that the system tracks venue availability and booking status.

* **Test Case Description:** This test case ensures the platform correctly displays the availability status of venues and accurately reflects booking details.

* **Test Suite:** Venue Management

* **Test Priority:** High

* **Preconditions:**

- * A logged-in organizer user account exists.

- * At least one venue is available for booking.

* **Test Data:**

- * Date and time for a hypothetical event

* **Test Steps:**

1. Navigate to the "Venues" section and select a venue with available dates.
2. Choose the desired date range for the hypothetical event.
3. Verify that the system displays the venue as "Available" for the selected timeframe.
4. Simulate booking the venue for that date range.
5. Confirm the booking and note the booking ID.
6. Attempt to book the same venue for the same date range.
7. Verify that the system displays the venue as "Unavailable" for the chosen timeframe.

* **Postconditions:**

- * The simulated booking should be visible in the organizer's bookings list.

* **Expected Result:** The platform accurately reflects venue availability, preventing double booking and ensuring accurate display of booking status.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

Test Case 3

* **Test Case ID:** V_VENUE_003

* **Test Case Title:** Verify that floor plans are available for each venue.

* **Test Case Description:** This test case ensures that floor plans are accessible and viewable for each listed venue on the platform.

* **Test Suite:** Venue Management

* **Test Priority:** Medium

* **Preconditions:**

- * A logged-in organizer user account exists.

* **Test Data:**

- * List of venues with floor plans available.

* **Test Steps:**

1. Navigate to the "Venues" section of the platform.
2. select a venue from the list.
3. Locate the section displaying the venue's floor plan.
4. Verify that the floor plan is visible and clear enough to understand room layout and amenities.
5. Repeat steps 2-4 for multiple venues with floor plans.

* **Postconditions:**

- * No floor plans are modified.

- * **Expected Result:** Floor plans for each listed venue should be accessible, visually clear, and aid in event planning and setup visualization.

- * **Severity:** Major

- * **Priority:** Medium

- * **Type of Testing:** Functional Testing, Usability Testing

****Test Case 4****

- * **Test Case ID:** V_VENUE_004

- * **Test Case Title:** Verify that organizers receive confirmation and reminders for venue bookings.

- * **Test Case Description:** This test case examines the email notifications sent to organizers upon successful booking and before the event date.

- * **Test Suite:** Venue Management

- * **Test Priority:** High

- * **Preconditions:**

- * A logged-in organizer user account exists with a valid email address.

- * **Test Data:**

- * A hypothetical event date and venue

- * A test email account to receive notifications.

- * **Test Steps:**

- 1. Arrange for test email forwarding to a designated test account. (This might require setting up a forwarding rule in your email system.)

- 2. Complete a booking for the hypothetical event, including providing email details.

- 3. Verify receipt of a confirmation email within a reasonable timeframe (e.g., 15 minutes).

- 4. Check the incoming email messages for a reminder email sent a few days before the event date.

* **Postconditions:**

* No emails are modified.

* **Expected Result:** Organizers should receive clear confirmation emails upon successful venue booking and timely reminder emails close to the event date.

* **Severity:** Important

* **Priority:** High

* **Type of Testing:** Functional Testing, Usability Testing, Non-Functional Testing (Email Compliance)

Test Case 5

* **Test Case ID:** V_VENUE_005

* **Test Case Title:** Verify that venues can be canceled or rescheduled through the platform.

* **Test Case Description:** This test case covers the organizer's ability to manage bookings by canceling or rescheduling existing venues.

* **Test Suite:** Venue Management

* **Test Priority:** Medium

* **Preconditions:**

* A logged-in organizer user account exists with an existing booking.

* **Test Data:**

* Existing venue booking information.

* **Test Steps:**

1. Navigate to the "Bookings" section of the platform.
2. Locate the existing venue booking.
3. Select the option to "Cancel" the booking.
4. Verify that the cancellation is confirmed and the venue is marked as available for future bookings.
5. Repeat steps 2-4, selecting the option to "Reschedule" the booking instead.

6. Choose a new date range for the rescheduled event and confirm the changes.

7. Verify that the booking status is updated to reflect the new date range.

* **Postconditions:**

* Any rescheduled dates are within the venue's availability window.

* **Expected Result:** Organizers should be able to seamlessly cancel or reschedule venue bookings directly through the platform, with the changes reflected in the system.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

Data - 126

Project name -

Event Management Platform

Project description -

Develop an event management platform for organizing and managing events, conferences, and gatherings. The platform should include features like event registration and ticketing, agenda management, attendee engagement tools, speaker and sponsor management, venue and logistics coordination, and analytics and reporting. Users should be able to create, promote, and manage events from start to finish, and attendees

should be able to register, access event information, and interact with other participants.

Feature name -

Speaker Management

Feature description -

Organizers can manage event speakers, including speaker profiles, session scheduling, and speaker communication. This feature allows organizers to coordinate with speakers, provide them with necessary information and resources, and ensure smooth execution of event sessions.

Userstory title -

As an organizer, I want to manage speakers so that I can ensure well-coordinated event sessions.

Acceptance criteria -

['Organizers can add and edit speaker profiles.', 'Speakers can be assigned to specific sessions.', 'The system sends automated communication to speakers.', 'Organizers can access speaker resources and materials.', 'Speakers receive schedules and updates in a timely manner.']

Generated Test Cases:

Test Cases for Speaker Management Feature

Here are 5 detailed test cases for the Speaker Management feature of the Event Management Platform, based on the provided user story and acceptance criteria:

****Test Case ID:** S1**

****Test Case Title:** Verify that organizers can add speaker profiles with required information.**

****Test Case Description:** This test case verifies the functionality of adding new speaker profiles to the platform, ensuring all mandatory fields are correctly populated and accepted.**

****Test Suite:**** Speaker Management

****Test Priority:**** High

****Preconditions:****

- * A logged-in organizer account is available.
- * An event is created and available for speaker management.

****Test Data:**** Valid speaker information including name, email, biography, and speaker type.

****Test Steps:****

1. Navigate to the "Speakers" section within the event dashboard.
2. Click the "Add Speaker" button.
3. Fill in the required fields with valid speaker information.
4. Click the "Save Speaker" button.

****Postconditions:****

- * A new speaker profile with the provided information is displayed in the "Speakers" list.

****Expected Result:**** The speaker profile is successfully created and saved in the system.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** S2

****Test Case Title:**** Verify that organizers can edit existing speaker profiles.

****Test Case Description:**** This test case verifies the functionality of editing existing speaker profiles, ensuring all changes are accurately reflected and saved.

****Test Suite:**** Speaker Management

****Test Priority:**** Medium

****Preconditions:****

- * A logged-in organizer account is available.
- * An event with at least one speaker profile is created.

****Test Data:**** Modified speaker information like biography, contact details, or speaker type.

****Test Steps:****

1. Navigate to the "Speakers" section within the event dashboard.
2. Identify an existing speaker profile and click on it to open the profile editing page.

3. Modify the speaker's information (e.g., biography, website link).

4. Click the "Save Changes" button.

****Postconditions:****

* The edited speaker profile information is displayed on the "Speakers" list.

****Expected Result:**** The speaker profile is successfully updated with the new information.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** S3

****Test Case Title:**** Verify that speakers can be assigned to specific sessions.

****Test Case Description:**** This test case verifies the functionality of assigning speakers to specific event sessions, ensuring accurate association and visibility.

****Test Suite:**** Speaker Management

****Test Priority:**** High

****Preconditions:****

- * A logged-in organizer account is available.
- * An event with multiple sessions is created.
- * At least two speaker profiles exist within the event.

****Test Data:**** Session titles and speaker information

****Test Steps:****

1. Navigate to the "Sessions" section within the event dashboard.
2. Select a session and click on the "Assign Speaker" button.
3. Choose a speaker profile from the list of available speakers.
4. Click the "Assign" button.

****Postconditions:****

- * The selected speaker is listed under the assigned speakers for the chosen session.
- * The speaker profile displays the assigned session(s).

****Expected Result:**** The speaker is successfully assigned to the specified session.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** S4**

****Test Case Title:** Verify that the system sends automated communication to speakers.**

****Test Case Description:** This test case verifies the functionality of automated communication emails triggered by system events (e.g., session assignment, event reminder).**

****Test Suite:** Speaker Management**

****Test Priority:** High**

****Preconditions:****

- * A logged-in organizer account is available.
- * An event is created with registered speakers.
- * A test email address is setup for the system to send notifications.

****Test Data:** Expected email content for different speaker notifications (e.g., session assignment, event reminder).**

****Test Steps:****

1. After assigning a speaker to a session, check the test email address for a confirmation email.

2. A few days before the event, check the test email address for an event reminder email to the speaker.

****Postconditions:****

* Emails containing expected messages are received in the test email address.

****Expected Result:**** The system successfully sends automated communication emails to speakers upon relevant events.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** S5

****Test Case Title:**** Verify that organizers can access speaker resources and materials.

****Test Case Description:**** This test case verifies the functionality for organizers to upload and manage resources for speakers, ensuring proper access and visibility within the platform.

****Test Suite:**** Speaker Management

****Test Priority:** Medium**

****Preconditions:****

- * A logged-in organizer account is available.
- * An event with at least one speaker profile is created.
- * Sample resource files (e.g., presentation slides, speaker guidelines, venue map) are prepared.

****Test Data:**** Resource files for speakers in various formats (PDF, PPT, DOC).

****Test Steps:****

1. Navigate to the "Speakers" section within the event dashboard.
2. Select a speaker profile and access the "Resource Management" tab.
3. Upload the prepared resource files.
4. Verify that the uploaded files are listed and accessible within the speaker's profile.

Confirm that speakers can download these resources.

****Postconditions:****

- * Successfully uploaded resource files are listed under the speaker profile.

****Expected Result:**** Organizers can upload and manage speaker resources, and speakers can access these resources through their profiles within the platform.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Data - 127

Project name -

Event Management Platform

Project description -

Develop an event management platform for organizing and managing events, conferences, and gatherings. The platform should include features like event registration and ticketing, agenda management, attendee engagement tools, speaker and sponsor management, venue and logistics coordination, and analytics and reporting. Users should be able to create, promote, and manage events from start to finish, and attendees should be able to register, access event information, and interact with other participants.

Feature name -

Sponsorship Management

Feature description -

The system facilitates sponsorship management, including sponsor outreach, proposal submission, and sponsor relationship management. This feature enables organizers to secure sponsorships for events, track sponsorship commitments, and provide sponsors with visibility and recognition.

Userstory title -

As an organizer, I want to manage sponsorships so that I can secure support and funding for my events.

Acceptance criteria -

['Organizers can create and manage sponsorship proposals.', 'The system tracks sponsor commitments and contributions.', 'Sponsors receive visibility and recognition through the platform.', 'Organizers can communicate with sponsors directly.', 'The platform provides reports on sponsorship impact.']

Generated Test Cases:

Test Cases for Event Management Platform - Sponsorship Management

****User Story:**** As an organizer, I want to manage sponsorships so that I can secure support and funding for my events.

****Acceptance Criteria:****

- Organizers can create and manage sponsorship proposals.
- The system tracks sponsor commitments and contributions.
- Sponsors receive visibility and recognition through the platform.
- Organizers can communicate with sponsors directly.
- The platform provides reports on sponsorship impact.

****Test Case 1:**** Verify that organizers can create sponsorship proposals

****Test Case Description:**** This test case verifies the functionality of creating a new sponsorship proposal with required details like sponsorship package description, benefits, cost, and deadlines.

****Test Suite:**** Sponsorship Management

****Test Priority:**** High

****Preconditions:****

- * Logged-in as an event organizer.
- * An event needs to be created and active in the system.

****Test Data:****

- * Valid event ID.
- * Descriptive sponsorship package details (name, description, benefits, cost, deadlines).

****Test Steps:****

1. Navigate to the Sponsorship Management section within the event details.
2. Click on the "Create New Proposal" button.
3. Fill in the required fields for the sponsorship proposal with test data.
4. Click on the "Save Proposal" button.
5. Verify that the sponsorship proposal is successfully created and displayed in the list of proposals.

****Postconditions:****

- * The proposal should be visible in the organizer's dashboard.

****Expected Result:**** A new sponsorship proposal should be successfully created and displayed in the list of proposals.

****Severity:**** Major

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case 2:** Verify that the system tracks sponsor commitments and contributions**

****Test Case Description:** This test case verifies that the system accurately tracks sponsor commitments and contributions over time.**

****Test Suite:** Sponsorship Management**

****Test Priority:** High**

****Preconditions:****

* A sponsorship proposal has been created and approved.

****Test Data:****

* Sample sponsorship contribution amount.

* Mock sponsor details.

****Test Steps:****

1. Navigate to the sponsorship details for the approved proposal.
2. Simulate a sponsor making a partial payment towards their commitment.
3. Verify that the system updates the sponsor's contribution status accordingly.

4. Repeat step 2 with remaining balance and verify the final contribution status.
5. Generate a report on sponsorship contributions for the event.

****Postconditions:****

* The sponsor's payment history should be updated in the system.

****Expected Result:**** The system should accurately track the sponsor's commitment and contributions, updating the payment status and generating a comprehensive report.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

Let me know if you'd like me to continue generating more test cases.

Project name -

Event Management Platform

Project description -

Develop an event management platform for organizing and managing events, conferences, and gatherings. The platform should include features like event registration and ticketing, agenda management, attendee engagement tools, speaker and sponsor management, venue and logistics coordination, and analytics and reporting. Users should be able to create, promote, and manage events from start to finish, and attendees should be able to register, access event information, and interact with other participants.

Feature name -

Attendee Engagement Tools

Feature description -

The system includes tools for engaging attendees before, during, and after events, such as event agendas, interactive polls, and attendee networking features. This feature enhances attendee experience, encourages participation, and fosters connections among event attendees.

Userstory title -

As an attendee, I want engagement tools so that I can actively participate in and network at events.

Acceptance criteria -

['Attendees can access event agendas and schedules.', 'The system supports interactive polls and Q&A sessions.', 'Attendees can connect and network with each other.', 'Engagement tools are available before, during, and after events.', 'The platform provides feedback and engagement analytics to organizers.']

Generated Test Cases:

Test Cases for Attendee Engagement Tools

****Test Case ID:** ATE-001**

****Test Case Title:** Verify that attendees can access event agendas and schedules.**

****Test Case Description:****

This test case verifies that registered attendees can successfully access the detailed event agenda and schedule information for an event they are registered for.

****Test Suite:**** Attendee Engagement Tools

****Test Priority:**** High

****Preconditions:****

- * An event with a published agenda is created in the platform.
- * A registered attendee account exists.

****Test Data:**** Event ID, attendee username and password

****Test Steps:****

1. Login to the platform using the attendee account.
2. Navigate to the event page of the created event.
3. Click on the "Agenda" or "Schedule" section.
4. Verify that the event agenda is displayed with detailed information about sessions, speakers, and timings.
5. Filter the agenda by date or session type (if applicable).
6. Confirm that the filtered agenda displays the correct information.

****Postconditions:****

- * The attendee remains logged into the platform.
- * The event agenda is closed.

****Expected Result:**** The event agenda and schedule should be accessible to the attendee with detailed

information and filter options.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing, Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:**** ATE-002

****Test Case Title:**** Verify that the system supports interactive polls and Q&A sessions.

****Test Case Description:****

This test case ensures that attendees can participate in interactive polls and Q&A sessions during an event.

****Test Suite:**** Attendee Engagement Tools

****Test Priority:**** Medium

****Preconditions:****

- * An event with active poll and Q&A features is created.

- * A registered attendee account exists.

****Test Data:**** Event ID, attendee username and password, poll question options, Q&A question text

****Test Steps:****

1. Login to the platform using the attendee account.
2. Navigate to the event page of the created event.

3. Locate and open an active poll.
4. Select one or multiple answer options for the poll question.
5. Submit the poll response.
6. Navigate to the Q&A section within the event.
7. Input a relevant question regarding the event content.
8. Submit the question.

****Postconditions:****

* The attendee remains logged into the platform.

****Expected Result:****

* The attendee should be able to participate in the poll by selecting and submitting answers.

* The attendee should be able to submit questions to the designated Q&A forum.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, System Testing, Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:**** ATE-003

****Test Case Title:**** Verify that attendees can connect and network with each other.

****Test Case Description:****

This test case checks if attendees can establish connections and engage in networking functionalities within the event platform.

****Test Suite:**** Attendee Engagement Tools

****Test Priority:**** High

****Preconditions:****

- * An event is created with enabled attendee networking features.
- * Two registered attendee accounts exist.

****Test Data:**** Attendee usernames and passwords, optional: profile information

****Test Steps:****

1. Login to the platform using the first attendee account.
2. Navigate to the event page and locate the networking section.
3. Find the second attendee within the networking list.
4. Initiate a connection request to the second attendee.
5. Log in to the second attendee account.
6. Accept the incoming connection request from the first attendee.

****Postconditions:****

- * Both attendees remain logged into their respective accounts.

****Expected Result:****

- * The connection request should be successfully sent and received.
- * The two attendees should be connected within the platform's network feature.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing, System Testing, Acceptance Testing**

****Test Case Approach:** Positive**

****Test Case ID:** ATE-004**

****Test Case Title:** Verify that engagement tools are available before, during, and after events.**

****Test Case Description:****

This test case verifies the availability of various engagement tools at different stages of an event lifecycle.

****Test Suite:** Attendee Engagement Tools**

****Test Priority:** Medium**

****Preconditions:****

* An event is created with scheduled activities and content.

****Test Data:** Event Schedule, Agenda content, Poll questions, Q&A Topics**

****Test Steps:****

1. Before event:

- * Accessed event page to review agenda, speaker bios, and any pre-event polls.
- * Verified that networking functionalities are accessible.

2. During event:

- * Log into the platform during a scheduled live session.
- * Participate in live Q&A session and submit questions.
- * Access real-time poll during the session.

3. After event:

- * Log into the platform.
- * Review post-event agenda and session recordings (if available).
- * Access post-event poll results.

****Postconditions:****

- * The attendee remains logged into their account.

****Expected Result:****

- * All relevant engagement tools should be accessible based on the event stage:
 - * Pre-event: Agenda, speaker information, pre-event polls, networking.
 - * During event: Live Q&A, real-time polls, session access.
 - * Post-event: Recorded sessions, post-event polls results, networking.

****Severity:** Critical**

****Priority:** Medium**

****Type of Testing:** Functional Testing, System Testing, Acceptance Testing**

****Test Case Approach:** Positive, Negative (Test for unavailable tools at wrong stage)**

****Test Case ID:** ATE-005**

****Test Case Title:**** Verify that the platform provides feedback and engagement analytics to organizers.

****Test Case Description:****

This test case examines the organizers' access to attendee engagement data and analytics.

****Test Suite:**** Attendee Engagement Tools

****Test Priority:**** Medium

****Preconditions:****

- * An event with attendee activity is created.
- * An organizer account is created and given access to event analytics.

****Test Data:**** Event ID, organizer username and password

****Test Steps:****

1. Log in to the platform using the organizer account.
2. Navigate to the event analytics dashboard for the created event.
3. Review attendee engagement metrics such as poll responses, Q&A participation, networking connections, and session attendance.
4. Explore detailed breakdowns by attendee segments, poll questions, or session types.

****Postconditions:****

- * The organizer remains logged into their account.

****Expected Result:****

* Organizers should have access to a comprehensive dashboard displaying various attendee engagement metrics for the event.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, System Testing, Acceptance Testing

****Test Case Approach:**** Positive

Data - 129

Project name -

Event Management Platform

Project description -

Develop an event management platform for organizing and managing events, conferences, and gatherings. The platform should include features like event registration and ticketing, agenda management, attendee engagement tools, speaker and sponsor management, venue and logistics coordination, and analytics and reporting. Users should be able to create, promote, and manage events from start to finish, and attendees should be able to register, access event information, and interact with other participants.

Feature name -

Mobile Event App

Feature description -

The system offers a mobile event app that attendees can use to access event information, view schedules,

receive notifications, and interact with other attendees. This feature provides attendees with a convenient way to stay connected and engaged with events on the go.

Userstory title -

As an attendee, I want a mobile event app so that I can easily access event information and interact with others on the go.

Acceptance criteria -

['Attendees can download and install the mobile event app.', 'The app provides access to event schedules and agendas.', 'Users receive real-time notifications and updates.', 'The app includes interactive features for attendee networking.', 'The app supports offline access to certain event information.']

Generated Test Cases:

Test Cases for Mobile Event App

Here are 5 detailed test cases for the "Mobile Event App" feature of the Event Management Platform, addressing the provided acceptance criteria:

****Test Case ID:** TC-MEA-001**

****Test Case Title:** Verify that attendees can download and install the mobile event app.**

****Test Case Description:****

This test case aims to verify the successful installation of the mobile event app on a supported device. It will cover app availability in relevant app stores, the installation process, and initial app launch.

****Test Suite:** Mobile App**

****Test Priority:** High**

****Preconditions:****

- * A supported mobile device with an active internet connection.
- * Adequate storage space on the device.
- * An account on the Event Management Platform with event access.

****Test Data:** No test data needed**

****Test Steps:****

1. Navigate to the Apple App Store (iOS) or Google Play Store (Android).
2. Search for "Event Management App".
3. Verify the app listing contains accurate information, including screenshots and description.
4. Tap the "Install" or "Get" button to download and install the app.
5. Launch the app after installation and verify successful login using existing credentials.

****Postconditions:****

- * App installation is successful and the user can access the app.

****Expected Result:** The app should be downloaded, installed, and launched without errors.**

****Severity:** Critical**

****Priority:** High**

****Type of Testing:**** System Testing, Installation Testing, Compatibility Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC-MEA-002

****Test Case Title:**** Verify that the app provides access to event schedules and agendas.

****Test Case Description:**** This test case aims to validate that attendees can access and view detailed event schedules and agendas through the mobile app.

****Test Suite:**** Mobile App

****Test Priority:**** High

****Preconditions:****

* A successful installation and login to the mobile event app.

* An event with at least one scheduled session available in the Event Management Platform.

****Test Data:**** Event with scheduled sessions.

****Test Steps:****

1. Log in to the mobile event app.
2. Navigate to the "Schedule" or "Agenda" section of the app.
3. Verify the schedule is displayed chronologically with session titles, dates, times, and locations.
4. Tap on a specific session to view detailed information, such as speaker profiles, session description, and location details.

****Postconditions:**** No additional postconditions for this test case.

****Expected Result:**** All scheduled sessions should be accessible and displayed with complete information within the app.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC-MEA-003

****Test Case Title:**** Verify that users receive real-time notifications and updates.

****Test Case Description:****

This test case evaluates the functionality of real-time notifications and updates within the mobile app.

****Test Suite:**** Mobile App

****Test Priority:**** High

****Preconditions:****

- * A successful installation and login to the mobile event app.
- * Active push notifications enabled on the device.
- * An event with configured notifications within the Event Management Platform.

****Test Data:**** Event with scheduled notifications.

****Test Steps:****

1. Log in to the mobile event app.
2. Configure the app to receive push notifications for event updates and reminders.
3. Verify receiving a push notification for an upcoming session start time defined in the Event Management Platform.
4. Verify receiving a push notification for a change in event schedule published in the Event Management Platform.

****Postconditions:**** No additional postconditions for this test case.

****Expected Result:****

Attendees should receive timely push notifications for all configured event updates and reminders.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing, System Testing, Notification Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC-MEA-004**

****Test Case Title:** Verify that the app includes interactive features for attendee networking.**

****Test Case Description:** This test case scrutinizes the interactive features designed for attendee networking within the mobile event app.**

****Test Suite:** Mobile App**

****Test Priority:** Medium**

****Preconditions:****

*** A successful installation and login to the mobile event app**

* An event with configured networking features within the Event Management Platform.

****Test Data:**** Sample attendee profiles within the event.

****Test Steps:****

1. Navigate to the networking section of the app.
2. Verify the presence of a user directory or directory search functionality.
3. Search for other attendees by name or keyword.
4. Explore attendee profiles, including basic information, interests, and optional social media links.
5. Test the functionality of sending and receiving messages or chat requests to other attendees.

****Postconditions:**** No additional postconditions for this test case.

****Expected Result:****

The app should provide a seamless and user-friendly experience for attendees to connect and interact with each other.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, User Interface Testing, System Testing

****Test Case Approach:**** Positive

****Test Case ID:** TC-MEA-005**

****Test Case Title:** Verify that the app supports offline access to certain event information.**

****Test Case Description:****

This test case examines the functionality of offline access to essential event information within the mobile app.

****Test Suite:** Mobile App**

****Test Priority:** Medium**

****Preconditions:****

- * A successful installation and login to the mobile event app.
- * An event with content designated for offline access configured in the Event Management Platform.

****Test Data:** Event with information marked for offline viewing (e.g., schedule, speaker bios).**

****Test Steps:****

1. Enable offline mode within the app before losing internet connectivity.
2. Verify access to the offline event information, such as the schedule, speaker bios, and relevant documents.
3. Simulate a scenario with interrupted internet connectivity and attempt to access the same information.

4. Verify that the information is accessible even without an active internet connection.
5. Restore internet connectivity and attempt to synchronize the app.
6. Verify that the app syncs with any updated information from the Event Management Platform.

****Postconditions:****

* Offline mode is successfully disabled and app is synced with online data.

****Expected Result:**** The app should correctly cache event information for offline access, and the synchronized data update after restoring connectivity.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Offline Mode Testing, Synchronization Testing

****Test Case Approach:****

Project name -

Event Management Platform

Project description -

Develop an event management platform for organizing and managing events, conferences, and gatherings. The platform should include features like event registration and ticketing, agenda management, attendee engagement tools, speaker and sponsor management, venue and logistics coordination, and analytics and reporting. Users should be able to create, promote, and manage events from start to finish, and attendees should be able to register, access event information, and interact with other participants.

Feature name -

Event Marketing Tools

Feature description -

Organizers have access to event marketing tools such as email marketing, social media integration, and promotional campaigns. This feature helps organizers reach a wider audience, generate buzz around their events, and drive ticket sales.

Userstory title -

As an organizer, I want access to marketing tools so that I can effectively promote my events and reach a wider audience.

Acceptance criteria -

['Organizers can create and manage email marketing campaigns.', 'The system supports integration with social media platforms.', 'Organizers can track the performance of marketing campaigns.', 'Promotional content can be customized and scheduled.', 'The platform provides analytics on campaign effectiveness.']

Generated Test Cases:

Event Management Platform - Test Cases for Event Marketing Tools

****User Story:**** As an organizer, I want access to marketing tools so that I can effectively promote my events and reach a wider audience.

Test Case 1:

****Test Case ID:**** TEST-EMT-001

****Test Case Title:**** Verify that organizers can create email marketing campaigns.

****Test Case Description:**** This test case verifies the functionality of creating email marketing campaigns for events. It will test input fields, campaign scheduling, email templates, and the ability to select target audiences.

****Test Suite:**** System Testing

****Test Priority:**** High

****Preconditions:****

- * Organizers have logged into the platform.
- * An event has been created and published.
- * The user has necessary permissions to create marketing campaigns.

****Test Data:**** Sample event details, email templates, target audience segmentations.

****Test Steps:****

1. Navigate to the "Marketing" tab of the event dashboard.
2. Click the "Create Email Campaign" button.
3. Fill in the campaign details - subject, header, body content, call to action, and target audience.
4. Select a pre-built template or upload a custom email template.
5. Choose a campaign sending date and time.
6. Review and submit the email campaign for scheduling.

****Postconditions:****

- * An email campaign is successfully created and scheduled.
- * Campaign details are displayed in the campaign list.

****Expected Result:**** The system successfully creates the email campaign with specified details and schedule.

****Severity:** Major**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Test Case 2:

****Test Case ID:** TEST-EMT-002**

****Test Case Title:** Verify that the system supports integration with social media platforms.**

****Test Case Description:** This test case verifies the functionality of integrating the event platform with popular social media platforms for event promotion.**

****Test Suite:** System Testing**

****Test Priority:** High**

****Preconditions:****

- * Organizers have logged into the platform.
- * An event has been created and published.
- * The user has necessary permissions to connect social media accounts.

****Test Data:** Valid social media credentials for relevant platforms (Facebook, Twitter, Instagram, etc.).**

****Test Steps:****

1. Navigate to the "Marketing" tab of the event dashboard.
2. Click the "Connect Social Media" button.
3. Choose the desired social media platform to connect.
4. Enter the required login credentials.
5. Grant the platform access to post event updates on the selected social media account.

****Postconditions:****

* The event platform successfully integrates with the chosen social media platform.

* A verified connection is displayed for the chosen platform.

****Expected Result:**** The system allows for seamless integration with chosen social media platforms, enabling automatic posting of event updates.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 3:

****Test Case ID:**** TEST-EMT-003

****Test Case Title:**** Verify that organizers can track the performance of marketing campaigns.

****Test Case Description:**** This test case verifies the functionality of tracking and visualizing campaign performance metrics.

****Test Suite:**** System Testing

****Test Priority:**** Medium

****Preconditions:****

* Organizers have logged into the platform.

* An email campaign has been created and sent.

****Test Data:**** Available campaign performance data from the platform's analytics dashboard.

****Test Steps:****

1. Navigate to the "Marketing" tab of the event dashboard.

2. Select the email campaign that was previously sent.

3. Review the campaign performance metrics: open rates, click-through rates, conversion rates, etc.

4. Analyze the data presented in charts or graphs.

****Postconditions:****

* The summary of campaign performance data is displayed.

****Expected Result:**** The platform accurately displays key performance metrics for the selected marketing campaign, enabling organizers to assess effectiveness.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 4:

****Test Case ID:**** TEST-EMT-004

****Test Case Title:**** Verify that promotional content can be customized and scheduled.

****Test Case Description:**** This test case ensures that organizers can customize promotional content (text, images, videos) and schedule its display across different platforms.

****Test Suite:**** System Testing

****Test Priority:**** High

****Preconditions:****

* Organizers have logged into the platform.

* An event has been created and published.

****Test Data:**** Sample promotional text, images, and video files.

****Test Steps:****

1. Navigate to the "Marketing" tab of the event dashboard.
2. Choose a promotional content type (text banner, image slider, video)
3. Upload or input the desired promotional content.
4. Customize the content by selecting formatting options, adding call-to-action buttons, etc.
5. Schedule the promotional content to display at specific times or dates.
6. Confirm the scheduled display.

****Postconditions:****

* Customized promotional content is scheduled for display.

****Expected Result:**** The platform allows for the creation and scheduling of customized promotional content to be displayed across different event channels.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case 5:****

****Test Case ID:**** TEST-EMT-005

****Test Case Title:**** Verify that the platform provides analytics on campaign effectiveness.

****Test Case Description:**** This test case ensures that analytics on campaign performance are generated and presented in a clear and actionable manner.

****Test Suite:**** System Testing

****Test Priority:**** Medium

****Preconditions:****

- * Organizers have logged into the platform.
- * Marketing campaigns have been launched.

****Test Data:****

Campaign performance data from the platform's analytics dashboard [Expected: Data on opens, clicks, conversions, etc.].

****Test Steps:****

1. Navigate to the "Analytics" tab of the event dashboard.
2. Review the available campaign performance reports, including:
 - * Summary of campaign performance
 - * Audience demographics
 - * Click and conversion rates
 - * Trend analysis over time

****Postconditions:****

- * Relevant campaign performance analytics are displayed.

****Expected Result:**** The platform provides detailed analytics and reports on campaign effectiveness, enabling organizers to make data-driven decisions.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional & Performance Testing

****Test Case Approach:**** Positive & Negative [Negative scenarios could include looking for missing data points or unexpected results.].

Data - 131

Project name -

Event Management Platform

Project description -

Develop an event management platform for organizing and managing events, conferences, and gatherings. The platform should include features like event registration and ticketing, agenda management, attendee engagement tools, speaker and sponsor management, venue and logistics coordination, and analytics and reporting. Users should be able to create, promote, and manage events from start to finish, and attendees should be able to register, access event information, and interact with other participants.

Feature name -

Session Management

Feature description -

Organizers can manage event sessions, including session scheduling, room assignments, and session attendance tracking. This feature allows organizers to create comprehensive event agendas, assign speakers to sessions, and monitor session attendance in real-time.

Userstory title -

As an organizer, I want to manage event sessions so that I can ensure smooth scheduling and attendance tracking.

Acceptance criteria -

['Organizers can create and edit event sessions.', 'The system allows for room assignments and scheduling.', 'Attendance tracking is integrated into the session management tools.', 'Speakers can be assigned to specific sessions.', 'Real-time updates are provided for session changes.']

Generated Test Cases:

Event Management Platform - Session Management Test Cases

****Test Case ID:**** EM-SM-TC01

****Test Case Title:**** Verify that organizers can create new sessions.

****Test Case Description:**** This test case verifies the functionality of creating a new event session with all required information, including title, description, date, time, and room assignment.

****Test Suite:**** Session Management

****Test Priority:**** High

****Preconditions:****

- * A logged-in organizer user exists.
- * An event has been created and is accessible.

****Test Data:****

- * Session title: "Introduction to Event Management"
- * Session description: "An overview of event planning essentials"
- * Date: 2024-03-15
- * Time: 10:00 AM - 11:00 AM
- * Room: Auditorium A

****Test Steps:****

1. Navigate to the "Events" tab and select the target event.
2. Click on the "Add Session" button.
3. Fill in the session details with the provided data.
4. Save the new session.
5. Verify that the new session appears in the session list for the selected event.

****Postconditions:****

- * The newly created session is visible in the event's session list.

****Expected Result:**** The session is successfully created and displayed in the event's session list.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, User Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:**** EM-SM-TC02

****Test Case Title:**** Verify that organizers can edit existing sessions.

****Test Case Description:**** This test case verifies the functionality of editing an existing event session, including title, description, date, time, and room assignment.

****Test Suite:**** Session Management

****Test Priority:**** Medium

****Preconditions:****

- * A logged-in organizer user exists.
- * An event has been created with at least one session.

****Test Data:****

- * Existing session title: "Introduction to Event Management" (from previous test case)

- * New session title: "Event Management Essentials"

****Test Steps:****

1. Navigate to the "Events" tab and select the target event.
2. Locate the existing session (title "Introduction to Event Management") and click on "Edit".
3. Change the session title to "Event Management Essentials".
4. Click "Save Changes".
5. Verify that the session title has been updated in the event's session list.

****Postconditions:**** None

****Expected Result:**** The session title is successfully updated to "Event Management Essentials".

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, User Acceptance Testing

****Test Case Approach:**** Positive,

****Test Case ID:**** EM-SM-TC03

****Test Case Title:**** Verify that room assignments can be changed for existing sessions.

****Test Case Description:**** This test case verifies the functionality of changing the room assignment for an existing event session.

****Test Suite:**** Session Management

****Test Priority:**** High

****Preconditions:****

* A logged-in organizer user exists.

* An event has been created with at least one session.

****Test Data:****

* Session title: "Introduction to Event Management Essentials" (from previous test case)

* Original room: Auditorium A

* New room: Conference Room 1

****Test Steps:****

1. Navigate to the "Events" tab and select the target event.

2. Locate the session (title "Introduction to Event Management Essentials") and click on "Edit".
3. Change the room assignment to "Conference Room 1".
4. Click "Save Changes".
5. Verify that the session room is updated in the event's session list.

****Postconditions:****

* Session room has been updated.

****Expected Result:**** The session room is successfully changed to "Conference Room 1".

****Severity:**** Minor

****Priority:**** High

****Type of Testing:**** Functional Testing, User Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:**** EM-SM-TC04

****Test Case Title:**** Verify that attendance tracking is integrated into session management.

****Test Case Description:**** This test case verifies that attendee attendance is recorded and displayed for sessions.

****Test Suite:**** Session Management

****Test Priority:**** High

****Preconditions:****

* A logged-in organizer user exists.

* An event has been created with a session.

* At least one attendee has registered for the event and the session.

****Test Data:****

* Event session title: "Introduction to Event Management Essentials"

****Test Steps:****

1. Navigate to the "Events" tab and select the target event.
2. Locate the session (title "Introduction to Event Management Essentials").

3. Click on the "Attendees" tab for the session.
4. Verify that a list of attendees registered for the session is displayed.
5. Review the "Status" column for each attendee to confirm if they have marked as "Attended", "Not Attended" or "Didn't Attend".

****Postconditions:****

* Attendee attendance list is accessible.

****Expected Result:**** The attendee list is populated and correctly displays the attendance status for registered attendees.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** EM-SM-TC05

****Test Case Title:**** Verify that speakers can be assigned to sessions.

****Test Case Description:**** This test case verifies the functionality of assigning speakers to specific sessions.

****Test Suite:**** Session Management

****Test Priority:**** Medium

****Preconditions:****

* A logged-in organizer user exists.

* An event has been created with a session.

* A speaker profile exists in the system.

****Test Data:****

* Event session title: "Introduction to Event Management Essentials"

* Speaker name: Jane Doe

****Test Steps:****

1. Navigate to the "Events" tab and select the target event.

2. Locate the session (title "Introduction to Event Management Essentials").
3. Click on the "Manage Speakers" tab for the session.
4. Search for the speaker profile (Jane Doe).
5. Select the speaker and click "Assign Speaker".
6. Verify that Jane Doe is listed as the assigned speaker for the session.

****Postconditions:****

- * Speaker assignment is reflected in the session information.

****Expected Result:**** Jane Doe is successfully assigned as a speaker for the "Introduction to Event Management Essentials" session.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Data - 132

Project name -

Event Management Platform

Project description -

Develop an event management platform for organizing and managing events, conferences, and gatherings. The platform should include features like event registration and ticketing, agenda management, attendee engagement tools, speaker and sponsor management, venue and logistics coordination, and analytics and reporting. Users should be able to create, promote, and manage events from start to finish, and attendees should be able to register, access event information, and interact with other participants.

Feature name -

Registration Management

Feature description -

The system provides tools for managing event registrations, including registration forms, attendee data collection, and registration confirmation emails. This feature enables organizers to streamline the registration process, collect essential attendee information, and communicate effectively with registered attendees.

Userstory title -

As an organizer, I want to manage event registrations so that I can efficiently collect and communicate with attendee information.

Acceptance criteria -

['Organizers can create and customize registration forms.', 'Attendee data is collected securely and accurately.', 'The system sends automated registration confirmation emails.', 'Organizers can access and export attendee data.', 'The platform supports registration modifications and cancellations.']

Generated Test Cases:

Test Cases for Registration Management Feature

Here are 5 test cases for the Registration Management feature of the Event Management Platform, based on the provided user story and acceptance criteria:

****Test Case 1****

* **Test Case ID:** TC_REG_001

* **Test Case Title:** Verify that organizers can create registration forms with customizable fields.

* **Test Case Description:** This test case aims to validate the ability of organizers to design registration forms with tailored fields for gathering specific attendee information.

* **Test Suite:** Registration Management

* **Test Priority:** High

* **Preconditions:**

- * A logged-in event organizer.

- * An active event.

* **Test Data:** Sample registration form fields (e.g., Name, Email, Phone, Dietary Restrictions, T-shirt Size)

* **Test Steps:**

1. Navigate to the "Registration" section of the event dashboard.
2. Click the "Create New Form" button.
3. Add various customized fields, including text fields, dropdowns, checkboxes, and radio buttons.
4. Name the form and save it.
5. Review the created form to ensure all added fields are correctly displayed.

* **Postconditions:** The registration form is saved and accessible.

* **Expected Result:** The organizer successfully creates a registration form with customized fields according to their specifications.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

Test Case 2

* **Test Case ID:** TC_REG_002

* **Test Case Title:** Verify that attendee data is collected securely and accurately.

* **Test Case Description:** This test case verifies the secure handling and accurate recording of attendee data during the registration process.

* **Test Suite:** Registration Management

* **Test Priority:** High

* **Preconditions:**

- * An active event with a registration form.
- * A valid username and password for registration.

* **Test Data:** Test attendee data with valid and invalid inputs (e.g., incorrect email formats).

* **Test Steps:**

1. Access the event registration page.
2. Provide both valid and invalid data in different fields (e.g., email address).
3. Check for error messages and validation rules for incorrect data.
4. Submit the registration form with valid data.
5. Verify that the data is recorded accurately in the system's database.

* **Postconditions:** The registration data is stored in the database.

* **Expected Result:**

- * Valid data is successfully recorded and stored securely.
- * Errors are displayed for invalid data inputs.

* **Severity:** High

* **Priority:** High

* **Type of Testing:** Functional Testing, Security Testing, Data Integrity Testing

****Test Case 3****

* **Test Case ID:** TC_REG_003

* **Test Case Title:** Verify that the system sends automated registration confirmation emails

* **Test Case Description:** This test confirms the functionality of sending automated email notifications to attendees upon successful registration.

* **Test Suite:** Registration Management

* **Test Priority:** High

* **Preconditions:**

- * An active event with a functional registration form

- * A valid email address for testing.

* **Test Data:** Test attendee email address associated with registration.

* **Test Steps:**

1. Register for the event using the test email address.
2. Check the email inbox for an automated confirmation email from the platform.
3. Verify the email includes essential details (e.g., event name, dates, attendees' information)

* **Postconditions:** Confirmation email received by the attendee.

* **Expected Result:** Attendee receives a timely and accurate registration confirmation email.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing, Email Integration Testing

Test Case 4

* **Test Case ID:** TC_REG_004

* **Test Case Title:** Verify that organizers can access and export attendee data

* **Test Case Description:** This test assesses the organizer's capability to retrieve and export attendee lists in various formats.

* **Test Suite:** Registration Management

* **Test Priority:** Medium

* **Preconditions:**

- * A logged-in event organizer
- * A test event with registered attendees.

* **Test Data:** Registered attendee data within the system.

* **Test Steps:**

1. Access the "Registration" section of the event dashboard.
2. Download the attendee data in a supported format (e.g., CSV, Excel).
3. Open the downloaded file and verify the data accuracy and completeness.

* **Postconditions:** Attendee data is exported successfully.

* **Expected Result:** Organizers can retrieve and export a complete and accurate list of registered attendees in the selected format.

* **Severity:** Major

* **Priority:** High

* **Type of Testing:** Functional Testing, Data Export Testing

Test Case 5

* **Test Case ID:** TC_REG_005

* **Test Case Title:** Verify system supports registration modifications and cancellations

* **Test Case Description:** This test examines the functionality for attendees to modify their registration details and for organizers to process cancellation requests.

* **Test Suite:** Registration Management

* **Test Priority:** Medium

* **Preconditions:**

- * A logged-in attendee who has successfully registered for an event.
- * A logged-in event organizer.

* **Test Data:** Valid attendee registration data; details for modification

* **Test Steps:**

1. ****Attendee Modification:****

- * Log in as the attendee.
- * Proceed to the attendee "My Registration" section.
- * Modify any existing registration details (e.g., dietary restrictions).
- * Review the updated information to ensure accuracy.

2. ****Organizer Cancellation:****

- * Log in as the organizer.
- * Access the attendee registration list.
- * Select an attendee and initiate the cancellation process.
- * Verify the attendee receives a cancellation confirmation email.

* ****Postconditions:**** Attendee registration is modified or cancelled.

* ****Expected Result:**** Attendees can modify their registration information as needed, and organizers have the ability to process cancellation requests efficiently.

* ****Severity:**** Major

* ****Priority:**** High

* ****Type of Testing:**** Functional Testing

These test cases cover essential aspects of the Registration Management feature, ensuring the platform's reliability and functionality in handling attendee data.

Event Management Platform

Project description -

Develop an event management platform for organizing and managing events, conferences, and gatherings. The platform should include features like event registration and ticketing, agenda management, attendee engagement tools, speaker and sponsor management, venue and logistics coordination, and analytics and reporting. Users should be able to create, promote, and manage events from start to finish, and attendees should be able to register, access event information, and interact with other participants.

Feature name -

Feedback and Surveys

Feature description -

Attendees can provide feedback and complete post-event surveys to share their thoughts and opinions about the event experience. This feature allows organizers to gather valuable insights, identify areas for improvement, and measure attendee satisfaction.

Userstory title -

As an organizer, I want to collect feedback and survey responses so that I can improve future events and measure attendee satisfaction.

Acceptance criteria -

['Attendees can access and complete feedback forms and surveys.', 'Feedback and survey responses are collected securely.', 'The system sends automated reminders to attendees to complete surveys.', 'Organizers can analyze feedback and survey results.', 'Survey data can be exported for reporting and analysis.']

Generated Test Cases:

Event Management Platform: Feedback and Surveys Test Cases

****User Story:**** As an organizer, I want to collect feedback and survey responses so that I can improve future events and measure attendee satisfaction.

****Test Case ID** | **Test Case Title** | **Test Case Description** | **Test Suite** | **Test Priority****

----- | ----- | ----- | ----- | -----

TC_FED001 | Verify that attendees can access and complete feedback forms | This test case will verify that attendees can successfully navigate to and fill out feedback forms after an event. | Feedback Module | High

TC_FED002 | Verify that feedback and survey responses are collected securely | This test case will ensure that attendee data submitted through feedback forms and surveys is handled securely and protected against unauthorized access. | Security Module | Critical

TC_FED003 | Verify that the system sends automated reminders to attendees to complete surveys | This test case will confirm that attendees receive timely and automated reminders to complete post-event surveys. | Notifications Module | High

TC_FED004 | Verify that organizers can analyze feedback and survey results | This test case will test the organizer's ability to access and analyze aggregated feedback and survey data to identify trends and insights. | Admin Dashboard Module | High

TC_FED005 | Verify that survey data can be exported for reporting and analysis | This test case will confirm that organizers can export survey data in various formats for further analysis and reporting outside the platform. | Admin Dashboard Module | Medium

****Test Case Details:****

****TC_FED001: Verify that attendees can access and complete feedback forms****

*** **Preconditions:****

- * An event has been successfully organized and concluded.
- * Attendee(s) have registered for the event.
- * A feedback form has been created and configured for the event.

*** **Test Data:**** No test data needed.

*** **Test Steps:****

- * Log in as an attendee who attended the event.
 - * Navigate to the event page.
 - * Locate and click on the "Feedback Form" link.
 - * Fill out all required fields in the feedback form.
 - * Submit the feedback form.
- * **Postconditions:**
- * The attendee should receive a confirmation message upon successful submission.
- * **Expected Result:** The attendee should be able to successfully access and complete the feedback form.
- * **Severity:** Major
- * **Priority:** High
- * **Type of Testing:** Functional Testing
- **TC_FED002: Verify that feedback and survey responses are collected securely****
- * **Preconditions:**
- * An attendee has completed a feedback form.
- * **Test Data:** No test data needed.
- * **Test Steps:**
- * Review the platform's server logs and database records to ensure that feedback form data is stored using encrypted methods.
 - * Test for the use of secure protocols (HTTPS) during the data transfer process.
 - * Verify user authentication and authorization mechanisms to prevent unauthorized access to feedback data.
- * **Postconditions:**
- * None.
- * **Expected Result:** All feedback and survey data should be collected and stored securely, protecting user

privacy and data integrity.

* **Severity:** Critical

* **Priority:** Critical

* **Type of Testing:** Security Testing

****TC_FED003: Verify that the system sends automated reminders to attendees to complete surveys****

* **Preconditions:**

- * A successful event has concluded.

- * An attendee has registered for the event.

- * A post-event survey is configured.

* **Test Data:** One attendee email address.

* **Test Steps:**

- * Configure a system that sends automated email reminders to attendees.

- * Identify the email address of an attendee.

- * Simulate the required timeframe passing (e.g., after 24 hours).

- * Check the attendee's email for a reminder notification to complete the survey.

* **Postconditions:**

- * The attendee has received a reminder email to complete the post-event survey.

* **Expected Result:** The system sends a timely automated reminder email to the attendee, prompting them to complete the survey.

* **Severity:** Major

* **Priority:** High

* **Type of Testing:** Functional Testing

****(Continue to implement Test Case Details for TC_FED004 and TC_FED005 following the same**

Data - 134

Project name -

Event Management Platform

Project description -

Develop an event management platform for organizing and managing events, conferences, and gatherings. The platform should include features like event registration and ticketing, agenda management, attendee engagement tools, speaker and sponsor management, venue and logistics coordination, and analytics and reporting. Users should be able to create, promote, and manage events from start to finish, and attendees should be able to register, access event information, and interact with other participants.

Feature name -

Integration with Third-Party Tools

Feature description -

The system integrates with third-party tools and platforms such as payment gateways, CRM systems, and marketing automation tools. This feature enhances system functionality, facilitates data exchange, and provides organizers with flexibility and scalability.

Userstory title -

As an organizer, I want integration with third-party tools so that I can enhance the platform's functionality and streamline processes.

Acceptance criteria -

['The platform integrates with various payment gateways.', 'Data can be exchanged with CRM systems and marketing tools.', 'Organizers can set up and manage integrations through the platform.', 'Integration status and logs are available for monitoring.', 'Third-party tool integrations do not compromise data security.']

Generated Test Cases:

Test Cases for Event Management Platform - Third-Party Tool Integration

Test Case 1

Test Case ID: EMP-TPI-001

Test Case Title: Verify that the platform integrates with at least two different payment gateways.

Test Case Description:

This test case verifies the integration with multiple payment gateways, ensuring organizers have flexibility in choosing their preferred payment processing options.

Test Suite: Payment Integration

Test Priority: High

Preconditions:

- * Administrator access to the platform is granted.
- * Mock payment gateway APIs are configured and accessible.

****Test Data:****

- * Credentials for two different mock payment gateways (e.g., Stripe, PayPal).
- * Event details and ticket pricing information.

****Test Steps:****

1. Access the "Integrations" section of the platform as an administrator.
2. Navigate to the "Payment Gateway" section.
3. Add the first mock payment gateway using its provided credentials.
4. Add the second mock payment gateway using its provided credentials.
5. Create an event and configure tickets with pricing.
6. Attempt to make a test purchase through each payment gateway using the configured credentials.

****Postconditions:****

- * Platform logs show successful integrations with both payment gateways.

****Expected Result:****

Successful integration with both mock payment gateways, enabling organizers to set up and process payments.

****Severity:** High**

****Priority:** High**

****Type of Testing:** Integration Testing**

****Test Case Approach:** Positive**

****Test Case 2****

****Test Case ID:** EMP-TPI-002**

****Test Case Title:** Verify that data can be exchanged with a CRM system.**

****Test Case Description:****

This test case verifies the seamless exchange of event attendee data with a CRM system, ensuring streamlined marketing and communication efforts.

****Test Suite:** CRM Integration**

****Test Priority:** High**

****Preconditions:****

- * Access to a mock CRM system with an API interface.
- * Connection parameters for the mock CRM system configured in the platform.

****Test Data:****

- * Attendee details including name, email, contact information, and registration data.

****Test Steps:****

1. Configure the platform to connect with the mock CRM system using its API credentials.
2. Create a new event and allow attendees to register.
3. Upon successful registration, verify that attendee data is automatically transferred to the mock CRM system.

****Postconditions:****

* Logs in the platform and the mock CRM system confirm successful data transfer.

****Expected Result:****

Successful transfer of attendee data from the platform to the mock CRM system, enabling organizers to manage and leverage attendee information effectively.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Integration Testing**

****Test Case Approach:** Positive**

****Test Case 3****

****Test Case ID:** EMP-TPI-003**

****Test Case Title:** Verify that organizers can manage their third-party tool integrations within the platform.**

****Test Case Description:****

This test case ensures that organizers have a user-friendly interface to manage their integrated tools, activate/deactivate integrations, and update connection settings.

****Test Suite:**** Integration Management

****Test Priority:**** Medium

****Preconditions:****

- * Administrator access to the platform.
- * Integration setup with at least one third-party tool (e.g., CRM).

****Test Data:****

- * Existing integration credentials for a third-party tool.
- * Updated credentials for the same third-party tool.

****Test Steps:****

1. Log in as an organizer.
2. Navigate to the "Integrations" section of the platform.
3. Locate the integrated third-party tool and review its settings.
4. Deactivate the integration using the available option within the platform.
5. Reactivate the integration with updated credentials.

****Postconditions:****

* The platform interface updates to reflect the deactivated and reactivated status of the integration.

****Expected Result:****

Successful management of integrations by organizers, including deactivation, reactivation, and updating connection settings.

****Severity:** Minor**

****Priority:** Medium**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive, Negative**

Data - 135

Project name -

Event Management Platform

Project description -

Develop an event management platform for organizing and managing events, conferences, and gatherings. The platform should include features like event registration and ticketing, agenda management, attendee engagement tools, speaker and sponsor management, venue and logistics coordination, and analytics and reporting. Users should be able to create, promote, and manage events from start to finish, and attendees should be able to register, access event information, and interact with other participants.

Feature name -

Resource Management

Feature description -

Organizers can manage event resources such as equipment, materials, and personnel through the system. This feature helps organizers ensure that they have the necessary resources available to execute events successfully and efficiently.

Userstory title -

As an organizer, I want to manage event resources so that I can ensure all necessary equipment and personnel are available for the event.

Acceptance criteria -

['Organizers can track and manage equipment and materials.', 'The system supports scheduling and allocation of personnel.', 'Resource availability and allocation are tracked in real-time.', 'Organizers can generate reports on resource usage and allocation.', 'The platform provides alerts for low stock or resource shortages.']

Generated Test Cases:

Event Management Platform: Resource Management Test Cases

****Test Case ID:**** ERM-001

****Test Case Title:**** Verify that organizers can track and manage equipment and materials.

****Test Case Description:**** This test case verifies the ability of organizers to add, view, edit, and delete equipment and material items within the resource management module.

****Test Suite:**** Resource Management Feature

****Test Priority:**** High

****Preconditions:****

- * Organizers are logged in to the platform.
- * A new event has been created and selected.

****Test Data:**** List of sample equipment and materials (e.g., microphones, projectors, tables, chairs, signage, catering materials).

****Test Steps:****

1. Navigate to the "Resources" section within the event management dashboard.
2. Click "Add New Resource" and input details for a sample equipment item (name, type, quantity, description).
3. Verify the new resource is added to the list.
4. Edit the details of the added resource (e.g., quantity, description).
5. Confirm the changes are reflected in the resource list.
6. Delete the sample resource item.

****Postconditions:**** The list of resources within the event should reflect the additions, edits, and deletions made.

****Expected Result:**** The organizer can successfully add, edit, and delete equipment and material items within the resource management module.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** ERM-002

****Test Case Title:**** Verify that the system supports scheduling and allocation of personnel.

****Test Case Description:**** This test case verifies the functionality of assigning personnel to specific events, tasks, and time slots within the resource management module.

****Test Suite:**** Resource Management Feature

****Test Priority:**** High

****Preconditions:****

- * Organizers are logged in to the platform.
- * A new event has been created and selected.
- * A list of available personnel has been created in the system.

****Test Data:**** List of sample personnel (e.g., Event staff, Volunteers, Speakers), event schedule with tasks.

****Test Steps:****

1. Navigate to the "Personnel" section within the event management dashboard.
2. Select a personnel member from the list and assign them to the event.
3. Using a calendar or scheduling tool, allocate the selected personnel to specific tasks and time slots within the event schedule.
4. Verify the personnel allocation is reflected in both the personnel profile and the event schedule.
5. Attempt to double-book the selected personnel for conflicting tasks or time slots.

****Postconditions:**** No overlap in personnel assignments during the event duration.

****Expected Result:**** Organizers can successfully schedule and allocate personnel to tasks and time slots within the event. The system should prevent conflicting bookings.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive & Negative

****Test Case ID:** ERM-003**

****Test Case Title:** Verify that resource availability and allocation are tracked in real-time.**

****Test Case Description:** This test case validates the real-time tracking of available resources and their allocation status within the platform.**

****Test Suite:** Resource Management Feature**

****Test Priority:** High**

****Preconditions:****

- * Organizers are logged in to the platform.
- * A new event has been created and selected.
- * Several resources (equipment or personnel) have been added to the event.

****Test Data:** Data demonstrating real-time resource usage and availability changes (e.g., equipment being reserved, personnel clocking in/out).**

****Test Steps:****

1. View the real-time resource availability dashboard.
2. Simulate resource allocation to events through various actions (e.g., booking equipment, assigning personnel).

3. Observe the corresponding updates in real-time resource availability displays.

4. Attempt to allocate resources that are already fully booked.

****Postconditions:**** The resource availability dashboard reflects the latest allocation changes accurately.

****Expected Result:**** Resource availability and allocation are displayed and updated in real-time, providing a clear and accurate overview of current resource status. The system should prevent booking of already allocated resources.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing & Performance Testing

****Test Case Approach:**** Positive & Negative

****Test Case ID:**** ERM-004

****Test Case Title:**** Verify that organizers can generate reports on resource usage and allocation.

****Test Case Description:**** This test case assesses the functionality of generating reports that summarize resource usage and allocation for a specific event or period.

****Test Suite:**** Resource Management Feature

****Test Priority:** Medium**

****Preconditions:****

- * Organizers are logged in to the platform.
- * Data related to resource allocation and usage has been entered into the system for a chosen event or period.

****Test Data:**** Sample event data with resource allocations and usage history.

****Test Steps:****

1. Navigate to the "Reports" section within the Resource Management module.
2. Select the desired reporting options (e.g., event, date range, resource type).
3. Generate the resource usage report.
4. Verify the report displays relevant information (resource type, quantity used, allocation status, etc.)
5. Export the report in a suitable format (e.g., PDF, CSV).

****Postconditions:**** No errors encountered during report generation or export.

****Expected Result:**** The system generates comprehensive reports on resource usage and allocation as desired, providing organizers with valuable insights into resource management practices.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional Testing & Regression Testing**

****Test Case Approach:**** Positive

****Test Case ID:**** ERM-005

****Test Case Title:**** Verify that the platform provides alerts for low stock or resource shortages.

****Test Case Description:**** This test case tests the functionality of alerts that notify organizers when resources are running low or in danger of becoming unavailable.

****Test Suite:**** Resource Management Feature

****Test Priority:**** Medium

****Preconditions:****

- * Organizers are logged in to the platform.
- * A new event has been created and selected.

****Test Data:**** Initial stock levels defined for resources with low threshold values.

****Test Steps:****

1. Set low-stock thresholds for specific resources within the event's resource settings.
2. Decrease the quantity of the chosen resource below the defined threshold.
3. Verify that the system sends a notification alert to the organizer regarding the low stock.

****Postconditions:**** The organizer acknowledges the low-stock alert.

****Expected Result:**** The platform effectively triggers notifications (e.g., email, in-app messages) when resource levels fall below predefined thresholds, allowing organizers to take timely action to address potential shortages.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing & Alert Management Testing

****Test Case Approach:**** Positive

Data - 136

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and

supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Reordering

Feature description -

Users can set up automatic reorder points and reorder quantities for inventory items based on demand forecasts, lead times, and safety stock levels. This feature streamlines the procurement process, ensures timely replenishment of inventory, and prevents stockouts or excess inventory buildup.

Userstory title -

As a user, I want to automate inventory reordering so that I can ensure timely replenishment and avoid stockouts.

Acceptance criteria -

['Users can set reorder points and quantities for inventory items.', 'The system automatically generates purchase orders when stock levels reach reorder points.', 'Users receive notifications about reorder events.', 'Reorder settings can be customized per item.', 'The system tracks reorder history and performance.']

Generated Test Cases:

Test Cases for Inventory Reordering Feature

****Test Case ID:**** TC_INV_REORDER_001

****Test Case Title:**** Verify that reorder points can be set for inventory items.

****Test Case Description:**** This test case verifies the functionality of setting reorder points for individual inventory items.

****Test Suite:**** Inventory Management

****Test Priority:**** High

****Preconditions:****

- An administrator user is logged in.
- At least one inventory item exists in the system.

****Test Data:**** Sample reorder point value (e.g., 10 units).

****Test Steps:****

1. Navigate to the Inventory Management module.
2. Select the desired inventory item.
3. Access the item's settings.
4. Enter the specified reorder point value in the designated field.
5. Save the changes.

****Postconditions:****

- The updated reorder point value is reflected in the item's settings.

****Expected Result:**** The system successfully saves the new reorder point without any errors.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_INV_REORDER_002

****Test Case Title:**** Verify that reorder quantities can be set for inventory items.

****Test Case Description:**** This test case verifies the ability to define reorder quantities for inventory items.

****Test Suite:**** Inventory Management

****Test Priority:**** High

****Preconditions:****

- An administrator user is logged in.
- At least one inventory item exists in the system with a set reorder point.

****Test Data:**** Sample reorder quantity value (e.g., 25 units).

****Test Steps:****

1. Navigate to the Inventory Management module.
2. Select the desired inventory item.
3. Access the item's settings.
4. Enter the specified reorder quantity value in the designated field.
5. Save the changes.

****Postconditions:****

- The updated reorder quantity value is reflected in the item's settings.

****Expected Result:**** The system successfully saves the new reorder quantity without errors.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_INV_REORDER_003

****Test Case Title:**** Verify that purchase orders are automatically generated when stock levels reach reorder points.

****Test Case Description:**** This test case simulates a scenario where stock levels drop below the defined reorder point, triggering the automatic generation of a purchase order.

****Test Suite:**** Inventory Management

****Test Priority:**** High

****Preconditions:****

- An administrator user is logged in.
- An inventory item exists with a set reorder point and reorder quantity.

- The stock level of the item is below its reorder point.

****Test Data:****

- Updated inventory level below the reorder point.

****Test Steps:****

1. Before running the test, track the initial purchase order count.
2. Allow simulated time to pass (or trigger the stock level update programmatically).
3. Verify that a new purchase order has been generated for the item.
4. Compare the final purchase order count to the initial count after the test.

****Postconditions:****

- The purchase order is delivered to the correct supplier.

****Expected Result:**** The system automatically generates a purchase order for the specified reorder quantity when the stock level falls below the set reorder point.

****Severity:**** High

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_INV_REORDER_004

****Test Case Title:**** Verify that users receive notifications about reorder events.

****Test Case Description:**** This test case ensures that users are notified when reorder events occur, such as when a purchase order is generated or when stock levels reach a certain point.

****Test Suite:**** Inventory Management

****Test Priority:**** Medium

****Preconditions:****

- An administrator user is logged in.
- An inventory item exists with a set reorder point and reorder quantity.

- User notification settings are configured.

****Test Data:**** Sample notification email address.

****Test Steps:****

1. Track the initial number of unread notifications.
2. Allow simulated time to pass (or trigger the stock level update programmatically) until the reorder point is reached.
3. Log in as the user with configured notification settings.
4. Verify that a new notification regarding the purchase order generation is present.
5. Check the notification content for accuracy.

****Postconditions:****

- The notification is acknowledged by the user.

****Expected Result:**** The user receives a timely and accurate notification about the reorder event.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_INV_REORDER_005

****Test Case Title:**** Verify that reorder settings can be customized per item.

****Test Case Description:**** This test case validates the system's ability to configure unique reorder settings for individual inventory items.

****Test Suite:**** Inventory Management

****Test Priority:**** Medium

****Preconditions:****

- An administrator user is logged in.
- At least two inventory items exist in the system.

****Test Data:**** Different reorder point and reorder quantity values for each item.

****Test Steps:****

1. Access the settings for the first inventory item.
2. Enter the first set of reorder point and quantity values.
3. Save the settings.

4. Access the settings for the second inventory item.
5. Enter the second set of reorder point and quantity values, different from the first item.
6. Save the settings.
7. Verify that the reorder settings for both items are distinct and are stored correctly.

****Postconditions:****

- The changes are saved for each individual item.

****Expected Result:**** The system successfully applies individual reorder settings for each inventory item without conflicts or errors.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Remark:**** This is just a starting point and may require further expansion depending on the specific requirements and functionalities of the Inventory Management System.

Data - 137

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Supplier Management

Feature description -

The system manages supplier information such as contact details, pricing agreements, and lead times for inventory items sourced from external suppliers. This feature helps users maintain good supplier relationships, negotiate favorable terms, and track supplier performance.

Userstory title -

As a user, I want to manage supplier information so that I can maintain good relationships and track performance.

Acceptance criteria -

['Users can add and edit supplier contact details and agreements.', 'The system tracks supplier performance metrics.', 'Users can view and manage pricing agreements and lead times.', 'Supplier information is accessible for purchase order creation.', 'Users receive alerts for supplier-related updates or issues.']

Generated Test Cases:

Test Cases for Supplier Management Feature

****Test Case ID:**** SM-001

****Test Case Title:**** Verify that users can add a new supplier with valid contact details and pricing agreements.

****Test Case Description:**** This test case verifies the functionality of adding a new supplier to the system, ensuring that all mandatory fields (contact information, pricing agreements) are correctly populated and stored.

****Test Suite:**** Supplier Management

****Test Priority:**** High

****Preconditions:****

* Logged in as a user with appropriate permissions to add suppliers.

* System is in a known good state.

****Test Data:****

* Sample supplier information including name, address, phone number, email, lead times, and pricing agreements.

****Test Steps:****

1. Navigate to the Supplier Management module.
2. Click on the "Add New Supplier" button.
3. Enter valid supplier information in all required fields.
4. Save the new supplier record.
5. Verify that the new supplier is listed in the supplier list.
6. View the supplier details and confirm that all provided information is accurately displayed.

****Postconditions:****

- * The new supplier record remains accessible in the system.
- * No error messages are displayed during the process.

****Expected Result:**** The new supplier is successfully added to the system with accurate contact details and pricing agreements.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing, Integration Testing

****Test Case Approach:**** Positive

****Test Case ID:**** SM-002

****Test Case Title:**** Verify that users can edit existing supplier details and agreements.

****Test Case Description:**** This test case verifies the functionality of editing existing supplier information, including contact details and pricing agreements.

****Test Suite:**** Supplier Management

****Test Priority:**** High

****Preconditions:****

- * Logged in as a user with appropriate permissions to edit suppliers.
- * An existing supplier record is available in the system.

****Test Data:****

- * Existing supplier record with minimal default information.

* Updated supplier information including updated contact details and modified pricing agreements.

****Test Steps:****

1. Navigate to the Supplier Management module.
2. Locate the existing supplier record.
3. Click on the "Edit Supplier" button.
4. Modify the supplier's contact details and pricing agreements.
5. Save the changes.
6. View the updated supplier details and confirm that the changes are reflected.

****Postconditions:****

- * The supplier record with updated information is accessible in the system.
- * No error messages are displayed during the process

****Expected Result:**** Existing supplier details and pricing agreements are successfully edited.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing, Integration Testing

****Test Case Approach:**** Positive

****Test Case ID:**** SM-003

****Test Case Title:**** Verify that system tracks supplier performance metrics.

****Test Case Description:**** This test case verifies the system's ability to track supplier performance metrics, such as on-time delivery rates and order fulfillment accuracy.

****Test Suite:** Supplier Management**

****Test Priority:** High**

****Preconditions:****

- * The system has been set up to track supplier performance metrics.
- * There are existing purchase orders associated with different suppliers.
- * Supplier deliveries and order fulfillments have been recorded.

****Test Data:****

- * Purchase orders for various items from multiple suppliers.

****Test Steps:****

1. Navigate to the "Supplier Performance" section within the Supplier Management module.
2. Verify that the system displays key performance metrics for each supplier, such as:
 - * On-Time Delivery Rate
 - * Order Fulfillment Accuracy
 - * Average Lead Time
3. Ensure that metric values are calculated accurately based on available purchase order data.
4. Sort and filter supplier listings based on different performance metrics.

****Postconditions:****

- * The supplier performance dashboard remains accessible.
- * No error messages are displayed during the process.

****Expected Result:**** The system displays accurate supplier performance metrics and allows for sorting and filtering based on various criteria.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing, Regression Testing**

****Test Case Approach:** Positive, Regression**

****Test Case ID:** SM-004**

****Test Case Title:** Verify that users can view and manage pricing agreements for individual suppliers.**

****Test Case Description:** This test case verifies the functionality of managing pricing agreements for suppliers, including viewing existing agreements and updating contract details.**

****Test Suite:** Supplier Management**

****Test Priority:** High**

****Preconditions:****

* System is in a known good state.

* Logged in as a user with appropriate permissions to manage pricing agreements.

* An existing supplier record with pricing agreements is present in the system.

****Test Data:****

* Sample pricing agreement details for an existing supplier (e.g., product, unit price, minimum order quantity).

****Test Steps:****

1. Navigate to the Supplier Management module.

2. Locate the target supplier.

3. Access the "Pricing Agreements" section for the selected supplier.

4. Review existing pricing agreements for the supplier.

5. Modify an existing pricing agreement by updating relevant details.
6. Save the changes and verify that the update is reflected in the pricing agreement list.
7. Attempt to add a new pricing agreement for a different product.

****Postconditions:****

- * Pricing agreements remain accessible within the supplier profile.
- * No error messages are displayed during the process.

****Expected Result:**** Users can successfully view, modify, and add new pricing agreements for suppliers.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing, Integration Testing

****Test Case Approach:**** Positive

****Test Case ID:**** SM-005

****Test Case Title:**** Verify that users receive alerts for relevant supplier updates.

****Test Case Description:**** This test case verifies the functionality of sending alerts to users regarding important supplier updates, such as price changes, lead time adjustments, or shipment delays.

****Test Suite:**** Supplier Management

****Test Priority:**** Medium

****Preconditions:****

- * System is configured to send notifications for specific supplier events.

- * User has an active notification preference for selected supplier updates (e.g., price changes).
- * A sample supplier update trigger (e.g., price increase) is initiated within the system.

****Test Data:****

- * Supplier profile with configured notification settings.

****Test Steps:****

1. Initiate a pre-defined supplier update that triggers an alert (e.g., update a supplier's product price).
2. Verify that the user receives an alert notification about the supplier update based on their configured preferences.
3. Navigate to the supplier profile and confirm that the update is reflected in the system (e.g., the updated price is visible).

****Postconditions:****

- * User receives suitable notifications for relevant supplier changes.

****Expected Result:**** The system successfully sends alerts to users based on configured preferences for specific supplier updates.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Non-Functional Testing (Usability)

****Test Case Approach:**** Positive, Negative

Data - 138

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Purchase Order Management

Feature description -

Users can create, track, and manage purchase orders for inventory replenishment from suppliers. This feature facilitates communication with suppliers, ensures accurate and timely order placement, and provides visibility into the status of purchase orders from creation to fulfillment.

Userstory title -

As a user, I want to manage purchase orders so that I can ensure timely and accurate inventory replenishment.

Acceptance criteria -

['Users can create and edit purchase orders for inventory items.', 'The system tracks purchase order status from creation to fulfillment.', 'Users can communicate with suppliers through the system.', 'Purchase orders include detailed item, quantity, and pricing information.', 'Users receive notifications for purchase order updates.']

Generated Test Cases:

Test Cases for Purchase Order Management Feature

Based on the provided User Story and Acceptance Criteria, here are five detailed test cases for the Inventory Management System's Purchase Order Management feature:

****Test Case 1****

****Test Case ID:**** POT-001

****Test Case Title:**** Verify that users can create a purchase order for inventory items.

****Test Case Description:**** This test case verifies the functionality of creating a new purchase order for inventory items, including specifying item details, quantities, and pricing.

****Test Suite:**** Purchase Order Management

****Test Priority:**** High

****Preconditions:****

- * User is logged into the system with appropriate permissions.
- * At least one inventory item exists in the system.

****Test Data:**** Sample inventory item details (name, description, unique ID, unit price, etc.)

****Test Steps:****

1. Navigate to the "Purchase Orders" section of the system.
2. Click on the "Create New Purchase Order" button.
3. Select the desired inventory item(s) from the list.
4. Enter the required quantity for each selected item.
5. Specify the unit price for each item.
6. Review and submit the purchase order.

****Postconditions:****

- * A new purchase order is created in the system with the specified details.
- * The purchase order displays a unique ID and status indicating its creation.

****Expected Result:**** A new purchase order is successfully created with all provided details.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Acceptance Testing

****Test Case Approach:**** Positive

****Test Case 2****

****Test Case ID:**** POT-002

****Test Case Title:**** Verify that users can edit an existing purchase order.

****Test Case Description:**** This test case verifies the functionality of editing an existing purchase order, including updating item quantities, prices, and supplier information.

****Test Suite:**** Purchase Order Management

****Test Priority:**** High

****Preconditions:****

- * A purchase order has been previously created in the system.
- * User is logged into the system with appropriate permissions.

****Test Data:**** Original purchase order ID and details.

****Test Steps:****

1. Navigate to the "Purchase Orders" section of the system.
2. Locate the existing purchase order and click on it.
3. Edit the quantity of one or more items on the purchase order.
4. Change the unit price for one or more items on the purchase order.
5. Save the edited purchase order.

****Postconditions:****

- * The purchase order is updated with the new details.

* The system displays a confirmation message indicating successful update.

****Expected Result:**** The purchase order is successfully edited with the new information.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Acceptance Testing

****Test Case Approach:**** Positive

****Test Case 3****

****Test Case ID:**** POT-003

****Test Case Title:**** Verify that the system tracks purchase order status from creation to fulfillment.

****Test Case Description:**** This test case verifies that the system accurately tracks the status of a purchase order throughout its lifecycle, from creation to fulfillment, and displays the appropriate status updates to the user.

****Test Suite:**** Purchase Order Management

****Test Priority:**** High

****Preconditions:****

* A purchase order has been created in the system.

****Test Data:**** Purchase order ID.

****Test Steps:****

1. Track the stages of the purchase order through the system (e.g., "Created," "Submitted to Supplier," "Awaiting Supplier Confirmation," "Approved," "Fulfilled," "Delivered").
2. Monitor the status updates displayed for the purchase order.

****Postconditions:****

- * The system accurately reflects the current status of the purchase order.
- * Status updates are displayed promptly as changes occur.

****Expected Result:**** The system consistently tracks and displays the accurate status of the purchase order at each stage.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Acceptance Testing

****Test Case Approach:**** Positive

****Test Case 4****

****Test Case ID:** POT-004**

****Test Case Title:** Verify that users can communicate with suppliers through the system.**

****Test Case Description:** This test case verifies the functionality of sending and receiving messages with suppliers regarding purchase orders.**

****Test Suite:** Purchase Order Management**

****Test Priority:** Medium**

****Preconditions:****

- * A purchase order has been created in the system.
- * A supplier account exists for the relevant purchase order.

****Test Data:** Sample message content.**

****Test Steps:****

1. Navigate to the purchase order details.
2. Click the "Message Supplier" button.
3. Enter a message to the supplier.
4. Send the message.
5. Verify that the supplier receives the message (if possible through a simulated response)

****Postconditions:****

- * The message is sent from the system to the supplier.
- * The system displays a confirmation message for successful sending.
- * (Optional) The supplier responds to the message.

****Expected Result:**** The message is successfully delivered to the supplier.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Acceptance Testing

****Test Case Approach:**** Positive (Simulated Response)

****Test Case 5****

****Test Case ID:**** POT-005

****Test Case Title:**** Verify that users receive notifications for purchase order updates.

****Test Case Description:**** This test case verifies that users receive timely notifications regarding important updates to their purchase orders.

****Test Suite:**** Purchase Order Management

****Test Priority:** Medium**

****Preconditions:****

* A purchase order has been created in the system.

****Test Data:**** User email address or notification preference settings.

****Test Steps:****

1. Set up email or other notification preferences for purchase order updates.
2. Initiate a change in the purchase order status (e.g., supplier confirms order, purchase order is shipped).
3. Verify that the user receives the corresponding notification.

****Postconditions:****

- * The user receives a notification about the purchase order update.
- * The notification includes relevant information about the change.

****Expected Result:**** Users receive timely notifications for all relevant purchase order updates.

****Severity:** Mild**

****Priority:** Medium**

****Type of Testing:**** Functional Testing, Acceptance Testing

****Test Case Approach:**** Positive (Simulating Notification Event)

These test cases provide a comprehensive foundation for ensuring the quality and functionality of the Purchase Order Management feature within the Inventory Management System. Remember that these are starting points, and further test cases may be needed depending on the specific implementation details and potential edge cases.

Data - 139

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Sales Order Management

Feature description -

The system manages sales orders received from customers, including order processing, order fulfillment, and order status tracking. This feature helps users manage order fulfillment workflows efficiently, prioritize orders

based on demand or urgency, and provide customers with accurate order status updates.

Userstory title -

As a user, I want to manage sales orders so that I can ensure efficient order fulfillment and provide accurate status updates to customers.

Acceptance criteria -

['Users can create and edit sales orders for customer purchases.', 'The system tracks sales order status from creation to fulfillment.', 'Users can prioritize sales orders based on demand or urgency.', 'Sales orders include detailed item, quantity, and pricing information.', 'Users receive notifications for sales order updates.']

Generated Test Cases:

Inventory Management System: Sales Order Management Test Cases

****User Story:**** As a user, I want to manage sales orders so that I can ensure efficient order fulfillment and provide accurate status updates to customers.

****Feature:**** Sales Order Management

Test Case 1:

****Test Case ID:**** TC_SOM_001

****Test Case Title:**** Verify that users can create a new sales order with valid data.

****Test Case Description:**** This test case verifies the user's ability to create a new sales order with required information like customer details, items, quantities, and pricing.

****Test Suite:**** Sales Order Management

****Test Priority:**** High

****Preconditions:****

* A valid user account exists with appropriate permissions.

* The system is running and responsive.

* A list of products is available in the system.

****Test Data:****

* Customer information (name, address, contact details)

* List of products to be included in the order with their corresponding quantities and prices.

****Test Steps:****

1. Log in to the Inventory Management System as a user with permission to create sales orders.

2. Navigate to the "Sales Orders" module.

3. Click on the "Create New Order" button.

4. Enter the required customer details and select the customer from the dropdown list.

5. Add the desired products to the sales order, specifying the quantity for each product.

6. Confirm the order details, including pricing and total amount.

7. Submit the sales order.

****Postconditions:****

* A new sales order is created and assigned a unique order ID.

* The order details are displayed in the system, including customer information, products, quantities, pricing, and total amount.

****Expected Result:**** The sales order is successfully created, and the user is redirected to the order confirmation page.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Let's continue building this out! I can create the rest of your test cases using the same format, focusing on remaining acceptance criteria and various test scenarios.

Would you like me to add test cases covering:

* **Editing sales orders?**

* **Prioritizing sales orders?**

* **Order status tracking (various statuses)?

* **Notification functionality for order updates?**

Data - 140

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Valuation

Feature description -

The system calculates the value of inventory on hand using various valuation methods such as FIFO (First In, First Out) or LIFO (Last In, First Out). This feature provides users with accurate inventory valuation for financial reporting purposes, tax compliance, and decision-making related to inventory investments.

Userstory title -

As a user, I want to calculate the value of inventory so that I can ensure accurate financial reporting and compliance.

Acceptance criteria -

['Users can select from different inventory valuation methods.', 'The system calculates inventory value using the selected method.', 'Valuation calculations include all relevant costs (e.g., purchase, handling).', 'Users can generate reports on inventory valuation.', 'The system ensures compliance with financial reporting standards.']

Generated Test Cases:

Inventory Management System: Test Cases for Inventory Valuation Feature

****User Story:**** As a user, I want to calculate the value of inventory so that I can ensure accurate financial reporting and compliance.

****Test Case 1****

*** **Test Case ID:**** TC_INV_VAL_001

*** **Test Case Title:**** Verify that the system allows users to select different inventory valuation methods.

*** **Test Case Description:**** This test case verifies that the user interface provides options for selecting various inventory valuation methods, including FIFO and LIFO.

*** **Test Suite:**** Inventory Valuation Feature

* **Test Priority:** High

* **Preconditions:**

- * User is logged in to the system with appropriate permissions.

- * Inventory data is available in the system.

* **Test Data:** N/A

* **Test Steps:**

1. Navigate to the inventory valuation module.
2. Access the settings or configuration section.
3. Verify that options for selecting valuation methods (e.g., FIFO, LIFO) are present.
4. Select a valuation method (e.g., FIFO).
5. Confirm that the selected method is displayed prominently.

* **Postconditions:**

- * The user interface displays the selected valuation method.

* **Expected Result:** The user interface displays options for selecting different inventory valuation methods.

****Test Case 2****

* **Test Case ID:** TC_INV_VAL_002

* **Test Case Title:** Verify that the system calculates inventory value accurately using the selected method.

* **Test Case Description:** This test case verifies that the system accurately calculates the inventory value based on the selected valuation method, considering various costs associated with inventory.

* **Test Suite:** Inventory Valuation Feature

* **Test Priority:** High

* **Preconditions:**

- * User is logged in to the system with appropriate permissions.
- * Inventory data is available in the system.
- * FIFO method is selected as the valuation method (can be changed for LIFO)

* **Test Data:**

- * List of inventory items with purchase dates, quantities, and costs.

* **Test Steps:**

1. Add sample inventory items with different purchase dates and costs.
2. Ensure that all relevant costs (purchase, handling, etc.) are captured for each item.
3. Generate an inventory valuation report.
4. Verify that the calculated inventory value matches the expected value based on the selected valuation method (FIFO/LIFO).

* **Postconditions:**

- * Inventory Valuation report is generated.

* **Expected Result:** The system calculates inventory value accurately using the selected valuation method.

Test Case 3

* **Test Case ID:** TC_INV_VAL_003

* **Test Case Title:** Verify that the system generates reports on inventory valuation.

* **Test Case Description:** This test case verifies that the system generates comprehensive reports on inventory valuation, including details like items, quantities, costs, and calculated values.

* **Test Suite:** Inventory Valuation Reporting

* **Test Priority:** High

****Preconditions:****

- * User is logged in to the system with appropriate permissions.
- * There are inventory items with assigned costs.

****Test Data:**** Access to the inventory management system.

****Test Steps:****

1. Navigate to the inventory valuation report section.
2. Select the desired date range for the report.
3. Generate the inventory valuation report.
4. Verify that the report includes details about:
 - * Inventory items
 - * Quantities on hand
 - * Purchase costs
 - * Other relevant costs (handling, shipping)
 - * Calculated total value using the selected valuation method

****Postconditions:****

- * An inventory valuation report is generated.

****Expected Result:**** The system generates a comprehensive report on inventory valuation, including all relevant data points.

****Test Case 4****

****Test Case ID:**** TC_INV_VAL_004

****Test Case Title:**** Verify the system handles zero inventory quantities correctly.

****Test Case Description:**** This test case ensures the system accurately calculates value when inventory quantity for an item is zero.

* **Test Suite:** Inventory Valuation - Edge Cases

* **Test Priority:** Medium

* **Preconditions:**

- * User is logged in with appropriate permissions.

- * Inventory data is available.

* **Test Data:**

- * Items with zero inventory on hand.

* **Test Steps:**

1. Find an item with a zero inventory quantity.

2. Generate an inventory valuation report.

3. Verify that the system reports the value for this item as zero, regardless of its cost.

* **Postconditions:**

- * Inventory valuation report is generated.

* **Expected Result:** The system accurately reflects zero value for items with zero inventory quantity.

Test Case 5

* **Test Case ID:** TC_INV_VAL_005

* **Test Case Title:** Verify that the system handles negative inventory quantities gracefully.

* **Test Case Description:** This test case checks the system's response to negative inventory quantities, ensuring it provides an appropriate error message or warning.

* **Test Suite:** Inventory Valuation - Error Handling

* **Test Priority:** Medium

* **Preconditions:**

- * User is logged in with appropriate permissions.

- * Inventory data is available.

* **Test Data:**

- * Attempt to adjust inventory quantity to a negative value.

* **Test Steps:**

1. Attempt to update the quantity of an existing item to a negative value.
2. Observe the system's response (error message, warning, or system halt).
3. Record the type and content of the error message (if applicable).

* **Postconditions:**

- * The system prevents the negative inventory quantity adjustment.

* **Expected Result:**

- * The system prevents the creation of negative inventory quantities and displays an error message or warning indicating the invalid input.

Data - 141

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and

supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Forecasting

Feature description -

Users can generate inventory forecasts and demand projections based on historical sales data, seasonal trends, and market analysis. This feature helps users anticipate future inventory requirements, optimize inventory levels, and plan inventory investments more effectively to meet customer demand.

Userstory title -

As a user, I want to forecast inventory requirements so that I can plan for future demand and optimize inventory levels.

Acceptance criteria -

['Users can access historical sales data and trends.', 'The system provides tools for forecasting inventory demand.', 'Forecasts include seasonal and market trend adjustments.', 'Users can generate reports on forecasted inventory needs.', 'The system supports data export for further analysis.']

Generated Test Cases:

Inventory Management System - Test Cases for Inventory Forecasting

****Test Case ID:**** IMS_001

****Test Case Title:**** Verify that users can access historical sales data and trends.

****Test Case Description:**** This test case verifies the functionality of accessing historical sales data and identifying relevant trends within the system.

****Test Suite:**** Inventory Forecasting

****Test Priority:**** High

****Preconditions:****

- System is logged in as a user with appropriate permissions.
- Historical sales data has been successfully imported or generated within the system.

****Test Data:**** Sample sales data spanning at least 6 months with varying trends.

****Test Steps:****

1. Navigate to the "Inventory Forecasting" module.
2. Access the "Historical Sales Data" section.
3. View the sales data for the selected period, verifying its accuracy and completeness.
4. Utilize the system's trend visualization tools (e.g., charts, graphs) to analyze sales patterns and identify trends.
5. Filter the sales data by product, category, or time period and verify the accuracy of the filtered trends.

****Postconditions:**** Data remains accessible for future analysis.

****Expected Result:****

- System successfully displays historical sales data accurately and comprehensively.
- Trend visualization tools accurately represent sales patterns and historical trends.
- Filtering options effectively isolate specific data sets for trend analysis.

****Severity:**** Critical

****Priority:**** High

****Test Case ID:**** IMS_002

****Test Case Title:**** Verify that the system provides tools for forecasting inventory demand.

****Test Case Description:**** This test case validates the functionality of the system's demand forecasting tools.

****Test Suite:**** Inventory Forecasting

****Test Priority:**** High

****Preconditions:****

- System is logged in as a user with appropriate permissions.
- Historical sales data has been successfully imported or generated within the system.

****Test Data:**** Sample historical sales data with clear trends and seasonality.

****Test Steps:****

1. Navigate to the "Inventory Forecasting" module.
2. Select the desired forecasting tool (e.g., statistical model, time series analysis).
3. Input relevant parameters for the forecasting tool (e.g., forecast period, product, demand driver).
4. Generate a demand forecast report.
5. Analyze the generated forecast, verifying its accuracy and alignment with historical trends and user-defined parameters.

****Postconditions:****

- Forecast report is saved for future reference and analysis.

****Expected Result:****

- System accurately generates a demand forecast report based on selected parameters and historical data.
- Forecast aligns with identified historical trends and accounts for potential seasonality or market fluctuations.
- Users can easily interpret and understand the generated forecast.

****Severity:** Critical**

****Priority:** High**

****Test Case ID:** IMS_003**

****Test Case Title:** Verify that forecasts include seasonal and market trend adjustments.**

****Test Case Description:** This test case evaluates the system's ability to incorporate seasonal and market trends into demand forecasts.**

****Test Suite:** Inventory Forecasting**

****Test Priority:** High**

****Preconditions:****

- System is logged in as a user with appropriate permissions.
- Historical sales data includes seasonal variations and market trend information.

****Test Data:** Sample historical sales data with significant seasonal fluctuations and observable market trends.**

****Test Steps:****

1. Navigate to the "Inventory Forecasting" module.
2. Select a forecasting tool that incorporates seasonal and market trend adjustments.
3. Input relevant parameters for the forecast (e.g., forecast period, product).
4. Generate a demand forecast report.
5. Analyze the report, verifying that the forecast accurately reflects:
 - Seasonal peaks and troughs
 - The impact of identified market trends on demand

****Postconditions:** Forecast report reflects incorporated seasonal and market trend adjustments.**

****Expected Result:****

- The generated forecast accurately captures seasonal patterns and adjusts demand projections accordingly.
- Market trend analysis is reflected in the forecast, predicting potential shifts in demand due to external factors.

****Severity:** High**

****Test Case ID:** IMS_004**

****Test Case Title:** Verify that users can generate reports on forecasted inventory needs.**

****Test Case Description:** This test case examines the generation and functionality of reports detailing forecasted inventory requirements.**

****Test Suite:** Inventory Forecasting**

****Test Priority:** High**

****Preconditions:****

- System is logged in as a user with appropriate permissions.
- A valid demand forecast has been generated.

****Test Data:** Forecasted demand data for a range of products and time periods.**

****Test Steps:****

1. Navigate to the "Inventory Forecasting" module.
2. Access the "Reports" section.
3. Select the "Forecasted Inventory Needs" report template.
4. Customize the report parameters (e.g., product filter, forecast period).
5. Generate the report.
6. Review the report, verifying:
 - Accurate display of forecasted inventory needs for each product

- A clear visualization or summary of overall inventory projections
- Included time frame alignment with the selected forecast period

****Postconditions:****

- Generated report is saved for future reference and analysis.

****Expected Result:****

- System successfully generates a comprehensive report detailing forecasted inventory needs for the specified timeframe and products.
- Report provides clear insights into anticipated inventory demands, facilitating informed strategic planning.

****Severity:** Major**

****Priority:** High**

****Test Case ID:** IMS_005**

****Test Case Title:** Verify data export functionality in Inventory Forecasting module.**

****Test Case Description:**** This test case validates the ability to export forecasted data for further analysis in external tools.

****Test Suite:** Inventory Forecasting**

****Test Priority:** Medium**

****Preconditions:****

- System is logged in as a user with appropriate permissions.

- A valid demand forecast has been generated.

****Test Data:**** Forecasted demand data for multiple products and time periods.

****Test Steps:****

1. Navigate to the "Inventory Forecasting" module.
2. Access the "Reports" section.
3. Generate the "Forecasted Inventory Needs" report with desired parameters.
4. Locate the data export option within the report interface.
5. Select the preferred export format (e.g., CSV, Excel).
6. Save the exported data file to a designated location.
7. Open the exported file and verify the integrity of the data.

****Postconditions:**** Exported data is accessible for analysis outside the Inventory Management System.

****Expected Result:****

- System successfully exports forecasted data in the selected format.
- Exported data accurately reflects the information displayed in the "Forecasted Inventory Needs" report.
- The data is formatted correctly for import into external analysis tools.

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Batch and Lot Tracking

Feature description -

The system tracks inventory items by batch or lot numbers, enabling traceability and accountability throughout the supply chain. This feature is particularly useful for industries such as food and pharmaceuticals where product safety and compliance with regulatory requirements are critical.

Userstory title -

As a user, I want to track inventory by batch or lot numbers so that I can ensure traceability and compliance with regulatory requirements.

Acceptance criteria -

['Users can assign batch or lot numbers to inventory items.', 'The system tracks inventory movements by batch or lot number.', 'Users can trace the history of a batch or lot through the system.', 'Batch or lot tracking includes production, storage, and distribution details.', 'The system supports compliance with regulatory requirements.']

Generated Test Cases:

Test Cases for Batch and Lot Tracking Feature

Project Name: Inventory Management System

****Feature Name:** Batch and Lot Tracking**

****User Story:**** As a user, I want to track inventory by batch or lot numbers so that I can ensure traceability and compliance with regulatory requirements.

Test Case 1

****Test Case ID:** ITC-BLT-001**

****Test Case Title:**** Verify that users can assign batch or lot numbers to inventory items.

****Test Case Description:**** This test case verifies the functionality of assigning batch or lot numbers to newly added inventory items during the creation process.

****Test Suite:**** Inventory Management Feature Suite

****Test Priority:**** High

****Preconditions:****

- * A new inventory item with "configurable" lot/batch options enabled.
- * Admin user is logged in.

****Test Data:****

- * New inventory item details (name, description, category, etc.)
- * Unique Batch/Lot number

****Test Steps:****

1. Navigate to the "Inventory" module within the system.
2. Click on the "Add New Item" button.
3. Fill in the necessary details for the new inventory item.

4. In the designated field, enter the unique batch or lot number for the item.

5. Review the entered information and click "Save".

****Postconditions:****

* The new inventory item is successfully added to the system.

* The entered batch or lot number is displayed for the new item.

****Expected Result:**** The system successfully assigns the entered batch or lot number to the newly created inventory item.

****Severity:**** High

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 2

****Test Case ID:**** ITC-BLT-002

****Test Case Title:**** Verify that the system tracks inventory movements by batch or lot number.

****Test Case Description:**** This test case confirms that the system accurately records individual item movements (e.g., purchase, sale, transfer) linked to specific batch/lot numbers.

****Test Suite:**** Inventory Management Feature Suite

****Test Priority:**** High

****Preconditions:****

* An existing inventory item with a designated batch or lot number.

* Admin user with access to inventory management functions.

* Sufficient quantities of the item in stock.

****Test Data:****

- * Quantity of the existing inventory item for tracking.
- * New location for any transfer scenarios.

****Test Steps:****

1. Navigate to the "Inventory" module.
2. Select the inventory item with an existing batch/lot number.
3. Perform a simulated inventory movement action (e.g., sale, transfer, purchase).
4. Enter the batch/lot number associated with the items involved.
5. Record the movement details (quantity, date, time, destination, etc.).

****Postconditions:****

- * The inventory movement is reflected in the history of the selected batch/lot number.

****Expected Result:****

The system accurately records the movement of inventory items, associating each movement with the specific batch/lot number.

****Severity:** High**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Test Case 3

****Test Case ID:** ITC-BLT-003**

****Test Case Title:**** Verify that users can trace the history of a batch or lot through the system.

****Test Case Description:**** This test case verifies that users can successfully retrieve and view the complete history of a specific batch or lot number.

****Test Suite:**** Inventory Management Feature Suite

****Test Priority:**** High

****Preconditions:****

- * An existing inventory item with a designated batch or lot number.
- * Multiple inventory movements (purchases, sales, transfers) for that batch/lot number.
- * User with access to view inventory history.

****Test Data:****

- * Batch or lot number with a recorded history.

****Test Steps:****

1. Navigate to the "Inventory" module.
2. Go to the "Batch/Lot History" section.
3. Enter the batch or lot number in the designated field.
4. Click "Search".
5. Review the displayed history, including details of each movement.

****Postconditions:****

- * History details for the selected batch/lot number are displayed.

****Expected Result:**** The system accurately retrieves and displays the complete history of the specific batch or lot number, detailing all movements and relevant information.

****Severity:**** High

****Priority:**** High

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Test Case 4

****Test Case ID:** ITC-BLT-004**

****Test Case Title:** Verify that batch or lot tracking includes production, storage, and distribution details.**

****Test Case Description:** This test case validates that details related to production, storage (location, shelf, etc.), and distribution (shipping information) are recorded and traceable for each batch/lot movement.**

****Test Suite:** Inventory Management Feature Suite**

****Test Priority:** Medium**

****Preconditions:****

- * Production, storage, and distribution modules integrated with the Inventory Management system.
- * Access to administrative functionalities for updating production, storage, and distribution data.

****Test Data:****

- * Batch/lot number with details related to production date & location, storage history, and shipping information.

****Test Steps:****

1. Navigate to the "Inventory" module and select the batch/lot number.
2. Access the "History" tab.
3. Review the recorded details for each movement, including:
 - * Production information (date, location)
 - * Storage details (location ID, shelf, date)

* Distribution details (shipping date, destination, carrier)

****Postconditions:****

* All relevant production, storage, and distribution details are reflected in the history.

****Expected Result:****

The system accurately records and displays production, storage, and distribution details for each movement of a batch/lot number.

****Severity:** Medium**

****Priority:** Medium**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Test Case 5

****Test Case ID:** ITC-BLT-005**

****Test Case Title:** Verify system compliance with regulatory requirements (e.g., food safety regulations)**

****Test Case Description:** This test case simulates a scenario where regulatory compliance is crucial and verifies that batch/lot tracking features meet the necessary standards.**

****Test Suite:** Quality Assurance Feature Suite**

****Test Priority:** High**

****Preconditions:****

* Definition of specific regulatory requirements relevant to the product type being tracked (e.g., FIFO for perishable items).

****Test Data:****

* Test data representing inventory conforming to and violating specific regulatory requirements.

****Test Steps:****

1. Set up test data reflecting items with mandatory batch/lot tracking according to regulations (e.g., expiry dates, production batches).
2. Perform simulated inventory operations (purchases, sales, transfers) while adhering to the defined regulatory requirements.

****Postconditions:****

* Review of audit logs and reports to ensure compliance.

****Expected Result:****

The system accurately tracks batch/lot information to ensure adherence to defined regulatory requirements and generates compliant reports.

****Severity:**** High

****Priority:**** High

****Type of Testing:**** Compliance Testing, Functional Testing

****Test Case Approach:**** Positive, Negative

Data - 143

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Serial Number Tracking

Feature description -

Users can track individual inventory items by serial numbers, recording unique identifiers for each item to facilitate traceability and warranty management. This feature is essential for industries such as electronics or equipment manufacturing where product serial numbers are used for warranty claims or product recalls.

Userstory title -

As a user, I want to track individual inventory items by serial numbers so that I can ensure traceability and manage warranty claims.

Acceptance criteria -

['Users can assign unique serial numbers to inventory items.', 'The system tracks inventory movements by serial number.', 'Users can trace the history of an item by its serial number.', 'The system supports warranty

and recall management by serial number.', 'Serial number tracking includes detailed item information.']

Generated Test Cases:

Test Cases for Serial Number Tracking Feature

****Test Case ID:**** TC_SN_001

****Test Case Title:**** Verify that unique serial numbers can be assigned to inventory items.

****Test Case Description:**** This test case verifies the functionality of assigning unique serial numbers to each inventory item upon addition to the inventory system.

****Test Suite:**** Serial Number Tracking

****Test Priority:**** High

****Preconditions:****

- * A new inventory item needs to be added.
- * Access to the Inventory Management System as a user with inventory management privileges.

****Test Data:****

- * Sample product details (name, description, category, etc.)
- * Unique serial number values for each item.

****Test Steps:****

1. Navigate to the Inventory Management System.
2. Navigate to the "Add New Item" section.
3. Enter product details for the new inventory item.
4. In the provided field, enter a unique serial number for the item.
5. Save the new inventory item.
6. Verify that the entered serial number is displayed accurately in the inventory list.

****Postconditions:****

- * The new item with its assigned serial number is added to the inventory system.

****Expected Result:**** The system successfully assigns the unique serial number to the new inventory item and stores it in the database.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_SN_002

****Test Case Title:**** Verify that the system tracks inventory movements by serial number.

****Test Case Description:**** This test case verifies the system's ability to track changes in inventory levels and locations based on individual serial numbers.

****Test Suite:**** Serial Number Tracking

****Test Priority:**** High

****Preconditions:****

- * At least one inventory item with a unique serial number should be added to the system (as per previous test case).

- * System should allow for item movement (e.g., transferring between locations, stocking incoming items, selling items out).

****Test Data:****

- * Serial number of the item added in the previous test case

* Details for a new location

****Test Steps:****

1. Locate the inventory item with the assigned serial number.
2. Initiate a movement action for the item (e.g., transfer to a new location).
3. Enter details for the new location and complete the movement action.
4. Query the inventory system again and verify the updated location of the item using its serial number.
5. Repeat steps 1-4 with a different movement action, such as stocking in or selling out.

****Postconditions:****

- * The item's movement is reflected in the inventory system.

****Expected Result:****

The system accurately tracks the movement of the designated inventory item and updates its location based on the serial number across different actions.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_SN_003**

****Test Case Title:** Verify that users can trace the history of an item by its serial number.**

****Test Case Description:** This test case verifies the functionality of viewing the complete history of an item's movements and changes within the system using its serial number.**

****Test Suite:**** Serial Number Tracking

****Test Priority:**** High

****Preconditions:****

- * An inventory item with at least 2 different movements recorded (as per previous test cases).

****Test Data:****

- * Serial number of the item.

****Test Steps:****

1. Locate the inventory item using its serial number.
2. Access the "History" or "Transaction Log" section associated with the item.
3. Verify that the history displays a chronological order of all movements and changes associated with the serial number.
4. Check for details such as movement date, time, location, quantity moved, and user responsible for the action.

****Postconditions:****

- * The history of the item's movements is successfully retrieved and displayed.

****Expected Result:**** The system accurately presents a complete history of all movements and changes associated with the specific serial number, including relevant details about each action.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:** TC_SN_004**

****Test Case Title:** Verify that the system supports warranty and recall management by serial number.**

****Test Case Description:** This test case verifies the system's ability to associate warranty information and manage product recalls based on individual serial numbers.**

****Test Suite:** Serial Number Tracking**

****Test Priority:** High**

****Preconditions:****

- * An inventory item with a unique serial number should be added to the system (as per previous test cases).
- * Configuration settings for warranty durations and recall management procedures should be accessible.

****Test Data:****

- * Warranty information for the item (e.g., start date, end date, coverage).
- * Simulated recall details (e.g., reason, affected serial number range).

****Test Steps:****

1. Access the inventory item's details using its serial number.
2. Record or update warranty information associated with the item.
3. Simulate a product recall by entering the recall details and specifying the serial number range affected.
4. Verify that the system correctly identifies and flags the affected item as part of the recall.
5. Attempt to sell or transfer the recalled item and ensure that the system prevents such actions, prompting for appropriate handling instructions.

****Postconditions:****

- * Warranty data is associated with the item.
- * Recall information is correctly applied to affected items.

****Expected Result:**** The system enables the recording of warranty information and effectively manages product recalls based on the specified serial number ranges, restricting actions on recalled items as needed.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Scenario-Based (Positive & Negative)

Data - 144

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Auditing

Feature description -

The system supports inventory auditing processes such as cycle counting, physical inventory counts, and reconciliation of inventory records. This feature helps users identify discrepancies between physical inventory counts and system records, investigate root causes of inventory discrepancies, and maintain inventory accuracy.

Userstory title -

As a user, I want to perform inventory audits so that I can maintain accurate inventory records and identify discrepancies.

Acceptance criteria -

['The system supports various inventory auditing methods.', 'Users can perform cycle counts and physical inventory counts.', 'The system tracks discrepancies between physical counts and system records.', 'Users can investigate and resolve inventory discrepancies.', 'Audit reports are generated for record-keeping and analysis.']

Generated Test Cases:

Test Cases for Inventory Auditing Feature

Project Name: Inventory Management System

Feature Name: Inventory Auditing

Test Case 1

Test Case ID: TC_INV_AUD_001

Test Case Title: Verify that users can perform cycle counts to track inventory levels.

* **Test Case Description:** This test case verifies the functionality of cycle counting within the Inventory Auditing feature. It will ensure users can select items for cycle counting, enter quantities, and record any discrepancies found.

* **Test Suite:** Inventory Auditing

* **Test Priority:** High

* **Preconditions:**

- * An administrator has set up a cycle counting policy within the system.

- * Inventory items exist in the system with updated stock levels.

* **Test Data:** A selection of inventory items with varying stock levels.

* **Test Steps:**

1. Login to the Inventory Management System as a user with appropriate permissions.
2. Navigate to the Inventory Auditing module.
3. Select "Cycle Count" from the available options.
4. Choose inventory items for cycle counting from the list.
5. Scan barcodes or manually enter quantities for each selected item.
6. Record any discrepancies between the system record and the physical count.

* **Postconditions:** Cycle count records are logged in the system, showing details of the items counted, quantities, and any discrepancies.

* **Expected Result:** The system should successfully allow users to perform a cycle count, record accurate data, and generate a cycle count report highlighting any discrepancies.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, User Acceptance Testing

* **Test Case Approach:** Positive

Test Case 2

* **Test Case ID:** TC_INV_AUD_002

* **Test Case Title:** Verify that users can perform physical inventory counts to reconcile stock levels.

* **Test Case Description:** This test case verifies the system's ability to handle physical inventory counts, allowing users to record the physical inventory count for all or selected items and compare it to the system records.

* **Test Suite:** Inventory Auditing

* **Test Priority:** High

* **Preconditions:**

- * A Physical Inventory Count policy has been set up in the system.

- * Inventory items exist in the system with initial stock levels.

* **Test Data:** A list of all inventory items to be counted during a physical inventory count.

* **Test Steps:**

1. Login to the Inventory Management System as a user with appropriate permissions.
2. Navigate to the Inventory Auditing module.
3. Select "Physical Inventory Count" from the available options.
4. Specify the date and time for the physical inventory count.
5. Scan barcodes or manually enter quantities for each item counted during the physical inventory count.
6. Compare the physical inventory count figures with the system records and record any discrepancies.

* **Postconditions:** A physical inventory count record is generated in the system, documenting the count date, time, items counted, quantities, and any discrepancies.

* **Expected Result:** The system should enable users to perform a physical inventory count, accurately record the data, and generate a comprehensive report highlighting any discrepancies between the physical count and the system records.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, User Acceptance Testing

* **Test Case Approach:** Positive

****Test Case 3****

*** **Test Case ID:** TC_INV_AUD_003**

*** **Test Case Title:**** Verify that the system tracks discrepancies between physical counts and system records.

*** **Test Case Description:**** This test case aims to ensure the system accurately identifies and logs discrepancies found during inventory audits.

*** **Test Suite:**** Inventory Auditing

*** **Test Priority:**** High

*** **Preconditions:****

- * Inventory items have been added to the system with initial stock levels.**

*** **Test Data:****

- * Discrepancies deliberately introduced during a physical inventory count.**

*** **Test Steps:****

- 1. Perform a physical inventory count, intentionally introducing discrepancies between the physical count and the system record.**
- 2. Record the discrepancies in the system during the physical inventory count process.**
- 3. Review the generated audit report.**

*** **Postconditions:**** Discrepancy records are displayed in the audit report.

*** **Expected Result:**** The audit report should clearly list all discrepancies between the physical inventory count and the system records, indicating the item, quantity difference, and the reason for the discrepancy (e.g., missing item, damaged item, incorrect data entry).

*** **Severity:**** Critical

*** **Priority:**** High

*** **Type of Testing:**** Functional Testing, User Acceptance Testing

*** **Test Case Approach:**** Positive, Negative

****Test Case 4****

*** **Test Case ID:** TC_INV_AUD_004**

*** **Test Case Title:** Verify that users can investigate and resolve inventory discrepancies.**

*** **Test Case Description:** This test case validates the system's functionality in allowing users to investigate and resolve discrepancies identified during inventory audits.**

*** **Test Suite:** Inventory Auditing**

*** **Test Priority:** High**

*** **Preconditions:****

*** Discrepancies have been recorded during a physical inventory count.**

*** **Test Data:** The discrepancy records from the previous test case.**

*** **Test Steps:****

1. Navigate to the Discrepancy Management section within the Inventory Auditing module.
2. Select a discrepancy record to investigate.
3. Review the details of the discrepancy, including the item, quantity difference, and any associated notes.
4. Enter information on the cause of the discrepancy and any actions taken to resolve it.

*** **Postconditions:** The discrepancy record is updated with the investigation and resolution details.**

*** **Expected Result:** The system should allow users to investigate each discrepancy, identify its root cause, update the record with resolution details, and track the status of each discrepancy.**

*** **Severity:** Critical**

*** **Priority:** High**

*** **Type of Testing:** Functional Testing, User Acceptance Testing**

*** **Test Case Approach:** Positive**

****Test Case 5****

*** **Test Case ID:** TC_INV_AUD_005**

*** **Test Case Title:** Verify that audit reports are generated for record-keeping and analysis.**

*** **Test Case Description:** This test case checks the functionality of the system in generating comprehensive audit reports based on performed cycle counts and physical inventory counts.**

*** **Test Suite:** Inventory Auditing**

*** **Test Priority:** High**

*** **Preconditions:****

*** Cycle counts and physical inventory counts have been performed.**

*** **Test Data:** Data generated from previous test cases (cycle counts and physical inventory counts).**

*** **Test Steps:****

1. Navigate to the Reporting section within the Inventory Auditing module.
2. Select the desired report type (Cycle Count Report or Physical Inventory Count Report).
3. Specify the date range and other filter criteria for the report.
4. Generate the audit report.

*** **Postconditions:** An audit report in the selected format is generated and displayed.**

*** **Expected Result:** The generated audit report should provide detailed information about the cycle counts or physical inventory counts performed, including:**

- * Date and time of the audit**
- * Inventory items counted or audited**
- * Physical quantities counted**
- * Discrepancies found (quantity difference, item details, cause)**
- * User who performed the audit**

*** **Severity:** Major**

*** **Priority:** High**

*** **Type of Testing:** Functional Testing, User Acceptance Testing**

Data - 145

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Analytics and Reporting

Feature description -

Users can generate custom reports and dashboards to analyze inventory data, track key performance indicators (KPIs), and gain insights into inventory trends and patterns. This feature provides users with actionable intelligence to make informed decisions and optimize inventory management strategies.

Userstory title -

As a user, I want to generate custom reports and dashboards so that I can analyze inventory data and make informed decisions.

Acceptance criteria -

['The system supports custom report and dashboard creation.', 'Users can select and filter data for analysis.',

'Reports and dashboards include key performance indicators (KPIs).', 'Users can view inventory trends and patterns.', 'Reports can be exported and shared with stakeholders.']

Generated Test Cases:

Inventory Management System: Inventory Analytics and Reporting Test Cases

Test Case 1:

* **Test Case ID:** IAM-001

* **Test Case Title:** Verify that users can select data fields for custom reports.

* **Test Case Description:** This test case verifies that users can choose specific inventory data fields to include in their custom reports.

* **Test Suite:** Inventory Analytics

* **Test Priority:** High

* **Preconditions:** Administrator account is logged in

* **Test Data:** List of available inventory data fields

* **Test Steps:**

1. Navigate to the Inventory Analytics section.
2. Click on "Create New Report".
3. Select "Inventory Data" report type.
4. Choose at least three different data fields from the available list.
5. Proceed to configure further report details (e.g., date range, filter criteria).

* **Postconditions:**

- * A new report containing chosen data fields is created.
- * User can preview the report with selected data fields.

* **Expected Result:** The report should display data only for the chosen fields, demonstrating successful selection and filtering.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 2:

* **Test Case ID:** IAM-002

* **Test Case Title:** Verify that users can filter data based on specific criteria for reports.

* **Test Case Description:** This test case ensures users can apply filters to focus on specific inventory data subsets within reports.

* **Test Suite:** Inventory Analytics

* **Test Priority:** High

* **Preconditions:** Administrator account is logged in, Inventory report is created

* **Test Data:** Inventory data with varying attributes (e.g., product name, supplier, location, stock levels)

* **Test Steps:**

1. Access the previously created Inventory report.
2. Apply a filter to select data based on a specific product name.
3. Apply another filter to limit data to a specific date range.
4. Verify the report accurately displays only the filtered data.

* **Postconditions:**

* Filtered data is displayed in the Inventory report.

* **Expected Result:** The report content should be dynamically updated to show only data matching the applied filters (product name and date range).

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 3:

* **Test Case ID:** IAM-003

* **Test Case Title:** Verify that reports include relevant KPIs for inventory analysis.

* **Test Case Description:** This test case checks if the system generates reports incorporating essential KPIs for assessing inventory health.

* **Test Suite:** Inventory Analytics

* **Test Priority:** Medium

* **Preconditions:** Administrator account is logged in.

* **Test Data:** Sample Inventory data with sufficient history

* **Test Steps:**

1. Create a new Inventory Trend report.
2. Analyze the report for KPIs like stock turnover, average days of supply, reorder point, and stock-out occurrences.
3. Verify the presence and calculation accuracy of these KPIs within the report.

* **Postconditions:** Report with calculated KPIs is generated.

* **Expected Result:** The report should include at least three relevant KPIs for inventory analysis, accurately calculated based on available data.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 4:

* **Test Case ID:** IAM-004

* **Test Case Title:** Verify user can export reports in common formats.

* **Test Case Description:** This test case ensures that generated reports can be exported in commonly used formats for sharing and further analysis.

* **Test Suite:** Inventory Analytics

* **Test Priority:** Low

* **Preconditions:** Report containing inventory data is generated

* **Test Data:** Sample report data

* **Test Steps:**

1. Access the generated report.
2. Utilize the export functionality to download the report in formats like PDF, CSV, or Excel.
3. Open the exported file and verify the data integrity and format are preserved.

* **Postconditions:** Exported report file is successfully downloaded.

* **Expected Result:** The report data should be accurately exported in the chosen format without any data loss or corruption.

* **Severity:** Minor

* **Priority:** Low

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 5:

* **Test Case ID:** IAM-005

* **Test Case Title:** Verify if user can identify potential stockouts through trend analysis.

* **Test Case Description:** This test case focuses on the system's ability to highlight potential stockouts by analyzing inventory trends.

* **Test Suite:** Inventory Analytics

* **Test Priority:** High

* **Preconditions:** Historical inventory data is present in the system

* **Test Data:** Inventory data with gradual declining stock levels approaching reorder points.

* **Test Steps:**

1. Create a report displaying inventory trends for specific product(s).
2. Analyse the report for declining stock levels over time.
3. Verify that the report clearly indicates approaching stockouts for the selected product(s) based on pre-defined reorder points.

* **Postconditions:** Visual or textual alerts indicating potential stockouts are displayed.

* **Expected Result:** The report should effectively identify potential stockouts by highlighting products with declining inventory levels nearing their reorder points.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Forecasting

Feature description -

Users can generate inventory forecasts and demand projections based on historical sales data, seasonal trends, and market analysis. This feature helps users anticipate future inventory requirements, optimize inventory levels, and plan inventory investments more effectively to meet customer demand.

Userstory title -

As a user, I want to forecast inventory requirements so that I can plan for future demand and optimize inventory levels.

Acceptance criteria -

['Users can access historical sales data and trends.', 'The system provides tools for forecasting inventory demand.', 'Forecasts include seasonal and market trend adjustments.', 'Users can generate reports on forecasted inventory needs.', 'The system supports data export for further analysis.']

Generated Test Cases:

Test Cases for Inventory Forecasting Feature

Here are 5 detailed test cases for the "Inventory Forecasting" feature of the Inventory Management System:

****Test Case ID:** TC_INV_001**

****Test Case Title:** Verify that historical sales data is accessible for forecasting.**

****Test Case Description:****

This test case verifies the user's ability to access historical sales data within the system to inform inventory forecasting. It will check if the system displays relevant sales information over a specified timeframe and allows users to filter and sort data.

****Test Suite:** Inventory Management**

****Test Priority:** High**

****Preconditions:****

- * A test user with sufficient permissions to access inventory data is logged into the system.
- * At least 30 days worth of historical sales data is available in the system.

****Test Data:** No test data needed**

****Test Steps:****

1. Navigate to the "Inventory Forecasting" module.
2. Select a date range for historical sales data (e.g., last 3 months).
3. Verify that the system displays a table with sales data for the selected period, including fields like product ID, quantity sold, sale date, and total revenue.
4. Attempt to sort the data by different columns (e.g., date, product, quantity).
5. Verify that the data is correctly sorted in ascending or descending order.

****Postconditions:****

* Data visualization options are available.

****Expected Result:**** The system successfully displays relevant historical sales data within the specified timeframe and allows sorting by various columns.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing

****Test Case ID:**** TC_INV_002

****Test Case Title:**** Verify that the system provides tools for forecasting inventory demand.

****Test Case Description:****

This test case evaluates the functionality of the tools provided for forecasting inventory demand. It will test the system's ability to generate forecasts based on different input parameters such as historical sales trends, seasonality, and market analysis.

****Test Suite:**** Inventory Management

****Test Priority:**** High

****Preconditions:****

- * A test user with sufficient permissions to access inventory forecasting tools is logged into the system.
- * Historical sales data is available for at least 6 months.

****Test Data:****

- * Product with defined sales history
- * Seasonality data for the product (e.g., higher sales in summer months)

****Test Steps:****

1. Navigate to the "Inventory Forecasting" module.
2. Select the desired product for forecasting.
3. Choose a forecasting horizon (e.g., 3 months).
4. Adjust input parameters like seasonality and market trends.
5. Generate the inventory demand forecast report.

****Postconditions:****

- * No conflicts with existing inventory records.

****Expected Result:****

The system accurately generates a forecast report visualizing the projected inventory demand for the selected product and timeframe, taking into account historical data, seasonality, and market trends.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing, System Testing**

****Test Case ID:** TC_INV_003**

****Test Case Title:** Verify that inventory forecasts include seasonal and market trend adjustments.**

****Test Case Description:****

This test case verifies the implementation of seasonal and market trend adjustments in the forecasting engine. It will examine if the system correctly incorporates these factors to provide accurate demand predictions.

****Test Suite:** Inventory Management**

****Test Priority:** High**

****Preconditions:****

- * A test user with sufficient permissions to access inventory forecasting tools is logged into the system.
- * Historical sales data reflecting seasonal patterns is available for at least 1 year.
- * Data reflecting market trends (e.g., increase or decrease in overall demand) is available.

****Test Data:****

- * Product demonstrating clear seasonal trends (e.g., summer swimwear)
- * Market trend data indicating a general increase or decrease in demand for specific product categories

****Test Steps:****

1. Navigate to the "Inventory Forecasting" module.
2. Select the product with visible seasonal trends.
3. Generate an inventory demand forecast report for a period encompassing both peak and off-season months.
4. Compare the forecasted demand against historical sales data during similar periods.
5. Repeat steps 1-4 for a product affected by a changing market trend (e.g., facing increased competition).

****Postconditions:****

- * Reports are generated with adjustments for seasonality and market trends.

****Expected Result:**** The system accurately reflects seasonal variations and adjusts forecasts based on market trend data. Forecasts for peak season will be higher, and forecasts for off-season will be lower than average demand.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing

****Test Case ID:**** TC_INV_004

****Test Case Title:**** Verify that users can generate reports on forecasted inventory needs.

****Test Case Description:****

This test case focuses on the reporting functionality of the Inventory Forecasting feature. It verifies that users can generate comprehensive reports summarizing forecasted inventory needs, covering different timeframes, products, and aggregate data.

****Test Suite:** Inventory Management**

****Test Priority:** High**

****Preconditions:****

- * A test user with sufficient permissions to access inventory forecasting tools is logged into the system.

****Test Data:****

- * Minimum of 3 different products with varying forecast levels

****Test Steps:****

1. Navigate to the "Inventory Forecasting" module.
2. Select the desired reporting timeframe (e.g., next quarter, next year).
3. Choose to generate a report for all products or select specific products for analysis.
4. Explore available report options (e.g., by product category, by location).
5. Verify that the report accurately displays forecasted inventory needs, including minimum stock level projections, and potential stockouts/overstocking situations.

****Postconditions:****

- * Data exported in desired format.

****Expected Result:**** The system generates a clear, concise, and informative report showcasing forecasted inventory needs for different products and timeframes. The report should identify potential stock-related issues and provide insights for decision-making.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing

****Test Case ID:**** TC_INV_005

****Test Case Title:**** Verify that the system supports data export for further analysis.

****Test Case Description:****

This test case evaluates the system's ability to export data generated through the inventory forecasting tools for external analysis or integration with other systems.

****Test Suite:**** Inventory Management

****Test Priority:** Medium**

****Preconditions:****

* A test user with sufficient permissions to access inventory forecasting tools is logged into the system.

****Test Data:****

* Forecasted inventory data for a specific product or group of products

****Test Steps:****

1. Navigate to the "Inventory Forecasting" module.
2. Generate a forecast report for the desired timeframe and product(s).
3. Locate the export functionality (e.g., button, menu option).
4. Select a suitable data format for export (e.g., CSV, Excel, JSON).
5. Download the exported data file.
6. Open and verify the downloaded file to ensure that all relevant data points are present and accurately represented.

****Postconditions:****

* Data exported with proper formatting.

****Expected Result:**** The system successfully exports the generated forecast data in the chosen format, enabling users to import and analyze the information in external tools or systems.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:**** Functional Testing, System Testing

Data - 147

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Batch and Lot Tracking

Feature description -

The system tracks inventory items by batch or lot numbers, enabling traceability and accountability throughout the supply chain. This feature is particularly useful for industries such as food and pharmaceuticals where product safety and compliance with regulatory requirements are critical.

Userstory title -

As a user, I want to track inventory by batch or lot numbers so that I can ensure traceability and compliance with regulatory requirements.

Acceptance criteria -

['Users can assign batch or lot numbers to inventory items.', 'The system tracks inventory movements by batch or lot number.', 'Users can trace the history of a batch or lot through the system.', 'Batch or lot tracking includes production, storage, and distribution details.', 'The system supports compliance with regulatory requirements.']

Generated Test Cases:

Here are five test cases designed to validate the "Batch and Lot Tracking" feature of the Inventory Management System, ensuring comprehensive coverage of the provided acceptance criteria.

****Test Case ID:**** TM_BLT_01

****Test Case Title:**** Verify that users can assign batch or lot numbers to inventory items.

****Test Case Description:**** This test case will confirm the functionality to assign unique batch or lot numbers to individual inventory items when they are added or updated in the system.

****Test Suite:**** Inventory Tracking

****Test Priority:**** High

****Preconditions:****

- * A valid user account with appropriate permissions is logged in.

- * The system database is initialized with a sample product.

****Test Data:****

- * Sample product details (e.g., name, description, etc.).

- * Unique batch/lot numbers (e.g., "BLT001", "LOT123456").

****Test Steps:****

1. Navigate to the "Add New Product" or "Edit Product" screen.
2. Enter the necessary product details.
3. Enter a unique batch or lot number in the designated field.

4. Save the product information.
5. Verify that the entered batch number is displayed in the product details.

****Postconditions:****

- * The updated product information, including the assigned batch number, remains consistent.

****Expected Result:**** The system successfully assigns the entered batch or lot number to the inventory item, enabling traceability.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TM_BLT_02

****Test Case Title:**** Verify that the system tracks inventory movements by batch or lot number.

****Test Case Description:**** This test verifies the system's ability to accurately track the movement of inventory items, including the batch or lot number, for transactions like receiving, issuing, and transfers.

****Test Suite:**** Inventory Tracking

****Test Priority:**** High

****Preconditions:****

- * A product with a previously assigned batch number exists in the inventory.
- * A valid user account with appropriate permissions is logged in.

****Test Data:****

- * Existing product with a batch number (e.g., "BLT001").
- * Sample quantity of inventory movement. (e.g., 10 units).

****Test Steps:****

1. Perform an inventory transaction (e.g., receive, issue, transfer) for the product with the assigned batch

number.

2. Enter the batch number in the corresponding transaction field.
3. Initiate the transaction.
4. Review the transaction history for the product.
5. Validate that the transaction details, including the batch number and quantity moved, are accurately

recorded.

****Postconditions:**** The updated inventory balance and transaction history reflect the batch/lot movement transactions.

****Expected Result:**** The system accurately logs all inventory movements associated with the specific batch or lot number.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TM_BLT_03

****Test Case Title:**** Verify that users can trace the history of a batch or lot through the system.

****Test Case Description:**** This test ensures that users can view the complete history of a particular batch or lot, including all transactions, movements, and locations.

****Test Suite:**** Inventory Tracking

****Test Priority:**** High

****Preconditions:****

* A product with a previously assigned batch number exists in the inventory.

* A valid user account with appropriate permissions is logged in.

****Test Data:****

* Existing product with a specific batch number (e.g., "BLT001").

****Test Steps:****

1. Navigate to the product details page for the product with the specific batch number.
2. Access the "Batch History" or "Lot History" section (or equivalent).
3. Review the history of transactions involving this batch, including:
 - * Receiving
 - * Issuing
 - * Transfers
 - * Stock adjustments
4. Verify that the information in the history is accurate and complete.

****Postconditions:****

* No unintended data modification occurs.

****Expected Result:**** The system displays a clear and comprehensive history of all transactions associated with the specified batch or lot number.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TM_BLT_04

****Test Case Title:**** Verify that batch or lot tracking includes production, storage, and distribution details.

****Test Case Description:**** This test confirms that the system records relevant details pertaining to the production, storage, and distribution of individual batches or lots.

****Test Suite:**** Inventory Tracking

****Test Priority:**** Medium

****Preconditions:****

- * A product with batch number information exists in the system.
- * A valid user account with appropriate permissions is logged in.

****Test Data:****

- * Product information with assigned batch number.
- * Sample production date, packaging information, storage location data, and distribution records.

****Test Steps:****

1. Access the product details for the product with a batch number.
2. Locate the "Batch Details" or "Lot Details" section.
3. Verify that the following information is recorded:
 - * Production date
 - * Batch size
 - * Packaging details
 - * Storage history (locations, dates)
 - * Distribution records (orders, shipments)

****Postconditions:****

- * No data corruption occurs.

****Expected Result:**** The system accurately tracks and displays production, storage, and distribution details associated with each corresponding batch or lot.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:** TM_BLT_05**

****Test Case Title:** Verify that the system supports compliance with regulatory requirements.**

****Test Case Description:** This test aims to ensure that the batch and lot tracking functionality adheres to industry-specific regulatory requirements, such as those related to expiration dates, quality control, or traceability for pharmaceutical or food products.**

****Test Suite:** Compliance Testing**

****Test Priority:** High**

****Preconditions:****

- * A valid user account with appropriate permissions is logged in.
- * A product specific regulatory requirements are known (e.g., expiration dates).

****Test Data:****

- * Product with a batch or lot number and the relevant expiry date.

****Test Steps:****

1. Enter the product details, including the expiry date.
2. Assign a batch or lot number to the product.
3. Perform a transaction involving the product, such as issuing or transferring.
4. Review the product history to ensure that the expiry date is recorded and properly considered in inventory management logic (e.g., alerts, stock rotation).
5. Validate if the system complies with any specific reporting requirements related to batch or lot numbers and expiry dates.

****Postconditions:****

- * No conflicts with regulatory requirements due to the tracking data.

****Expected Result:** The system accurately records and manages product batches and lots, taking into**

account regulatory requirements (e.g., expiry dates) and ensuring compliance throughout the inventory management lifecycle.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Compliance Testing

****Test Case Approach:**** Negative & Positive

Data - 148

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Serial Number Tracking

Feature description -

Users can track individual inventory items by serial numbers, recording unique identifiers for each item to facilitate traceability and warranty management. This feature is essential for industries such as electronics or equipment manufacturing where product serial numbers are used for warranty claims or product recalls.

Userstory title -

As a user, I want to track individual inventory items by serial numbers so that I can ensure traceability and manage warranty claims.

Acceptance criteria -

['Users can assign unique serial numbers to inventory items.', 'The system tracks inventory movements by serial number.', 'Users can trace the history of an item by its serial number.', 'The system supports warranty and recall management by serial number.', 'Serial number tracking includes detailed item information.']

Generated Test Cases:

Test Cases for Inventory Management System - Serial Number Tracking Feature

****Test Case ID:**** IMS-SN-001

****Test Case Title:**** Verify that users can assign unique serial numbers to inventory items.

****Test Case Description:**** This test case verifies the ability of users to input and associate unique serial numbers with new inventory items during the creation process.

****Test Suite:**** Inventory Management

****Test Priority:**** High

****Preconditions:****

* A new inventory item with no serial number is added to the system.

****Test Data:****

* Valid unique serial numbers for testing (e.g., SN123456, SN789012)

****Test Steps:****

1. Access the Inventory Management System and navigate to the "Add New Item" section.
2. Enter all required item details (name, description, category, etc.).
3. In the designated field, input a valid unique serial number for the item.
4. Review the entered information, ensuring the serial number is displayed correctly.
5. Save the new inventory item.

****Postconditions:****

- * The new inventory item is added to the system.
- * The item displays the assigned serial number in its information panel.

****Expected Result:****

The system successfully assigns and displays the unique serial number to the newly created inventory item.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing

****Test Case Approach:**** Positive

****Test Case ID:**** IMS-SN-002

****Test Case Title:**** Verify that the system tracks inventory movements by serial number.

****Test Case Description:**** This test case verifies that the system accurately records changes in inventory levels and location for items tracked by their serial numbers.

****Test Suite:**** Inventory Management

****Test Priority:**** High

****Preconditions:****

- * A new inventory item with a unique serial number has been added to the system and is in stock.

****Test Data:****

- * A new purchase order with multiple items of the same type, each having distinct serial numbers.
- * Several movement operations (transfers, sales, returns) involving specific serial numbers.

****Test Steps:****

1. Generate a purchase order for multiple items of the same type, each with a unique serial number assigned.
2. Receive the purchase order and update the system inventory accordingly.
3. Execute several transactions involving the designated serial numbers, such as transfers between warehouses, sales to customers, and returns from customers.
4. After completing all transactions, query the system for the history of each serial number involved.
5. Verify the accuracy of the tracked history, including the initial stock status, movement details, and current inventory location.

****Postconditions:****

- * The inventory history for all involved serial numbers is updated in the system.

****Expected Result:**** The system accurately logs and reflects all movements of inventory items identified by their unique serial numbers in the history records.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Integration Testing, System Testing

****Test Case Approach:**** Positive, Negative (e.g., simulate invalid serial numbers, attempt to delete essential movements)

Let me know if you need help with additional test cases. I can tailor them to specific scenarios and edge cases!

Data - 149

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Auditing

Feature description -

The system supports inventory auditing processes such as cycle counting, physical inventory counts, and reconciliation of inventory records. This feature helps users identify discrepancies between physical inventory

counts and system records, investigate root causes of inventory discrepancies, and maintain inventory accuracy.

Userstory title -

As a user, I want to perform inventory audits so that I can maintain accurate inventory records and identify discrepancies.

Acceptance criteria -

['The system supports various inventory auditing methods.', 'Users can perform cycle counts and physical inventory counts.', 'The system tracks discrepancies between physical counts and system records.', 'Users can investigate and resolve inventory discrepancies.', 'Audit reports are generated for record-keeping and analysis.']

Generated Test Cases:

Test Cases for Inventory Auditing Feature

****Project Name:** Inventory Management System**

****Feature Name:** Inventory Auditing**

Test Case 1

****Test Case ID:** TC_INV_AUD_001**

****Test Case Title:** Verify that the system supports cycle counting as an inventory auditing method.**

****Test Case Description:** This test case verifies the functionality of cycle counting within the inventory auditing feature. It ensures users can select items for cycle counting, enter counts, and reconcile discrepancies with system records.**

****Test Suite:** Inventory Auditing**

****Test Priority:** High**

****Preconditions:****

* An inventory item with available stock exists.

* The user is logged in with sufficient permissions to perform inventory audits.

****Test Data:****

* Inventory item with a known quantity.

****Test Steps:****

1. Navigate to the Inventory Auditing module.

2. Select "Cycle Counting" as the audit type.

3. Select the inventory item for cycle counting.

4. Enter the physical count for the selected item.

5. Review and submit the cycle count.

6. Verify that the system records the physical count and generates a report.

****Postconditions:****

* The cycle count record is added to the audit history.

* System inventory records are updated to reflect the cycle count if a discrepancy exists.

****Expected Result:**** The system successfully records the cycle count and updates the inventory levels accordingly.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 2

****Test Case ID:** TC_INV_AUD_002**

****Test Case Title:** Verify that the system supports physical inventory counts as an inventory auditing method.**

****Test Case Description:** This test case verifies the functionality of performing physical inventory counts in the Inventory Auditing feature. It ensures users can conduct a complete count of inventory items, record discrepancies, and generate a comprehensive audit report.**

****Test Suite:** Inventory Auditing**

****Test Priority:** High**

****Preconditions:****

- * A range of inventory items is available for counting.
- * The user is logged in with sufficient permissions to perform inventory audits.

****Test Data:****

- * List of items with known quantities for a specific location or category.

****Test Steps:****

1. Navigate to the Inventory Auditing module.
2. Select "Physical Inventory Count" as the audit type.
3. Choose the location or category of inventory to count.
4. Scan or manually enter the inventory items and their physical counts.
5. Record any discrepancies between physical counts and system records.
6. Submit the physical inventory count.

****Postconditions:****

- * A detailed audit report is generated summarizing the physical inventory count, discrepancies, and other relevant information.

****Expected Result:**** The system accurately records the physical inventory count, identifies discrepancies, and generates a comprehensive audit report.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 3

****Test Case ID:**** TC_INV_AUD_003

****Test Case Title:**** Verify that the system tracks discrepancies between physical counts and system records.

****Test Case Description:**** This test case verifies the system's ability to accurately identify and track discrepancies between physical inventory counts and system records.

****Test Suite:**** Inventory Auditing

****Test Priority:**** High

****Preconditions:****

- * An inventory item exists with a known quantity.
- * The user is logged in with sufficient permissions to perform inventory audits.

****Test Data:****

- * Inventory item with deliberately inaccurate stock quantity recorded in the system.

****Test Steps:****

1. Perform a physical inventory count for the selected item.
2. Enter the physical count into the system, deliberately introducing a discrepancy.

3. Review the audit report.

****Postconditions:****

* The discrepancy between the physical count and the system record should be clearly displayed in the audit report.

****Expected Result:**** The system correctly identifies and records the discrepancy between the physical count and the system record in the audit report.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 4

****Test Case ID:**** TC_INV_AUD_004

****Test Case Title:**** Verify that users can investigate and resolve inventory discrepancies.

****Test Case Description:**** This test case verifies the system's functionality for investigating and resolving identified inventory discrepancies found during audits.

****Test Suite:**** Inventory Auditing

****Test Priority:**** High

****Preconditions:****

* A discrepancy exists between a physical inventory count and the system record (Created in a previous test case).

* The user is logged in with sufficient permissions to investigate and resolve discrepancies.

****Test Data:****

****Test Steps:****

1. Access the audit report that displays the discrepancy.
2. Select the discrepancy for investigation.
3. Review available details about the discrepancy (item, quantity, time of count, etc.).
4. Choose a resolution option (adjust stock quantity, mark as obsolete, add notes, etc.).
5. Submit the resolution for approval (if required by workflows).

****Postconditions:****

* The chosen resolution is applied to the inventory record.

* The audit report reflects the updated status of the discrepancy.

****Expected Result:**** The system allows users to investigate discrepancies thoroughly and apply appropriate resolutions, ensuring data accuracy.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 5

****Test Case ID:** TC_INV_AUD_005**

****Test Case Title:** Verify that audit reports are generated for record-keeping and analysis.**

****Test Case Description:** This test case verifies the generation of comprehensive audit reports that capture all relevant information from inventory audits. Reports should be clear, organized, and allow for analysis.**

****Test Suite:** Inventory Auditing**

****Test Priority:** Medium**

****Preconditions:****

* Successful completion of a physical inventory count (as in TC_INV_AUD_002).

* The user is logged in with permission to view audit reports.

****Test Data:****

****Test Steps:****

1. Navigate to the Inventory Auditing module.
2. Access the Reports section.
3. Select the desired type of audit report (e.g., cycle count, physical count).
4. Filter the report by date range, location, or other criteria (if applicable).
5. Review the generated audit report.

****Postconditions:****

* The audit report is generated in a readable format (PDF, CSV, etc.).

****Expected Result:** The system generates a comprehensive audit report that includes details about:**

- * Audit type and date
- * Location/Category audited
- * Inventory items counted
- * Actual counts
- * Discrepancies found
- * Resolution actions taken
- * Total discrepancies

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Regression Testing

****Test Case Approach:**** Positive :

Data - 150

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock

alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Analytics and Reporting

Feature description -

Users can generate custom reports and dashboards to analyze inventory data, track key performance indicators (KPIs), and gain insights into inventory trends and patterns. This feature provides users with actionable intelligence to make informed decisions and optimize inventory management strategies.

Userstory title -

As a user, I want to generate custom reports and dashboards so that I can analyze inventory data and make informed decisions.

Acceptance criteria -

['The system supports custom report and dashboard creation.', 'Users can select and filter data for analysis.', 'Reports and dashboards include key performance indicators (KPIs).', 'Users can view inventory trends and patterns.', 'Reports can be exported and shared with stakeholders.']

Generated Test Cases:

Inventory Management System Test Cases: Inventory Analytics and Reporting

****User Story:**** As a user, I want to generate custom reports and dashboards so that I can analyze inventory data and make informed decisions.

****Test Case 1:****

*** **Test Case ID:**** ITMS-ANA-001

*** **Test Case Title:**** Verify that users can create custom reports and select data fields.

* **Test Case Description:** This test case verifies the user's ability to create a new custom report and select specific data fields from various inventory categories for inclusion in the report.

* **Test Suite:** Inventory Analytics

* **Test Priority:** High

* **Preconditions:**

- * User is logged in with administrator privileges.

- * Inventory data is populated in the system.

* **Test Data:**

- * Sample data for different inventory categories (products, suppliers, transactions).

* **Test Steps:**

1. Navigate to the Reports section within the Inventory Management System.
2. Click on the "Create New Report" button.
3. Choose a name for the report (e.g., "Product Sales Summary").
4. Select data fields from various inventory categories (e.g., product name, quantity, supplier, purchase date)
5. Click "Save Report".

* **Expected Result:** A new custom report is created with the selected data fields and saved.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

Test Case 2:

* **Test Case ID:** ITMS-ANA-002

* **Test Case Title:** Verify that users can filter data for analysis in custom reports.

* **Test Case Description:** This test case verifies the user's ability to filter data within a custom report based on specific criteria (e.g., date range, supplier, product category).

* **Test Suite:** Inventory Analytics

* **Test Priority:** High

* **Preconditions:**

* A custom report is created and saved following Test Case ITMS-ANA-001.

* **Test Data:**

* Sample data with varying dates, suppliers, and product categories.

* **Test Steps:**

1. Open the custom report created in Test Case 1.

2. Apply filters to restrict the data displayed in the report (e.g., filter by date range, select specific suppliers, choose a product category).

3. Verify that the report data reflects the applied filters.

* **Expected Result:** The report data is accurately filtered based on the selected criteria.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

Test Case 3:

* **Test Case ID:** ITMS-ANA-003

* **Test Case Title:** Verify that reports include key performance indicators (KPIs).

* **Test Case Description:** This test case verifies the inclusion of predefined KPIs in the generated reports, such as inventory turnover rate, stockout rate, and order fulfillment time.

* **Test Suite:** Inventory Analytics

* **Test Priority:** High

* **Preconditions:**

* A custom report is created and saved.

* **Test Data:**

* Sample data that allows for the calculation of KPIs.

****Test Steps:****

1. Open the custom report created.
2. Identify predefined KPIs displayed in the report (e.g., inventory turnover rate, stockout rate, order fulfillment time).
3. Verify that the calculated values for each KPI are accurate and displayed correctly.

****Expected Result:**** The report displays accurate values for predefined KPIs based on the available inventory data.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case 4:****

****Test Case ID:**** ITMS-ANA-004

****Test Case Title:**** Verify that users can view inventory trends and patterns in reports.

****Test Case Description:**** This test case verifies the ability to visualize inventory trends and patterns through graphical representations (e.g., line charts, bar graphs) within the reports.

****Test Suite:**** Inventory Analytics

****Test Priority:**** High

****Preconditions:****

- * A custom report is created and saved.
- * Historical inventory data is available in the system.

****Test Data:****

- * Sample historical inventory data demonstrating trends and patterns.

****Test Steps:****

1. Open the custom report created.
2. Identify graphical representations (e.g., line charts, bar graphs) displaying inventory trends over time or

across different categories.

3. Verify that the graphical representations accurately reflect historical inventory data and show discernible trends and patterns.

* **Expected Result:** The reports provide clear and accurate visualizations of inventory trends and patterns.

* **Severity:** High

* **Priority:** Medium

* **Type of Testing:** Functional Testing

Test Case 5:

* **Test Case ID:** ITMS-ANA-005

* **Test Case Title:** Verify that reports can be exported and shared with stakeholders.

* **Test Case Description:** This test case verifies the functionality to export reports in various formats (e.g., PDF, Excel) and share them with stakeholders.

* **Test Suite:** Inventory Analytics

* **Test Priority:** Medium

* **Preconditions:**

* A custom report is created and saved.

* **Test Data:**

* Sample report data.

* **Test Steps:**

1. Open the custom report created.
 2. Find the export option and select a format (e.g., PDF, Excel).
 3. Download the exported report file.
 4. Verify that the exported file contains all data and formatting elements from the report.
 5. Implement a method to share the exported file with a designated stakeholder (email, internal platform, etc.)
- * **Expected Result:** The report can be successfully exported in the chosen format and shared with

stakeholders.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

Data - 151

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Tracking

Feature description -

The system tracks inventory levels in real-time, monitoring stock quantities, locations, and movements of items within the inventory. This feature enables businesses to maintain accurate inventory records, prevent stockouts, and optimize inventory replenishment processes.

Userstory title -

As a user, I want to track inventory levels in real-time so that I can monitor stock quantities and locations accurately.

Acceptance criteria -

['The system displays real-time inventory levels.', 'Users can view inventory quantities and locations.', 'Inventory movements are tracked and updated in real-time.', 'The system provides notifications for stock level changes.', 'Users can generate reports on inventory levels.']

Generated Test Cases:

Test Cases for Inventory Tracking Feature

Here are 5 detailed test cases for the "Inventory Tracking" feature of the Inventory Management System, based on the provided user story and acceptance criteria:

****Test Case ID:** IT-001**

****Test Case Title:** Verify that the system displays real-time inventory levels**

****Test Case Description:** This test case verifies that the system accurately displays the current inventory levels for all tracked items in real-time.**

****Test Suite:** Inventory Management**

****Test Priority:** High**

****Preconditions:****

* System should be running and connected to the database.

* An initial set of inventory items with varying quantities should be populated in the system.

****Test Data:**** Various inventory items with known quantities.

****Test Steps:****

1. Log in to the Inventory Management System as a user with appropriate permissions.
2. Navigate to the inventory management dashboard or relevant inventory tracking screen.
3. Verify that the displayed inventory levels for each item are accurate and up-to-date reflecting the latest stock movements.
4. Simulate a stock update event (e.g., adding or removing items).
5. Observe the immediate change in inventory levels on the dashboard/screen, confirming real-time updates.

****Postconditions:****

* System should remain operational.

****Expected Result:**** The system will accurately display real-time inventory levels for all tracked items. Any stock updates will be reflected immediately in the displayed quantities.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing

****Test Case Approach:**** Positive

****Test Case ID:** IT-002**

****Test Case Title:** Verify that users can view inventory quantities and locations**

****Test Case Description:** This test case ensures users can retrieve and view specific inventory quantities and their corresponding locations within the system.**

****Test Suite:** Inventory Management**

****Test Priority:** High**

****Preconditions:****

- * System should be running and connected to the database.
- * Inventory items with predefined locations should be added to the system.

****Test Data:** Inventory items with specific assigned locations.**

****Test Steps:****

1. Log in to the Inventory Management System as a user with appropriate permissions.
2. Navigate to the inventory tracking screen.
3. Use search filters to locate a specific inventory item.
4. Verify that the displayed item details include the current quantity and the assigned location.
5. Change the location of the item within the system.

6. Confirm that the updated location is reflected in the inventory details.

****Postconditions:****

* System should remain operational.

****Expected Result:**** The system will accurately display the inventory quantity and location for each item.

Location changes will be reflected in the system immediately.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing

****Test Case Approach:**** Positive, Search Functionality

****Test Case ID:**** IT-003

****Test Case Title:**** Verify that inventory movements are tracked and updated in real-time

****Test Case Description:**** This test case ensures that all stock movements (e.g., purchases, sales, transfers) are accurately tracked and reflected in real-time within the system.

****Test Suite:**** Inventory Management

****Test Priority:** High**

****Preconditions:****

- * System should be running and connected to the database.
- * A sufficient quantity of inventory items should be available in the system.

****Test Data:**** Simulated stock movements (e.g., purchase orders, sales transactions, transfers).

****Test Steps:****

1. Log in as a user with permissions to perform inventory transactions.
2. Initiate a stock movement (e.g., add items through a purchase order, sell items to a customer, transfer items between locations).
3. Observe the system for any real-time updates to the affected inventory quantities and locations.
4. Verify that the stock movement details are recorded in the system's transaction history.
5. Repeat steps 2-4 with different types of stock movements.

****Postconditions:****

- * System should remain operational.

****Expected Result:**** All stock movements will be tracked and updated in real-time, with corresponding changes in inventory quantities and locations reflected accurately.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing, System Testing**

****Test Case Approach:** Positive, Functional Coverage**

****Test Case ID:** IT-004**

****Test Case Title:** Verify that the system provides notifications for stock level changes**

****Test Case Description:** This test case ensures that the system effectively notifies users about important stock level changes, such as low stock, stockouts, or exceeding reorder points.**

****Test Suite:** Inventory Management**

****Test Priority:** Medium**

****Preconditions:****

- * System should be running and configured to send notifications.
- * Inventory items with defined reorder points should be added to the system.

****Test Data:** Inventory items with different quantities, reorder points, and notification thresholds.**

****Test Steps:****

1. Log into the Inventory Management System as a user configured to receive notifications.

2. Adjust the quantity of an item below its reorder point.
3. Verify that the system sends a notification alerting about the low stock level.
4. Achieve a stockout situation for a different item.
5. Confirm that a notification is received promptly, indicating the stockout.
6. Increase the quantity of an item above its reorder point.
7. Ensure that no new notifications are triggered for exceeding the reorder point.

****Postconditions:****

*** System should remain operational.**

****Expected Result:**** The system will generate notifications for significant stock level changes, providing timely alerts about low stock, stockouts, and exceeding reorder points.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional Testing, System Testing, Acceptance Testing**

****Test Case Approach:** Positive, Negative**

****Test Case ID:** IT-005**

****Test Case Title:** Verify that users can generate reports on inventory levels**

****Test Case Description:**** This test case checks the functionality of generating reports on inventory levels, including viewing detailed information about stock quantities, locations, and movement history.

****Test Suite:**** Inventory Management

****Test Priority:**** Medium

****Preconditions:****

- * System should be running and connected to the database.
- * A sufficient amount of inventory data should be present in the system.

****Test Data:**** Various inventory items with different quantities, locations, and movement history.

****Test Steps:****

1. Log in to the Inventory Management System as a user with appropriate permissions.
2. Navigate to the reporting section or module dedicated to inventory reports.
3. Select a desired report type (e.g., overall inventory summary, inventory by location, inventory turnover)
4. Specify any required filters or date ranges for the report.
5. Generate the report and verify that the displayed information accurately reflects the selected criteria.
6. Analyze the generated report for:
 - Correct inventory quantities for each item.
 - Accurate summarized stock levels across locations (if applicable).
 - Clear and consistent presentation of inventory movement history.

****Postconditions:****

* System should remain operational.

****Expected Result:**** The system will generate comprehensive and accurate inventory reports based on user-defined criteria, providing valuable insights into stock levels, locations, and movements.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Regression Testing, Acceptance Testing

****Test Case Approach:**** Positive, Functional Coverage

Data - 152

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and

supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Barcode Scanning

Feature description -

Users can scan barcode labels attached to inventory items using handheld barcode scanners or mobile devices equipped with barcode scanning capabilities. This feature facilitates fast and accurate data entry, simplifies inventory management tasks such as receiving, picking, and counting, and reduces manual errors.

Userstory title -

As a user, I want to scan barcodes for inventory items so that I can quickly and accurately update inventory records.

Acceptance criteria -

['The system supports barcode scanning functionality.', 'Users can scan barcodes with handheld scanners or mobile devices.', 'Scanned barcodes update inventory records in real-time.', 'The system provides error messages for invalid barcodes.', 'Users can review and confirm scanned data before finalizing updates.']

Generated Test Cases:

Test Cases for Barcode Scanning Feature

****Project Context:**** Inventory Management System

****User Story:**** As a user, I want to scan barcodes for inventory items so that I can quickly and accurately update inventory records.

****Test Case 1:**** Verify that the system successfully scans valid barcodes from handheld scanners

****Test Case Description:**** This test case verifies the ability to scan barcodes using a handheld scanner and ensure the system accurately updates inventory records in real-time.

****Test Suite:**** Barcode Scanning

****Test Priority:**** High

****Preconditions:****

- * A handheld barcode scanner is connected and functioning properly.
- * An inventory item with a readable barcode is available.
- * The system is running and logged in as a user with appropriate permissions.

****Test Data:****

- * Barcode ID: Valid barcode assigned to an existing inventory item.

****Test Steps:****

1. Navigate to the inventory management module.
2. Select the "Scan Barcode" option.
3. Scan the valid barcode using the handheld scanner.
4. Verify that the system displays the corresponding inventory item details.
5. Confirm the update to the inventory record.

****Postconditions:****

- * The inventory record for the scanned item is updated with the latest quantity.
- * A confirmation message is displayed indicating successful barcode scanning and data update.

****Expected Result:**** The system successfully identifies the barcode, displays the respective inventory item details, and real-time updates the inventory record accurately.

****Severity:**** Blocker

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case 2:**** Verify that the system supports barcode scanning using mobile devices

****Test Case Description:**** This test case aims to ensure the system can recognize barcodes scanned through mobile devices with built-in scanning capabilities.

****Test Suite:**** Barcode Scanning

****Test Priority:**** High

****Preconditions:****

- * A mobile device with a functional barcode scanner is available (smartphone/tablet).
- * The system is accessible via a mobile browser or dedicated app.
- * A user account is logged in.

****Test Data:****

* Barcode ID: Valid barcode assigned to an existing inventory item.

****Test Steps:****

1. Access the Inventory Management System using the mobile device.
2. Navigate to the "Scan Barcode" option.
3. Using the mobile device's camera, scan the valid barcode.
4. Verify that the system displays the corresponding inventory item details.
5. Confirm the update to the inventory record.

****Postconditions:****

- * The inventory record for the scanned item is updated with the latest quantity.
- * A confirmation message is displayed indicating successful barcode scanning and data update.

****Expected Result:**** The system accurately scans the barcode using the mobile device, displays the relevant inventory information, and updates the inventory record in real-time.

****Severity:**** Blocker

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case 3:**** Verify that the system provides error messages for invalid barcodes

****Test Case Description:**** This test case ensures the system handles invalid barcodes appropriately by

displaying clear error messages and preventing unintended data updates.

****Test Suite:**** Barcode Scanning

****Test Priority:**** Medium

****Preconditions:****

- * The system is running and logged in as a user.
- * The "Scan Barcode" option is accessible within the inventory management module.

****Test Data:****

- * Barcode ID: Invalid barcode not associated with any inventory item.

****Test Steps:****

1. Navigate to the inventory management module.
2. Select the "Scan Barcode" option.
3. Scan the invalid barcode using a handheld or mobile scanner.
4. Verify that the system displays a clear error message indicating the barcode is invalid.
5. Confirm that no updates are made to any inventory records.

****Postconditions:****

- * The system displays a user-friendly error message for the invalid barcode.
- * No changes are made to any existing inventory records.

****Expected Result:**** The system correctly identifies the invalid barcode, prevents unintended data updates, and guides the user with an appropriate error message.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Negative

****Test Case 4:**** Verify that users can review and confirm scanned data before finalizing updates

****Test Case Description:**** This test case verifies the system allows users to review scanned data before committing to update inventory records, ensuring accuracy and minimizing human error.

****Test Suite:**** Barcode Scanning

****Test Priority:**** Medium

****Preconditions:****

- * The system is running and logged in as a user.
- * An existing inventory item is available for scanning.

****Test Data:****

- * Barcode ID: Valid barcode assigned to an existing inventory item.

****Test Steps:****

1. Navigate to the inventory management module.
2. Select the "Scan Barcode" option.
3. Scan the valid barcode.
4. Verify the system displays the captured data (e.g., item ID, barcode, quantity).
5. Confirm that the system provides an option to "Review" or "Preview" the data before final submission.
6. Select "Preview" and review the displayed details.

****Postconditions:****

- * The system allows the user to review the scanned data before committing to the update.
- * The user has an opportunity to correct any errors or inaccuracies before finalizing the update.

****Expected Result:**** The system facilitates a double-check process, allowing users to review and confirm the accuracy of scanned data before making permanent changes to inventory records.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case 5:**** Verify that the system handles different barcode formats

****Test Case Description:**** This test case verifies the system's ability to interpret various barcode formats commonly used in inventory management (e.g., Code 128, EAN-13, UPC-A).

****Test Suite:**** Barcode Scanning

****Test Priority:**** Medium

****Preconditions:****

- * Inventory items with different barcode formats are available.
- * The system is running and logged in as a user.

****Test Data:****

- * Barcodes:
 - * Barcode ID 1: Valid Code 128 barcode
 - * Barcode ID 2: Valid EAN-13 barcode
 - * Barcode ID 3: Valid UPC-A barcode

****Test Steps:****

1. Navigate to the inventory management module.
2. Select the "Scan Barcode" option.
3. Scan each of the different barcode formats (Code 128, EAN-13, UPC-A) using a compatible scanner.
4. Verify that the system correctly identifies and displays the corresponding inventory item details for each barcode format.

****Postconditions:****

- * Inventory records are updated accurately for each scanned barcode format.

* No error messages are displayed for valid barcodes.

****Expected Result:**** The system successfully decodes and processes various barcode formats, ensuring accurate inventory updates.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Note:**** These are example test cases and can be expanded upon depending on the specific requirements and complexity of the Inventory Management System.

Data - 153

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and

supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Classification

Feature description -

The system categorizes inventory items into different classes or categories based on attributes such as product type, SKU, or supplier. This feature helps users organize and manage inventory more effectively, improve search and retrieval processes, and analyze inventory data by category.

Userstory title -

As a user, I want to classify inventory items into categories so that I can organize and manage inventory more effectively.

Acceptance criteria -

['The system supports inventory classification functionality.', 'Users can categorize inventory items based on attributes such as product type, SKU, or supplier.', 'Inventory categories can be created, edited, and deleted by users.', 'The system displays categorized inventory items for easy retrieval.', 'Users can generate reports based on inventory categories.']

Generated Test Cases:

Test Cases for Inventory Classification Feature

****Test Case ID:**** TC_INV_CLS_01

****Test Case Title:**** Verify that users can create new inventory categories.

****Test Case Description:**** This test case verifies the functionality of creating new inventory categories

within the system. It will involve creating a new category with a valid name and verifying its successful addition to the available category list.

****Test Suite:**** Inventory Management Features

****Test Priority:**** High

****Preconditions:****

- * User has valid login credentials to access the system.
- * User has permission to create inventory categories.

****Test Data:****

- * Valid category name: "Electronics"

****Test Steps:****

1. Log in to the Inventory Management System.
2. Navigate to the "Inventory Classification" section.
3. Click on the "Create New Category" button.
4. Enter the category name "Electronics" in the designated field.
5. Click on the "Save" button.
6. Verify that the "Electronics" category is displayed in the list of available categories.

****Postconditions:****

- * The newly created category "Electronics" is accessible in the system.

****Expected Result:**** Category "Electronics" is successfully created and displayed in the inventory classification list.

****Severity:**** Critical

****Type of Testing:**** Functional Testing

****Test Case ID:**** TC_INV_CLS_02

****Test Case Title:**** Verify that users can edit existing inventory categories.

****Test Case Description:**** This test case verifies the functionality of editing existing inventory categories in the system. It will involve creating a category, editing its name, and verifying the successful update.

****Test Suite:**** Inventory Management Features

****Test Priority:**** High

****Preconditions:****

- * User has valid login credentials to access the system.
- * User has permission to edit inventory categories.
- * A category "Electronics" has been successfully created (refer to TC_INV_CLS_01)

****Test Data:****

- * Original category name: "Electronics"
- * Edited category name: "Electronics & Accessories"

****Test Steps:****

1. Log in to the Inventory Management System.
2. Navigate to the "Inventory Classification" section.
3. Select the category "Electronics" from the list.
4. Click on the "Edit" button.
5. Change the category name to "Electronics & Accessories".
6. Click on the "Save" button.

****Postconditions:****

- * The category name "Electronics" has been updated to "Electronics & Accessories".

****Expected Result:**** The category name is successfully updated to "Electronics & Accessories" in the inventory classification list.

****Severity:**** Critical

****Type of Testing:**** Functional Testing

****Test Case ID:**** TC_INV_CLS_03

****Test Case Title:**** Verify that users can delete existing inventory categories.

****Test Case Description:**** This test case verifies the functionality of deleting existing inventory categories from the system.

****Test Suite:**** Inventory Management Features

****Test Priority:**** High

****Preconditions:****

- * User has valid login credentials to access the system.
- * User has permission to delete inventory categories.
- * A category "Electronics & Accessories" has been successfully created (refer to TC_INV_CLS_02).

****Test Data:****

- * Target category name: "Electronics & Accessories"

****Test Steps:****

1. Log in to the Inventory Management System.
2. Navigate to the "Inventory Classification" section.
3. Select the category "Electronics & Accessories" from the list.
4. Click on the "Delete" button.
5. Confirm the deletion in the pop-up dialog box.

****Postconditions:****

- * The category "Electronics & Accessories" is removed from the list.

****Expected Result:**** The category "Electronics & Accessories" is successfully deleted from the inventory classification list.

****Severity:**** Critical

****Type of Testing:**** Functional Testing

****Test Case ID:**** TC_INV_CLS_04 (Positive)

****Test Case Title:**** Verify that inventory items are displayed based on selected categories.

****Test Case Description:**** This test case verifies that the system correctly displays inventory items belonging to a specific chosen category.

****Test Suite:**** Inventory Management Features

****Test Priority:**** Medium

****Preconditions:****

- * User has valid login credentials to access the system.

* At least two categories with inventory items each have been created.

****Test Data:****

* Target category: "Electronics" (or any other category)

****Test Steps:****

1. Log in to the Inventory Management System.
2. Navigate to the "Inventory" section.
3. Select the "Electronics" category from the available category filters.
4. Verify that only inventory items belonging to the "Electronics" category are displayed in the list.

****Postconditions:****

* The filtered inventory list shows only "Electronics" category items.

****Expected Result:**** The system accurately filters and displays inventory items based on the selected category.

****Severity:**** Major

****Type of Testing:**** Functional Testing

****Test Case ID:**** TC_INV_CLS_05 (Negative)

****Test Case Title:**** Verify that the system handles invalid category names.

****Test Case Description:**** This test case verifies the system's response to attempts at creating a category with an invalid name (e.g., empty name, special characters).

****Test Suite:**** Inventory Management Features

****Test Priority:**** Medium

****Preconditions:****

- * User has valid login credentials to access the system.
- * User has permission to create inventory categories.

****Test Data:****

- * Invalid category names: "", "123!", "#\$%^&"

****Test Steps:****

1. Log in to the Inventory Management System.
2. Navigate to the "Inventory Classification" section.
3. Click on the "Create New Category" button.
4. Attempt to create categories with the following invalid names:
 - * "" (empty string)
 - * "123!"
5. Attempt to create a category with the invalid name "#\$%^&"

6. Note any error messages displayed by the system for each attempt.

****Postconditions:****

* The system displays appropriate error messages for each invalid category name attempt.

****Expected Result:**** The system rejects the creation of categories with invalid names and displays clear error messages explaining the issue.

****Severity:**** Minor

****Type of Testing:**** Functional Testing

Data - 154

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock

alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Stock Alerts and Notifications

Feature description -

Users receive alerts and notifications when inventory levels fall below predefined thresholds or when stock movements occur. This feature enables proactive inventory management, alerts users to potential stock shortages or overstocks, and helps prevent stockouts or excess inventory holding costs.

Userstory title -

As a user, I want to receive alerts and notifications for stock level changes so that I can manage inventory proactively.

Acceptance criteria -

['The system provides alerts for low stock levels.', 'Users receive notifications for stock movements.', 'Alerts are customizable based on user-defined thresholds.', 'Notifications are sent in real-time.', 'Users can view and manage alerts within the system.']

Generated Test Cases:

Here are 5 test cases for the "Stock Alerts and Notifications" feature of the Inventory Management System, following your template:

Inventory Management System - Stock Alerts and Notifications Test Cases

****Test Case ID:**** TC_ALM_001

****Test Case Title:**** Verify that the system sends alerts for low stock levels.

****Test Case Description:**** This test case verifies that the system triggers alerts when an item's stock level falls below the user-defined low stock threshold.

****Test Suite:**** Inventory Management

****Test Priority:**** High

****Preconditions:****

- * A valid user account is created with access to manage inventory and alerts.
- * At least one item is added to the inventory with a pre-defined low stock threshold.
- * The system is configured to send notifications via email.

****Test Data:****

- * Product ID: 12345
- * Current Stock Quantity: 5
- * Low Stock Threshold: 2
- * Email address of the test user

****Test Steps:****

1. Log in to the Inventory Management System as the test user.
2. Navigate to the inventory management module.
3. Locate the product with ID 12345.
4. Reduce the stock quantity for the product to 1.
5. Verify that an alert is sent to the test user's email address indicating that the stock level for product 12345 has fallen below the threshold.

****Postconditions:****

- * The low stock alert remains active until the stock level is replenished above the threshold.

****Expected Result:**** An email notification is received confirming a low stock level for product 12345.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_ALM_002**

****Test Case Title:** Verify that users receive notifications for stock movements.**

****Test Case Description:** This test case confirms that the system notifies users whenever changes occur in stock levels, such as additions or removals.**

****Test Suite:** Inventory Management**

****Test Priority:** High**

****Preconditions:****

* A valid user account is created with access to manage inventory and alerts.

* Noticeable stock changes are simulated with a product.

****Test Data:****

* Product ID: 67890

* Initial Stock Quantity: 10

****Test Steps:****

1. Log in to the system as the test user.
2. Navigate to the inventory management module.

3. Locate the product with ID 67890.
4. Add 5 units of the product to the stock (Total: 15).
5. Verify that a notification is received confirming the increase in stock for product 67890.
6. Subsequently, remove 3 units of the product (Total: 12).
7. Verify that a notification is received confirming the decrease in stock for product 67890.

****Postconditions:****

* Users remain alerted throughout the simulated stock movement scenarios.

****Expected Result:**** Notifications are received promptly for both stock addition and removal events.

****Test Case ID:**** TC_ALM_003

****Test Case Title:**** Verify that alerts are customizable based on user-defined thresholds.

****Test Case Description:**** This test case tests the ability to set different low stock thresholds for different products.

****Test Suite:**** Inventory Management

****Test Priority:**** Medium

****Preconditions:**** Same as TC_ALM_001

****Test Data:****

* Product ID: 12345

* Low Stock Threshold (Original): 2

* New Low Stock Threshold: 5

****Test Steps:****

1. Log in as the test user and navigate to the product details for product 12345.
2. Edit the product's low stock threshold setting and modify it from 2 to 5.
3. Reduce the stock level of product 12345 to 4.
4. Verify that no alert is generated.
5. Reduce the stock level of product 12345 to 3.
6. Verify that an alert is generated, notifying the test user that the stock level has fallen below the updated threshold.

****Postconditions:****

- * The updated low stock threshold remains active.

****Expected Result:**** An alert is only triggered when the stock level falls below the new, custom threshold of 5.

****Severity:**** High

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_ALM_004

****Test Case Title:**** Verify that notifications are sent in real-time.

****Test Case Description:**** This test case validates that users receive notifications instantaneously upon stock level changes.

****Test Suite:**** Inventory Management

****Test Priority:**** High

****Preconditions:****

- * A valid user account with email notifications enabled is logged in.
- * An item is added to the inventory with a pre-defined low stock threshold.

****Test Data:****

- * Product ID: 11223
- * Initial Stock Quantity: 10
- * Low Stock Threshold: 3

****Test Steps:****

1. Log in to the system as the test user.
2. Using a simulated scenario, immediately reduce the stock quantity for product 11223 to 2.
3. Observe real-time (within a few seconds) the delivery of a notification alert to the test user's designated email address.

****Postconditions:****

- * The real-time notification should be received promptly.

****Expected Result:**** An immediate notification email is sent upon the stock level dropping.

****Test Case ID:**** TC_ALM_005

****Test Case Title:**** Verify that users can view and manage alerts within the system.

****Test Case Description:**** This test case confirms the functionality to access, view, acknowledge, and clear alerts through the system interface.

****Test Suite:**** Inventory Management

****Test Priority:**** Medium

****Preconditions:****

* A valid user account is logged in with pending alerts for at least one item.

****Test Data:****

* Pending alerts for a specific product in the inventory.

****Test Steps:****

1. Log in to the system as the test user.
2. Navigate to the alerts section within the Inventory Management module.
3. Verify that the pending alerts for the specific product are displayed.
4. Acknowledge an alert by clicking the "Acknowledge" button.
5. Verify that the acknowledged alert is marked as read or dismissed.
6. Clear all alerts by using the "Clear All Alerts" functionality.
7. Ensure that the alerts section shows no pending alerts.

****Postconditions:****

* The system should accurately track the acknowledged and cleared alerts.

****Expected Result:**** The user can view all active alerts, acknowledge them, and clear them from the system interface.

Data - 155

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Order Management

Feature description -

The system provides tools for managing orders, including creating, tracking, and fulfilling purchase and sales orders. This feature helps users streamline order processing, track order status, and ensure timely fulfillment of customer and supplier orders.

Userstory title -

As a user, I want to manage orders efficiently so that I can streamline the order processing and ensure timely fulfillment.

Acceptance criteria -

['Users can create new purchase and sales orders.', 'The system tracks the status of each order from creation to fulfillment.', 'Users receive notifications for order status updates.', 'The system supports order modifications

and cancellations.', 'Users can generate order reports for analysis.']

Generated Test Cases:

Inventory Management System - Order Management Test Cases

Here are 5 detailed test cases for the "Order Management" feature, based on the provided user story and acceptance criteria:

****Test Case 1:****

* ****Test Case ID:**** OMS-001

* ****Test Case Title:**** Verify that users can create new purchase orders.

* ****Test Case Description:**** This test case verifies the functionality of creating a new purchase order with valid data, including item details, quantities, suppliers, and required delivery dates.

* ****Test Suite:**** Order Management

* ****Test Priority:**** High

* ****Preconditions:****

- * User is logged in with appropriate permissions.
- * A supplier is added to the system.
- * Inventory items are available in the system.

* ****Test Data:**** Sample item details, quantities, supplier information, and delivery date

* ****Test Steps:****

1. Navigate to the "Purchase Orders" section.
2. Click on "Create New Order".
3. Select the required supplier from the dropdown.
4. Add items to the order, specifying quantity and desired unit price.
5. Enter required delivery date.

6. Review the order details and click "Submit".

* **Postconditions:**

- * A new purchase order is created and assigned a unique ID.

- * The order details are displayed accurately.

- * The order status is updated to "Pending".

* **Expected Result:** The system successfully creates the new purchase order with the specified details and updates the order status accordingly.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

Test Case 2:

* **Test Case ID:** OMS-002

* **Test Case Title:** Verify that users can track the status of an order.

* **Test Case Description:** This test case verifies the ability to track the progress of an order from creation to fulfillment, including status updates like "Pending", "Approved", "Shipped", and "Delivered".

* **Test Suite:** Order Management

* **Test Priority:** High

* **Preconditions:**

- * A new purchase order has been created (from Test Case 1).

* **Test Data:** Order ID from Test Case 1

* **Test Steps:**

1. Navigate to the "Order Details" page for the created order.

2. Monitor the order status over time, simulating the fulfillment process.

3. Verify that the order status updates accurately at each stage.

* **Postconditions:** N/A

* **Expected Result:** The order status reflects accurate changes as the fulfillment process progresses.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

Test Case 3:

* **Test Case ID:** OMS-003

* **Test Case Title:** Verify that users receive notifications for order status updates.

* **Test Case Description:** This test case confirms that users are notified about key order status changes via email or in-app notifications.

* **Test Suite:** Order Management

* **Test Priority:** High

* **Preconditions:**

- * A new purchase order has been created (from Test Case 1).

- * User email notification settings are configured.

* **Test Data:** User email address

* **Test Steps:**

1. Trigger a status change in the order through the system (e.g., approve order, mark as shipped).

2. Verify that the user receives an appropriate notification via email.

3. If the system has in-app notifications, confirm they are also received.

* **Postconditions:** N/A

* **Expected Result:** The user receives timely and accurate notifications for the order status changes.

* **Severity:** Major

* **Priority:** High

* **Type of Testing:** Functional Testing, Usability Testing

****Test Case 4:****

*** **Test Case ID:** OMS-004**

*** **Test Case Title:**** Verify that users can modify and cancel orders.

*** **Test Case Description:**** This test case ensures the functionality of modifying existing order details (item quantities, quantities, delivery dates) and canceling orders before they are fully fulfilled.

*** **Test Suite:**** Order Management

*** **Test Priority:**** Medium

*** **Preconditions:****

- * A new purchase order has been created (from Test Case 1).

- * The order status is "Pending".

*** **Test Data:**** Order ID from Test Case 1

*** **Test Steps:****

1. Navigate to the "Order Details" page for the created order.
2. Modify the order details (e.g., change quantity for a specific item).
3. Attempt to cancel the order.
4. Verify that the order is updated accordingly (with modifications or canceled) and the status reflects the change.

*** **Postconditions:**** N/A

*** **Expected Result:**** The system allows modification and cancellation of orders before fulfillment, with proper status updates.

*** **Severity:**** Major

*** **Priority:**** Medium

*** **Type of Testing:**** Functional Testing

****Test Case 5:****

* **Test Case ID:** OMS-005

* **Test Case Title:** Verify that users can generate order reports for analysis.

* **Test Case Description:** This test case checks the ability to generate reports on various order-related data, such as total orders, order values, order status distribution by time period, and supplier-wise order summaries.

* **Test Suite:** Order Management

* **Test Priority:** Medium

* **Preconditions:**

* Several purchase and sales orders have been created and fulfilled.

* **Test Data:** Desired date range for report, specific order types, supplier filters

* **Test Steps:**

1. Navigate to the "Reports" section.
2. Select the desired order report template.
3. Configure report parameters (e.g., date range, order types, suppliers).
4. Generate the report.
5. Verify that the report displays accurate data and meets the specified criteria.

* **Postconditions:** N/A

* **Expected Result:** The system generates accurate and comprehensive order reports for the selected filters and criteria.

* **Severity:** Minor

* **Priority:** Medium

* **Type of Testing:** Functional Testing

Data - 156

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Supplier Management

Feature description -

The system manages supplier information such as contact details, pricing agreements, and lead times for inventory items sourced from external suppliers. This feature helps users maintain good supplier relationships, negotiate favorable terms, and track supplier performance.

Userstory title -

As a user, I want to manage supplier information efficiently so that I can maintain good relationships and negotiate favorable terms.

Acceptance criteria -

['Users can add and edit supplier information.', 'The system tracks supplier performance and lead times.', 'Users can view pricing agreements with suppliers.', 'The system provides alerts for supplier contract renewals.', 'Users can generate reports on supplier performance.']

Generated Test Cases:

Inventory Management System: Supplier Management Test Cases

****Test Case ID:**** IMS-SM-001

****Test Case Title:**** Verify that users can add a new supplier

****Test Case Description:**** This test case verifies the functionality of adding a new supplier to the system, ensuring all required fields are correctly populated and saved.

****Test Suite:**** Supplier Management

****Test Priority:**** High

****Preconditions:****

* User is logged in to the Inventory Management System.

* The system has no existing suppliers added.

****Test Data:****

* Supplier Name: ABC Suppliers

* Contact Person: John Doe

* Phone Number: (555) 123-4567

* Email Address: john.doe@abcsuppliers.com

* Address: 123 Main Street, Anytown, USA 12345

****Test Steps:****

1. Navigate to the "Suppliers" section of the Inventory Management System.
2. Click on the "Add New Supplier" button.
3. Fill in all required fields with the provided test data.
4. Click the "Save" button to add the supplier.

5. Verify that the newly added supplier appears in the list of suppliers.

****Postconditions:****

- * The new supplier record is saved in the database.

****Expected Result:**** The new supplier record (ABC Suppliers) is successfully added to the system and displayed in the supplier list.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** IMS-SM-002

****Test Case Title:**** Verify that users can edit existing supplier information

****Test Case Description:**** This test case verifies the functionality of editing an existing supplier's details, ensuring changes are correctly saved and reflected.

****Test Suite:**** Supplier Management

****Test Priority:**** High

****Preconditions:****

- * User is logged in to the Inventory Management System.

- * A supplier (created in Test Case IMS-SM-001) exists in the system.

****Test Data:****

- * Existing Supplier Name: ABC Suppliers
- * Updated Email Address: jane.doe@abcsuppliers.com

****Test Steps:****

1. Navigate to the "Suppliers" section of the Inventory Management System.
2. Locate the supplier (ABC Suppliers) from the supplier list.
3. Click on the "Edit" button.
4. Change the email address to the updated email address.
5. Click the "Save" button to apply the changes.

****Postconditions:****

- * The Edit process for supplier information is completed successfully.

****Expected Result:**** The supplier's email address is successfully updated in the system.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:** IMS-SM-003**

****Test Case Title:** Verify that the system tracks supplier lead times**

****Test Case Description:** This test case verifies the functionality of tracking supplier lead times for inventory items, ensuring correct entry and retrieval.**

****Test Suite:** Supplier Management**

****Test Priority:** Medium**

****Preconditions:****

* User is logged in to the Inventory Management System.

* A supplier (created in Test Case IMS-SM-001) exists in the system.

* An inventory item is added to the system with associated lead time.

****Test Data:****

* Inventory Item: Widget X

* Supplier: ABC Suppliers

* Lead Time: 5 business days

****Test Steps:****

1. Navigate to the "Inventory Items" section of the Inventory Management System.
2. Select the inventory item "Widget X".
3. Verify that the lead time for supplier "ABC Suppliers" is correctly displayed.

****Postconditions:** The lead time for the selected supplier is verified.**

****Expected Result:**** The lead time for "Widget X" sourced from "ABC Suppliers" is correctly displayed as 5 business days.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** IMS-SM-004

****Test Case Title:**** Verify that the system provides alerts for supplier contract renewals

****Test Case Description:**** This test case verifies the functionality of generating alerts for approaching supplier contract renewals.

****Test Suite:**** Supplier Management

****Test Priority:**** High

****Preconditions:****

* User is logged in to the Inventory Management System.

* A supplier (created in Test Case IMS-SM-001) exists in the system with a contract end date set in the future.

****Test Data:****

* Supplier Contract End Date: 2024-03-15

****Test Steps:****

* Login to the system and navigate to the "Suppliers" section.

* View the details of the supplier (ABC Suppliers).

* Verify that the system displays a notification or alert regarding the approaching contract end date (before 2024-03-15).

****Postconditions:**** The alert or notification regarding the upcoming contract renewal is present.

****Expected Result:**** A notification or alert message appears, notifying the user that the contract with "ABC Suppliers" is set to expire on 2024-03-15.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Data - 157

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be

able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Purchase Order Management

Feature description -

Users can create, track, and manage purchase orders for inventory replenishment from suppliers. This feature facilitates communication with suppliers, ensures accurate and timely order placement, and provides visibility into the status of purchase orders from creation to fulfillment.

Userstory title -

As a user, I want to manage purchase orders efficiently so that I can ensure accurate and timely replenishment of inventory.

Acceptance criteria -

['Users can create new purchase orders with essential details.', 'The system tracks the status of each purchase order from creation to fulfillment.', 'Users receive notifications for purchase order status updates.', 'The system supports modifications and cancellations of purchase orders.', 'Users can generate reports on purchase order status and history.']

Generated Test Cases:

Here are 5 test cases for the "Purchase Order Management" feature, following the provided template:

****Test Case 1****

*** **Test Case ID:** PO-001**

*** **Test Case Title:** Verify that a new purchase order can be created with essential details.**

*** **Test Case Description:** This test case ensures that users can successfully create a new purchase order, including required fields like supplier, items, quantity, and total amount.**

*** **Test Suite:** Purchase Order Management**

* **Test Priority:** High

* **Preconditions:**

- * The user is logged into the system with appropriate permissions.

- * At least one supplier and item have been added to the system.

* **Test Data:**

- * Supplier: Acme Inc.

- * Items: 10 units of Product A, 5 units of Product B

- * Total amount: \$500

* **Test Steps:**

1. Navigate to the "Purchase Orders" module.

2. Click on the "Create New Purchase Order" button.

3. Select "Acme Inc." as the supplier.

4. Add "Product A" and "Product B" to the order, specifying quantities.

5. Review and confirm the order details, including total amount.

6. Submit the purchase order.

* **Postconditions:**

- * A new purchase order record is created in the system with the specified details.

- * The purchase order status is initially set to "Pending".

* **Expected Result:** The purchase order is successfully created and displays the requested information.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

****Test Case 2****

* **Test Case ID:** PO-002

* **Test Case Title:** Verify that the system tracks the status of each purchase order.

* **Test Case Description:** This test case verifies that the system accurately updates the status of a purchase order as it progresses through different stages (e.g., Pending, Approved, Ordered, Shipped, Received).

* **Test Suite:** Purchase Order Management (Status Tracking)

* **Test Priority:** High

* **Preconditions:**

- * A purchase order has been created and is in the "Pending" status (refer to Test Case 1).

* **Test Data:** No additional test data needed

* **Test Steps:**

1. Review the purchase order record.
2. Simulate the purchase order being approved by the manager.
3. Update the system status to "Ordered."
4. After a simulated shipping timeframe, update the status to "Shipped."
5. Upon receipt of the goods, update the system status to "Received."

* **Postconditions:**

- * The purchase order record reflects all status changes accurately.

* **Expected Result:** The status of the purchase order changes accordingly through the expected stages.

* **Severity:** Major

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive/Workflow

Test Case 3

* **Test Case ID:** PO-003

* **Test Case Title:** Verify that users receive notifications for purchase order status updates.

* **Test Case Description:** This test case ensures that users receive timely notifications (e.g., email, in-app)

when the status of a purchase order changes.

* **Test Suite:** Purchase Order Management (Notifications)

* **Test Priority:** High

* **Preconditions:**

- * A purchase order has been created and is in the "Pending" status (from Test Case 1).

- * User email notifications for purchase order updates are enabled in the user profile.

* **Test Data:**

- * User's email address

* **Test Steps:**

1. Simulate the purchase order approval.
2. Observe if the user receives an email notification about the purchase order being approved.
3. Repeat for subsequent status updates (Ordered, Shipped, Received).

* **Postconditions:**

* **Expected Result:** The user receives relevant email notifications at each significant status change.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 4

* **Test Case ID:** PO-004

* **Test Case Title:** Verify that users can modify existing purchase orders.

* **Test Case Description:** This test case ensures that users can update details of a purchase order before it is fulfilled (e.g., change quantities, add new items).

* **Test Suite:** Purchase Order Management (Modification)

* **Test Priority:** Medium

* **Preconditions:**

* A purchase order has been created and is in the "Pending" status.

* **Test Data:** Details to modify (e.g., increase quantity of a product)

* **Test Steps:**

1. Open the purchase order record.
2. Click the "Edit" button.
3. Modify the quantity of an existing item.
4. Review the updated information and save the changes.

* **Postconditions:**

* The purchase order record reflects the updated quantity.

* **Expected Result:** The purchase order is successfully modified, and changes are reflected in the system.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 5

* **Test Case ID:** PO-005

* **Test Case Title:** Verify that users can cancel purchase orders.

* **Test Case Description:** This test case ensures that users are able to cancel purchase orders that are not finalized (before being shipped).

* **Test Suite:** Purchase Order Management (Cancellation)

* **Test Priority:** Medium

* **Preconditions:**

* A purchase order has been created (Test Case 1).

* **Test Data:** No additional test data needed

* **Test Steps:**

1. Navigate to the purchase order record.
2. Click the "Cancel" button.
3. Confirm the cancellation.

* **Postconditions:**

- * The purchase order is removed from the system.

* **Expected Result:** The cancellation is successful; the purchase order is no longer accessible in the system.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

Additional Notes:

* You can further expand these test cases by including edge cases and negative scenarios (e.g., cancelling a shipped order, trying to create a purchase order with invalid data).

This set of test cases provides a starting point for comprehensively testing the Purchase Order Management feature.

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Sales Order Management

Feature description -

The system manages sales orders received from customers, including order processing, order fulfillment, and order status tracking. This feature helps users manage order fulfillment workflows efficiently, prioritize orders based on demand or urgency, and provide customers with accurate order status updates.

Userstory title -

As a user, I want to manage sales orders efficiently so that I can ensure accurate and timely order fulfillment for customers.

Acceptance criteria -

['Users can create new sales orders with essential details.', 'The system tracks the status of each sales order from creation to fulfillment.', 'Users receive notifications for sales order status updates.', 'The system supports modifications and cancellations of sales orders.', 'Users can generate reports on sales order status and history.']

Generated Test Cases:

Here are five detailed test cases for the "Sales Order Management" feature, based on the provided acceptance criteria:

Test Case 1

****Test Case ID:**** SO-001

****Test Case Title:**** Verify that users can create new sales orders with essential details.

****Test Case Description:**** This test case verifies the functionality of creating a new sales order with mandatory fields, ensuring data integrity and completeness.

****Test Suite:**** Sales Order Management

****Test Priority:**** High

****Preconditions:****

- * User is logged into the Inventory Management System with administrative privileges.
- * At least one product is available in the inventory.

****Test Data:****

- * Valid customer details (name, address, contact information)
- * Valid product IDs
- * Quantities to be ordered
- * Valid shipping address

****Test Steps:****

1. Navigate to the "Sales Orders" section of the system.
2. Click the "Create New Order" button.
3. Fill in the customer details with valid information.
4. Select the desired product(s) and enter the required quantities.
5. Specify the shipping address.
6. Review the order details and click "Submit."

****Postconditions:****

- * A new sales order is created and assigned a unique ID.
- * The order details are reflected accurately in the system.

****Expected Result:**** The system successfully creates a new sales order with the provided details without encountering any errors.

****Severity:**** Blocker

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 2

****Test Case ID:**** SO-002

****Test Case Title:**** Verify that the system tracks the status of each sales order from creation to fulfillment.

****Test Case Description:**** This test case verifies the ability of the system to accurately update and display the status of each sales order throughout its lifecycle.

****Test Suite:**** Sales Order Management

****Test Priority:**** High

****Preconditions:****

- * A sales order is successfully created as per Test Case SO-001.
- * The user has appropriate permissions to view and update order status.

****Test Data:****

- * The sales order created in Test Case SO-001.

****Test Steps:****

1. Access the sales order details through the system's interface.
2. Observe the initial order status (e.g., "Pending").
3. Manually update the order status to "Processing" within the system.
4. Update the order status again to "Shipped" after a simulated shipping process.

5. Verify that the order status reflects the changes made.

****Postconditions:****

- * The order status has been updated successfully in the system.
- * A history of status updates is recorded for the order.

****Expected Result:**** The system accurately tracks and displays the status changes of the sales order as per the user-defined updates.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 3

****Test Case ID:**** SO-003

****Test Case Title:**** Verify that users receive notifications for sales order status updates.

****Test Case Description:****

This test case verifies that users receive timely and appropriate notifications about changes in sales order status.

****Test Suite:**** Sales Order Management

****Test Priority:**** High

****Preconditions:****

- * A sales order is successfully created and has an associated email address for the customer.
- * The system's notification settings are configured to send email alerts for status changes.

****Test Data:****

- * A valid email address associated with the customer for the sales order.

****Test Steps:****

1. Log in as a user with the permissions to update order status.
2. Retrieve the sales order created in Test Case SO-001.
3. Change the order status from ?Pending? to ?Processing.?
4. Verify an email notification is sent to the customer's email address.

****Postconditions:****

- * A notification email is received by the customer.

* The email content accurately reflects the change in order status.

****Expected Result:**** The customer receives an email notification promptly after the order status is updated.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing, Non-functional Testing

****Test Case Approach:**** Positive

Test Case 4

****Test Case ID:**** SO-004

****Test Case Title:**** Verify that the system supports modifications and cancellations of sales orders.

****Test Case Description:**** This test case ensures that users can modify order details or cancel orders as needed while adhering to business rules.

****Test Suite:**** Sales Order Management

****Test Priority:**** Medium

****Preconditions:****

- * A sales order is successfully created (as per Test Case SO-001).

****Test Data:****

- * The sales order created in Test Case SO-001

****Test Steps:****

1. Access the details of the created sales order.
2. Modify quantities for one or more products.
3. Attempt to cancel the entire order.
4. Verify that changes are posted accurately and that the order can be canceled if permitted.

****Postconditions:****

- * Modified quantities are reflected in the order details.
- * The order is canceled successfully if permissible (subject to any cancellation rules).

****Expected Result:**** The system allows for authorized modifications and cancellations of sales orders, and updates the order status and details accordingly.

****Severity:**** Major

****Priority:** Medium**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive, Negative**

Test Case 5

****Test Case ID:** SO-005**

****Test Case Title:** Verify that users can generate reports on sales order status and history.**

****Test Case Description:** This test case assesses the functionality of generating reports to analyze sales order data, including status trends and historical information.**

****Test Suite:** Sales Order Management**

****Test Priority:** Medium**

****Preconditions:****

*** At least three sales orders are created with varying statuses.**

****Test Data:****

* Data for the three sales orders (IDs, statuses, creation dates, etc.)

****Test Steps:****

1. Navigate to the sales order reporting section within the system.
2. Select a reporting option (e.g., "Current Order Status," "Order History by Date").
3. Filter the report based on desired criteria (e.g., date range, order status).
4. Generate the report.

****Postconditions:****

- * A report is generated containing relevant sales order data matching the selected criteria.
- * The report is presented in a clear and understandable format.

****Expected Result:**** The system generates accurate reports on sales order status and history, allowing users to analyze trends and insights.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Non-Functional Testing

****Test Case Approach:** Positive**

Data - 159

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Valuation

Feature description -

The system calculates the value of inventory on hand using various valuation methods such as FIFO (First In, First Out) or LIFO (Last In, First Out). This feature provides users with accurate inventory valuation for financial reporting purposes, tax compliance, and decision-making related to inventory investments.

Userstory title -

As a user, I want to calculate the value of inventory on hand using different valuation methods so that I can accurately report inventory value for financial purposes.

Acceptance criteria -

['Users can select different inventory valuation methods (FIFO, LIFO, etc.).', 'The system calculates the value

of inventory on hand based on the selected valuation method.', 'Inventory valuation reports can be generated and viewed within the system.', 'The system supports exporting inventory valuation reports for financial reporting.', 'Users receive notifications for any discrepancies found during inventory valuation.']

Generated Test Cases:

Test Cases for Inventory Valuation Feature

****Project**:** Inventory Management System

****Feature**:** Inventory Valuation

Test Case 1: Verify that the system allows users to select different inventory valuation methods.

****Test Case Description**:** This test case verifies that the system provides options for selecting different inventory valuation methods (FIFO, LIFO, Weighted Average, etc.) as specified in the user story. It ensures the user interface allows for this selection.

****Test Suite**:** Inventory Management

****Test Priority**:** High

****Preconditions**:**

* User is logged into the system with appropriate permissions.

* Inventory items have been added to the system.

****Test Data**:** No test data needed.

****Test Steps**:**

1. Navigate to the Inventory Valuation module.
2. Locate the "Valuation Method" dropdown field.
3. Select "FIFO" from the dropdown menu.
4. Confirm that the system displays the selected method.
5. Repeat steps 3-4 for other available valuation methods (LIFO, Weighted Average, etc.).

****Postconditions**:**

- * System reverts to default valuation method or retains the last selected method.

****Expected Result**:** The system successfully allows selection of different inventory valuation methods.

****Severity**:** Major

****Priority**:** High

****Type of Testing**:** Functional Testing, User Interface Testing

****Test Case Approach**:** Positive

Test Case 2: Verify that the system calculates the value of inventory on hand based on the selected valuation method.

****Test Case Description**:** This test case verifies that the system accurately calculates the value of inventory on hand based on the chosen valuation method. It tests against various scenarios and quantity levels to ensure accuracy.

****Test Suite****: Inventory Management

****Test Priority****: High

****Preconditions****:

- * User is logged into the system with appropriate permissions.
- * Inventory items have been added with different purchase costs and quantities.
- * A specific valuation method is selected.

****Test Data****:

- * Inventory items with different purchase costs.

****Test Steps****:

1. Select a specific valuation method (e.g., FIFO).
2. Generate an inventory valuation report.
3. Cross-reference the calculated value of inventory on hand with manual calculations based on the selected method and item data.
4. Repeat steps 1-3 for different valuation methods and varying inventory quantities.

****Postconditions****:

- * Inventory valuation report generated and saved.

****Expected Result****: The system accurately displays the value of inventory on hand consistent with the selected valuation method.

****Severity**:** Critical

****Priority**:** High

****Type of Testing**:** Functional Testing, Data Validation Testing

****Test Case Approach**:** Positive, Positive (with varying data)

Test Case 3: Verify that inventory valuation reports can be generated and viewed within the system.

****Test Case Description**:** This test case ensures the system generates reports on inventory valuation and allows for their convenient viewing within the application.

****Test Suite**:** Inventory Management

****Test Priority**:** Medium

****Preconditions**:**

- * Inventory items have been added to the system.
- * A valuation method is selected.
- * User has logged in with appropriate permissions.

****Test Data**:** No test data needed

****Test Steps**:**

1. Navigate to the Inventory Valuation module.

2. Select a desired date range for the report.
3. Initiate the generation of an inventory valuation report.
4. Verify that the report is successfully generated.
5. Open and review the generated report, ensuring all necessary details (item ID, description, quantity, value, etc.) are accurately displayed.

****Postconditions**:**

- * Report is saved in system's report library.

****Expected Result**:** The system generates a valid inventory valuation report with relevant data within the application interface.

****Severity**:** Major

****Priority**:** Medium

****Type of Testing**:** Functional Testing, Reporting Testing

****Test Case Approach**:** Positive

Test Case 4: Verify that the system supports exporting inventory valuation reports.

****Test Case Description**:** This test case verifies the capability to export generated inventory valuation reports in commonly used formats (e.g., Excel, PDF) for external sharing and analysis.

****Test Suite**:** Inventory Management

****Test Priority**:** Medium

****Preconditions**:**

- * Inventory items have been added to the system.
- * A valuation method is selected.
- * A user with appropriate permissions is logged in.

****Test Data**:** No test data needed

****Test Steps**:**

1. Navigate to the Inventory Valuation module.
2. Generate an inventory valuation report for a specific date range.
3. Locate and click on the "Export" button within the report interface.
4. Select a desired export format (e.g., Excel, PDF).
5. Verify that the report is successfully exported to the specified format.

****Postconditions**:**

- * The downloaded export file is saved in the user's designated folder.

****Expected Result**:** The system exports the inventory valuation report in the selected format, containing all necessary data.

****Severity**:** Major

****Priority**:** Medium

****Type of Testing**:** Functional Testing, Reporting Testing

****Test Case Approach**:** Positive

Test Case 5: Verify that users receive notifications for inventory valuation discrepancies.

****Test Case Description**:** This test case verifies the functionality of notifications for inventory valuation discrepancies.

****Test Suite**:** Inventory Management

****Test Priority**:** High

****Preconditions**:**

- * Inventory items have been added to the system with different purchase costs and quantities.
- * A specific valuation method is selected.
- * Notification settings are configured for discrepancy alerts.

****Test Data**:**

- * Manual adjustments to inventory quantities or purchase costs.

****Test Steps**:**

1. Make deliberate, minor adjustments to inventory quantities or purchase costs that would lead to valuation discrepancies.

2. Trigger an inventory valuation calculation.
3. Verify that a notification is received by the user alerting about the discrepancies detected.
4. Review the notification details, ensuring they accurately identify the items causing the discrepancies and the nature of the issue.

****Postconditions**:**

- * Discrepancy records are logged within the system.

****Expected Result**:** The system reliably detects and notifies users about any discrepancies found during inventory valuation.

****Severity**:** Major

****Priority**:** High

****Type of Testing**:** Functional Testing, Usability Testing

****Test Case Approach**:** Positive, Negative

Data - 160

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Forecasting

Feature description -

Users can generate inventory forecasts and demand projections based on historical sales data, seasonal trends, and market analysis. This feature helps users anticipate future inventory requirements, optimize inventory levels, and plan inventory investments more effectively to meet customer demand.

Userstory title -

As a user, I want to generate inventory forecasts so that I can anticipate future inventory requirements and optimize inventory levels.

Acceptance criteria -

['Users can input parameters for inventory forecasting (e.g., historical sales data, seasonal trends).', 'The system generates inventory forecasts based on the input parameters.', 'Users can view and analyze inventory forecasts within the system.', 'The system supports exporting inventory forecast reports for planning purposes.', 'Users receive notifications for any significant changes in inventory forecasts.']

Generated Test Cases:

Inventory Management System - Inventory Forecasting Test Cases

****User Story:**** As a user, I want to generate inventory forecasts so that I can anticipate future inventory requirements and optimize inventory levels.

Test Case 1

****Test Case ID:**** TC_IF_01

****Test Case Title:**** Verify that the system allows users to input historical sales data for forecasting.

****Test Case Description:**** This test case verifies the functionality of inputting historical sales data into the system for generating inventory forecasts.

****Test Suite:**** Inventory Forecasting

****Test Priority:**** High

****Preconditions:****

* User is logged into the system with appropriate permissions.

* Inventory Management system is running.

****Test Data:**** Sample historical sales data for a specific product (e.g., CSV file).

****Test Steps:****

1. Navigate to the Inventory Forecasting module within the system.
2. Select the product for which you want to generate a forecast.
3. Choose the historical sales data input method (e.g., upload file, manually enter data).
4. Input the historical sales data for the selected product, ensuring data format and completeness.
5. Review the entered data for accuracy.

****Postconditions:****

* Historical sales data is successfully imported/entered into the system.

* The system validates the entered data format and completeness.

****Expected Result:**** The system should correctly accept the historical sales data inputs, allowing the user to proceed with generating the forecast.

****Severity:**** Major

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Test Case 2

****Test Case ID:** TC_IF_02**

****Test Case Title:** Verify that the system generates inventory forecasts based on input parameters.**

****Test Case Description:** This test case verifies the system's ability to generate accurate forecasts based on the provided historical sales data and any additional input parameters.**

****Test Suite:** Inventory Forecasting**

****Test Priority:** High**

****Preconditions:****

- * Historical sales data is successfully imported/entered for a specific product (as per Test Case TC_IF_01).
- * User is logged into the system with appropriate permissions.
- * Inventory Management system is running.

****Test Data:** Sample historical sales data, seasonal trend data (if applicable).**

****Test Steps:****

1. Navigate to the Inventory Forecasting module and select the product with inputted data.
2. Select the desired forecast period (e.g., next month, next quarter).
3. Choose any additional parameters for forecasting (e.g., seasonality, market trends).
4. Initiate the forecast generation process.

****Postconditions:****

- * The system generates the forecast report for the selected period.
- * The report displays the forecasted inventory levels based on input parameters.

****Expected Result:**** The system should generate a comprehensive forecast report outlining predicted inventory levels for the specified period.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 3

****Test Case ID:**** TC_IF_03

****Test Case Title:**** Verify that users can view and analyze inventory forecast reports.

****Test Case Description:**** This test case ensures users can effectively access, navigate, and analyze the generated inventory forecasts within the system.

****Test Suite:**** Inventory Forecasting

****Test Priority:**** High

****Preconditions:****

- * An inventory forecast report has been generated successfully (as per Test Case TC_IF_02).
- * User is logged into the system with appropriate permissions.
- * Inventory Management system is running.

****Test Data:**** Generated forecast report.

****Test Steps:****

1. Access the Inventory Forecasting module.
2. Locate and open the relevant forecast report.
3. Navigate through different sections and charts within the report.

4. Filter and sort data based on specific criteria (e.g., product, time period).

****Postconditions:****

* Report data is accessible and visually presented in a clear manner.

****Expected Result:**** The user should be able to easily view, analyze, and interpret the forecast report data, gaining insights into future inventory requirements.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing, Usability Testing

****Test Case Approach:**** Positive

Test Case 4

****Test Case ID:**** TC_IF_04

****Test Case Title:**** Verify that the system supports exporting inventory forecast reports in various formats.

****Test Case Description:**** This test case verifies the system's ability to export the generated forecast reports in different formats for broader utilization and sharing.

****Test Suite:**** Inventory Forecasting

****Test Priority:**** Medium

****Preconditions:****

* An inventory forecast report has been successfully generated (as per Test Case TC_IF_02).

* User is logged into the system with appropriate permissions.

* Inventory Management system is running.

****Test Data:**** Generated forecast report.

****Test Steps:****

1. Access the Inventory Forecasting module.
2. Locate and open the relevant forecast report.
3. Use the export feature to download the report in various formats (e.g., CSV, Excel, PDF).

****Postconditions:****

- * The report is successfully downloaded in the chosen format.

****Expected Result:**** The system should allow exporting the forecast report in multiple common formats, facilitating data sharing and integration with other systems.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 5

****Test Case ID:**** TC_IF_05

****Test Case Title:**** Verify that users receive notifications for significant changes in inventory forecasts.

****Test Case Description:**** This test case verifies the functionality of the system's notification system regarding substantial shifts in projected inventory levels.

****Test Suite:**** Inventory Forecasting

****Test Priority:**** Medium

****Preconditions:****

- * An inventory forecast has been generated (as per Test Case TC_IF_02).
- * User account has email/push notification settings enabled.
- * Inventory Management system is running.

****Test Data:****

- * Adjusted historical sales data (significantly impacting forecast)
- * Predefined threshold for notification triggers (e.g., 10% change)

****Test Steps:****

1. Navigate to the Inventory Forecasting module and access the generated forecast report.
2. Manually adjust historical sales data to create a significant change in forecasted inventory levels (e.g., increase sales by 20%).
3. Re-generate the forecast report with the adjusted data.

****Postconditions:****

- * System sends a notification to the user (email/push).

****Expected Result:**** User receives a notification alert via their preferred method indicating the significant change in the inventory forecast due to the adjusted data.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Non-Functional Testing

****Test Case Approach:**** Positive

Data - 161

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Batch and Lot Tracking

Feature description -

The system tracks inventory items by batch or lot numbers, enabling traceability and accountability throughout the supply chain. This feature is particularly useful for industries such as food and pharmaceuticals where product safety and compliance with regulatory requirements are critical.

Userstory title -

As a user, I want to track inventory items by batch or lot numbers so that I can ensure traceability and accountability throughout the supply chain.

Acceptance criteria -

['Users can assign batch or lot numbers to inventory items.', 'The system tracks inventory items by assigned batch or lot numbers.', 'Users can view and search for inventory items by batch or lot numbers.', 'The system supports generating reports on batch or lot numbers for traceability.', 'Users receive notifications for any discrepancies found during batch or lot tracking.']

Generated Test Cases:

Test Cases for Batch and Lot Tracking Feature

****Test Case ID:**** TC_BatchLot_1

****Test Case Title:**** Verify that users can assign batch or lot numbers to inventory items.

****Test Case Description:**** This test case verifies the functionality of assigning batch or lot numbers to new and existing inventory items.

****Test Suite:**** Inventory Management

****Test Priority:**** High

****Preconditions:****

- * User is logged in to the Inventory Management System with appropriate permissions.

- * An inventory item exists in the system.

****Test Data:**** Unique batch/lot numbers. Different formats for batch/lot numbers (e.g., numerical, alphanumeric, code)

****Test Steps:****

1. Navigate to the inventory item details page.
2. Enter a new batch/lot number in the designated field.
3. Save the changes.
4. Verify that the entered batch/lot number is displayed in the inventory item details.
5. Repeat steps 2-4 with different batch/lot number formats.

****Postconditions:****

- * Inventory item details page updated with new batch/lot numbers.

****Expected Result:**** The system successfully assigns the entered batch/lot numbers to the inventory item.

****Severity:**** Blocker

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_BatchLot_2

****Test Case Title:**** Verify that the system tracks inventory items by assigned batch or lot numbers.

****Test Case Description:**** This test case verifies the system's ability to track individual inventory items based on their assigned batch/lot numbers.

****Test Suite:**** Inventory Management

****Test Priority:**** High

****Preconditions:****

- * Inventory items with different batch/lot numbers are added to the system.

- * An individual item's quantity is updated.

****Test Data:****

- * Inventory items with different batch/lot numbers

- * Quantity changes for specific items

****Test Steps:****

1. Search for an inventory item by its specific batch/lot number.
2. Verify that the system retrieves the corresponding item details, including quantity.
3. Update the quantity of the item through the system.
4. Search for the same item again by its batch/lot number.
5. Verify that the updated quantity is reflected in the retrieved details.

****Postconditions:****

* Inventory item details updated with new quantities.

****Expected Result:**** The system accurately tracks and reflects quantity changes for each individual inventory item identified by its batch/lot number.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Data Validation Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_BatchLot_3

****Test Case Title:**** Verify that users can view and search for inventory items by batch or lot numbers.

****Test Case Description:**** This test case verifies the functionality of searching and viewing inventory items using batch/lot number filters.

****Test Suite:**** Inventory Management

****Test Priority:** Medium**

****Preconditions:****

* Inventory items with different batch/lot numbers are added to the system.

****Test Data:**** Specific batch/lot numbers of existing items

****Test Steps:****

1. Navigate to the inventory management search page.
2. Enter a specific batch/lot number in the designated search field.
3. Click the search button.
4. Verify that the system returns results displaying only inventory items matching the entered batch/lot number.
5. Clear the search field and repeat steps 1-4 with a different batch/lot number.

****Postconditions:****

* System returns relevant results based on batch/lot number filters.

****Expected Result:**** The system accurately filters and displays inventory items based on the provided batch/lot number searches.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional Testing, User Interface Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_BatchLot_4**

****Test Case Title:** Verify that the system generates reports on batch or lot numbers for traceability.**

****Test Case Description:** This test case ensures the system creates reports displaying batch/lot number information for traceability.**

****Test Suite:** Inventory Management**

****Test Priority:** Medium**

****Preconditions:****

* Inventory items with different batch/lot numbers are added to the system.

****Test Data:****

* Report template specifying batch/lot number information

****Test Steps:****

1. Navigate to the reporting section of the Inventory Management System.
2. Select the report template that includes batch/lot number details.
3. Define the report parameters (date range, product categories, etc.)
4. Generate the report.

5. Verify that the report displays the requested batch/lot number information for the selected criteria.

****Postconditions:****

* Report generated successfully displaying batch/lot number data

****Expected Result:**** The system generates a comprehensive report including batch/lot number details for the specified items and time frame.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Reporting

****Test Case Approach:**** Positive

****Test Case ID:**** TC_BatchLot_5

****Test Case Title:**** Verify that users receive notifications for any discrepancies found during batch or lot tracking.

****Test Case Description:**** This test case tests the functionality of notifications for batch/lot tracking discrepancies.

****Test Suite:**** Inventory Management

****Test Priority:**** High

****Preconditions:****

- * Two inventory items with different batch/lot numbers are added to the system.
- * One item is recorded with an incorrect batch/lot number.

****Test Data:****

- * Incorrect batch/lot number assigned to an item

****Test Steps:****

1. Manually attempt to update the incorrect batch/lot number of an item.
2. Verify that a notification is displayed to the user highlighting the discrepancy.
3. Attempt to use the item with the incorrect batch/lot number in a transaction.
4. Verify that a notification is sent, preventing the transaction due to the inconsistency.

****Postconditions:****

- * System displays notifications regarding incorrect batch/lot number discrepancies.

****Expected Result:**** The system alerts users about any inconsistencies in batch/lot number assignments, preventing potential errors.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Alerting Mechanism Testing

****Test Case Approach:**** Positive, Negative

Data - 162

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Serial Number Tracking

Feature description -

Users can track individual inventory items by serial numbers, recording unique identifiers for each item to facilitate traceability and warranty management. This feature is essential for industries such as electronics or equipment manufacturing where product serial numbers are used for warranty claims or product recalls.

Userstory title -

As a user, I want to track individual inventory items by serial numbers so that I can facilitate traceability and warranty management.

Acceptance criteria -

['Users can assign serial numbers to individual inventory items.', 'The system tracks inventory items by assigned serial numbers.', 'Users can view and search for inventory items by serial numbers.', 'The system supports generating reports on serial numbers for traceability.', 'Users receive notifications for any

discrepancies found during serial number tracking.']

Generated Test Cases:

Test Cases for Serial Number Tracking Feature

Here are 5 detailed test cases for the "Serial Number Tracking" feature within the Inventory Management System, adhering to the provided template:

****Test Case ID:**** TC_SN_001

****Test Case Title:**** Verify that serial numbers can be assigned to individual inventory items.

****Test Case Description:**** This test case verifies the ability to assign a unique serial number to each inventory item during the item creation or update process.

****Test Suite:**** Inventory Management

****Test Priority:**** High

****Preconditions:****

- * A new inventory item needs to be created.
- * Access to the inventory management application.

****Test Data:****

- * Valid product details (name, category, description, etc.)
- * A unique serial number string.

****Test Steps:****

1. Log in to the Inventory Management System.
2. Navigate to the "Inventory" module.
3. Click on "Add New Item" or select an existing item to edit.
4. Enter product details and then input the serial number in the designated field.
5. Save the item.
6. Verify that the entered serial number is displayed correctly in the item details.

****Postconditions:****

- * New item with assigned serial number is saved in the system.

****Expected Result:**** The system successfully assigns the entered serial number to the inventory item.

****Severity:**** Blocker

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_SN_002

****Test Case Title:**** Verify that the system tracks inventory items by assigned serial numbers.

****Test Case Description:**** This test case verifies the system's ability to correctly identify and track inventory items based on their assigned serial numbers.

****Test Suite:**** Inventory Management

****Test Priority:**** High

****Preconditions:****

- * An inventory item with a unique serial number has been added (as per TC_SN_001).

****Test Data:****

- * The serial number from TC_SN_001

****Test Steps:****

1. Log in to the Inventory Management System.
2. Navigate to the "Inventory" module.
3. Use the serial number search filter to locate the item created in TC_SN_001.
4. The search results should display the item with its corresponding details.
5. Select the item and verify its information, including the assigned serial number.

****Postconditions:****

- * The item is located and displayed based on the serial number.

****Expected Result:**** The system successfully identifies and displays the inventory item associated with the entered serial number.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_SN_003

****Test Case Title:**** Verify that users can view and search for inventory items by serial numbers.

****Test Case Description:**** This test case ensures users can easily access and retrieve specific inventory items through an efficient serial number search functionality.

****Test Suite:**** Inventory Management

****Test Priority:**** High

****Preconditions:****

- * Multiple inventory items with unique serial numbers have been added to the system. (refer to step 3 of TC_SN_002)

****Test Data:****

- * Existing serial numbers from added items.

****Test Steps:****

1. Log in to the Inventory Management System.
2. Navigate to the "Inventory" module.
3. Access the search function for inventory items.
4. Input a valid serial number from the existing inventory items.
5. Analyze the search results - it should display the related item with its full details.

****Postconditions:****

- * The system provides search results based on the entered serial number.

****Expected Result:**** The system accurately displays the inventory item details corresponding to the provided serial number.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_SN_004

****Test Case Title:**** Verify that the system supports generating reports on serial numbers for traceability.

****Test Case Description:**** This test case validates the capability to generate reports that list inventory items based on their serial numbers, aiding in traceability.

****Test Suite:**** Inventory Management

****Test Priority:**** Medium

****Preconditions:****

* Multiple inventory items with distinct serial numbers are available in the system.

****Test Data:****

* Date range for the report (optional)

* Specific product category for filtering (optional)

****Test Steps:****

1. Log in to the Inventory Management System.
2. Navigate to the "Reports" module.
3. Select the report template for serial number tracking.
4. Choose any optional filters (date range, product category).
5. Generate the report.

****Postconditions:****

* A downloadable report containing serial numbers and associated data is generated.

****Expected Result:**** The system generates a well-formatted report with a list of inventory items grouped by their serial numbers, along with relevant details like product name, category, and quantity.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_SN_005

****Test Case Title:**** Verify that users receive notifications for any discrepancies found during serial number tracking.

****Test Case Description:**** This test case checks the system's ability to alert users about inconsistencies or errors encountered while tracking serial numbers.

****Test Suite:**** Inventory Management

****Test Priority:**** High

****Preconditions:****

- * The system must be configured to send notifications for serial number discrepancies.

- * A valid email address or notification channel for the user is configured.

****Test Data:****

- * A valid serial number that has already been assigned to an item.
- * A duplicate serial number.

****Test Steps:****

1. Log in as a user with notification settings configured.
2. Attempt to add a new inventory item with a serial number that already exists in the system
3. Monitor the user's notification channel (email, in-app message, etc.)

****Postconditions:****

- * The system detects the serial number conflict.

****Expected Result:**** The system generates and sends a notification to the user, alerting them about the duplicate serial number attempt.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Negative

Data - 163

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Auditing

Feature description -

The system supports inventory auditing processes such as cycle counting, physical inventory counts, and reconciliation of inventory records. This feature helps users identify discrepancies between physical inventory counts and system records, investigate root causes of inventory discrepancies, and maintain inventory accuracy.

Userstory title -

As a user, I want to perform inventory audits so that I can identify and resolve discrepancies between physical inventory counts and system records.

Acceptance criteria -

['Users can perform cycle counts and physical inventory counts.', 'The system reconciles physical inventory counts with system records.', 'Users can generate audit reports for inventory discrepancies.', 'The system tracks and logs audit activities for accountability.', 'Users receive notifications for significant inventory discrepancies.']

Generated Test Cases:

Inventory Management System Test Cases - Inventory Auditing Feature

Here are 5 detailed test cases for the "Inventory Auditing" feature within the "Inventory Management System"

project:

****Test Case 1:**** Verify that users can perform a cycle count.

****Test Case Description:****

This test case verifies the functionality of performing a cycle count within the system. It will involve selecting items for a cycle count, entering the physical counts, and confirming the recorded changes.

****Test Suite:**** Inventory Auditing

****Test Priority:**** High

****Preconditions:****

- * An active user with administrative or inventory manager privileges is logged in.
- * The system has stock items with defined quantities.

****Test Data:****

- * Selection of items for the cycle count.
- * Different physical counts (higher, lower, same as recorded)

****Test Steps:****

1. Navigate to the "Inventory Auditing" section of the system.
2. Select "Cycle Count" from the available options.
3. Choose the items to include in the cycle count.

4. Manually enter the physical count for each selected item.
5. Review the entered counts and confirm the cycle count process.

****Postconditions:****

- * The recorded inventory quantities for the selected items should be updated based on the counted values.
- * A record of the performed cycle count transaction should be logged in the system.

****Expected Result:**** The system successfully records the cycle count data, updates the inventory quantities, and generates a log entry for the audit activity.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case 2:**** Verify that users can perform a Physical Inventory Count.

****Test Case Description:****

This test case verifies the functionality of performing a physical inventory count. It will focus on accurately counting all items within the defined stock area and comparing the results with the system records.

****Test Suite:**** Inventory Auditing

****Test Priority:** High**

****Preconditions:****

- * An active user with administrative or inventory manager privileges is logged in.
- * The system has a defined stock area with multiple items.

****Test Data:****

- * List of all items within the designated stock area (Including quantities).
- * Physical count data for each item.

****Test Steps:****

1. Navigate to the "Inventory Auditing" section of the system.
2. Select "Physical Inventory Count."
3. Enter the details of the designated stock area for counting.
4. Physically count each item within the allocated area, manually recording the count.
5. Compare the recorded physical counts with the system records, identifying discrepancies.

****Postconditions:****

- * The recorded physical inventory count data should be compared with system records, highlighting any discrepancies.
- * A report summarizing the physical inventory count results and discrepancies should be generated.

****Expected Result:**** The system accurately captures the physical inventory count data, identifies

discrepancies, and generates a comprehensive audit report.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case 3:** Verify that the system reconciles physical inventory counts with system records.**

****Test Case Description:** This test case examines the system's ability to reconcile the results of physical inventory counts with the existing inventory records, highlighting any differences and suggesting potential causes.**

****Test Suite:** Inventory Auditing**

****Test Priority:** High**

****Preconditions:****

* The system has been used to manage inventory and stock movements.

* A Physical Inventory Count has been successfully performed (as in Test Case 2).

****Test Data:****

* Data obtained from the Physical Inventory Count.

* System records for the same inventory items.

****Test Steps:****

1. Access the audit report generated after the Physical Inventory Count.
2. Review the discrepancies highlighted between the physical counts and system records.
3. Analyze the system's suggestions for potential reasons behind the discrepancies.

****Postconditions:****

- * The system clearly presents the reconciled inventory data with explanations for any discrepancies.
- * Options for investigating and addressing the discrepancies should be available.

****Expected Result:**** The system accurately reconciles the Physical Inventory Count data with existing records, providing transparent insights into inventory discrepancies.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case 4:**** Verify that users can generate audit reports for inventory discrepancies.

****Test Case Description:****

This test case verifies the functionality of generating detailed audit reports that clearly display inventory

discrepancies identified during audits.

****Test Suite:**** Inventory Auditing

****Test Priority:**** High

****Preconditions:****

* A physical inventory count has been performed and discrepancies are identified.

****Test Data:****

* Access

****Test Steps:****

1. Navigate to the "Inventory Auditing" section of the system.
2. Select the "Generate Audit Report" option.
3. Choose the specific inventory audit (e.g., cycle count, physical count) to generate a report for.
4. Specify the desired report format (e.g., PDF, CSV).

****Postconditions:****

* A detailed audit report should be generated, listing all discrepancies identified in the selected audit.

****Expected Result:**** The system generates a comprehensive report detailing the discrepancies found during the audit, including item details, quantity differences, and potential causes.

****Severity:** Major**

****Priority:** High**

****Type of Testing:** Functional Testing,Reporting**

****Test Case Approach:** Positive**

****Test Case 5:** Verify that the system tracks and logs audit activities for accountability.**

****Test Case Description:** This test case verifies that the system logs all inventory audit activities, ensuring a complete audit trail for accountability.**

****Test Suite:** Inventory Auditing**

****Test Priority:** Medium**

****Preconditions:****

- * A user logged in with sufficient privileges is conducting inventory audit activities.
- * The system has not been restarted since the last audit activity.

****Test Data:****

- * Data of audit activities like cycle counts, physical counts, and report generation.

****Test Steps:****

1. Perform a cycle count within the system.
2. Access the audit log section of the "Inventory Auditing" section.
3. Review the recorded audit activities, including date, time, user performing the activity, and specific actions taken.

****Postconditions:****

* The audit log should contain a record of the performed cycle count, including user details and timestamps.

****Expected Result:**** The system reliably tracks and logs all inventory audit activities, providing a comprehensive audit trail for traceability and accountability.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** System Testing, Security Testing

****Test Case Approach:**** Positive

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Analytics and Reporting

Feature description -

Users can generate custom reports and dashboards to analyze inventory data, track key performance indicators (KPIs), and gain insights into inventory trends and patterns. This feature provides users with actionable intelligence to make informed decisions and optimize inventory management strategies.

Userstory title -

As a user, I want to generate custom reports and dashboards so that I can analyze inventory data and gain insights into inventory trends and patterns.

Acceptance criteria -

['Users can create custom reports based on selected data fields and criteria.', 'The system supports generating dashboards to visualize inventory KPIs.', 'Users can schedule automated report generation and distribution.', 'Reports and dashboards provide actionable insights into inventory trends.', 'Users receive notifications for critical inventory metrics and alerts.']

Generated Test Cases:

Inventory Management System - Test Cases for Inventory Analytics and Reporting

****User Story:**** As a user, I want to generate custom reports and dashboards so that I can analyze inventory data and gain insights into inventory trends and patterns.

Test Case 1

****Test Case ID:**** INVENTORY-REPORT-001

****Test Case Title:**** Verify that users can create custom reports based on selected data fields and criteria.

****Test Case Description:**** This test case verifies the user's ability to generate customized reports by selecting specific data fields and applying filters based on predefined criteria.

****Test Suite:**** Inventory Analytics

****Test Priority:**** High

****Preconditions:****

- * User is logged into the Inventory Management System with appropriate permissions.
- * Sample Inventory data is available in the system.

****Test Data:****

- * List of available data fields for report generation (e.g., product name, quantity, location, purchase date, supplier).
- * Example filter criteria (e.g., product category, date range, supplier, location).

****Test Steps:****

1. Navigate to the "Inventory Analytics" section.
2. Click the "Create Custom Report" button.
3. Select relevant data fields from the list for inclusion in the report.
4. Apply filter criteria based on desired parameters.

5. Preview the generated report to ensure accurate data representation.

6. Download or save the generated report in a preferred format.

****Postconditions:****

* Custom report is generated and saved successfully.

* The report displays the selected data fields and filtered results accurately.

****Expected Result:**** The system allows users to create custom reports based on their specific requirements and data preferences. The report reflects the chosen data fields, applied filters, and accurately represents the relevant inventory information.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 2

****Test Case ID:**** INVENTORY-DASHBOARD-001

****Test Case Title:**** Verify that the system supports generating dashboards to visualize inventory KPIs.

****Test Case Description:**** This test case checks if the system can create dashboards that display key performance indicators (KPIs) relevant to inventory management, ensuring they are visually clear and informative.

This continues with more detailed test cases following the same template

Let me know if you'd like me to elaborate on any of these test cases or generate more!

Data - 165

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Analytics and Reporting

Feature description -

Users can generate custom reports and dashboards to analyze inventory data, track key performance indicators (KPIs), and gain insights into inventory trends and patterns. This feature provides users with actionable intelligence to make informed decisions and optimize inventory management strategies.

Userstory title -

As a user, I want to visualize inventory KPIs on a dashboard so that I can quickly understand inventory performance.

Acceptance criteria -

['Users can add and remove KPIs from the dashboard.', 'The system supports real-time updates to dashboard

KPIs.', 'Users can customize the layout and appearance of the dashboard.', 'KPIs on the dashboard provide accurate and up-to-date information.', 'Users can export dashboard data for further analysis.']

Generated Test Cases:

Inventory Management System - Test Cases for Inventory Analytics & Reporting

****User Story:**** As a user, I want to visualize inventory KPIs on a dashboard so that I can quickly understand inventory performance.

****Test Case 1****

*** **Test Case ID:**** TC-INY-RDSH-001

*** **Test Case Title:**** Verify that users can add pre-defined KPIs to the dashboard.

*** **Test Case Description:**** This test case verifies the ability of users to add standard pre-defined KPIs to the inventory dashboard. This includes confirming the addition of KPIs like average inventory, stock turnover ratio, etc.

*** **Test Suite:**** Inventory Analytics & Reporting

*** **Test Priority:**** High

*** **Preconditions:****

- * User is logged into the system with appropriate permissions.

- * The inventory dashboard is accessible.

*** **Test Data:**** Pre-defined KPIs list (average inventory, stock turnover ratio, etc).

*** **Test Steps:****

1. Navigate to the inventory dashboard.
2. Locate the "Add KPI" button/section.
3. Select "Average Inventory" from the list of pre-defined KPIs.
4. Confirm that "Average Inventory" KPI is added to the dashboard.

5. Repeat steps 3-4 for other pre-defined KPIs (e.g., Stock Turnover Ratio).

* **Postconditions:**

* All selected pre-defined KPIs are displayed on the dashboard.

* **Expected Result:** The system successfully adds the selected pre-defined KPIs to the dashboard and displays them correctly.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** System Testing, Functional Testing

* **Test Case Approach:** Positive

Test Case 2

* **Test Case ID:** TC-INY-RDSH-002

* **Test Case Title:** Verify that users can customize the layout of the dashboard.

* **Test Case Description:** This test case verifies the user's ability to rearrange and resize the KPI cards on the dashboard to suit their preference.

* **Test Suite:** Inventory Analytics & Reporting

* **Test Priority:** High

* **Preconditions:**

* User is logged into the system with appropriate permissions.

* The inventory dashboard is accessible with at least two KPIs added.

* **Test Data:** None.

* **Test Steps:**

1. Navigate to the inventory dashboard.
2. Hover over a KPI card and click the drag handle.
3. Drag the KPI card to a new position.
4. Resize the KPI card by hovering over the corner and dragging the resize handle.
5. Verify that the card moves and resizes as expected.

* **Postconditions:**

- * KPI card positions are saved.

- * KPI card sizes are saved.

* **Expected Result:** The system allows users to freely rearrange and resize KPI cards on the dashboard.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** System Testing, Functional Testing, User Acceptance Testing (UAT)

* **Test Case Approach:** Positive

****Test Case 3****

* **Test Case ID:** TC-INY-RDSH-003

* **Test Case Title:** Verify that dashboard KPIs receive real-time updates.

* **Test Case Description:** This test case verifies that the KPIs on the dashboard reflect real-time inventory changes.

* **Test Suite:** Inventory Analytics & Reporting

* **Test Priority:** High

* **Preconditions:**

- * User is logged into the system with appropriate permissions.

- * The inventory dashboard is accessible with at least one KPI representing inventory level (e.g., Current Stock).

* **Test Data:** Pre-defined inventory data with values.

* **Test Steps:**

1. Navigate to the inventory dashboard.
2. Verify the initial value displayed for the chosen inventory level KPI.
3. Manually adjust the inventory level for a particular item in the system.
4. Observe the dashboard and confirm that the KPI reflecting the inventory level updates accordingly in

real-time.

* **Postconditions:**

- * Inventory level is updated in the system.

* **Expected Result:** The KPI on the dashboard accurately reflects the updated inventory level in real-time.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** System Testing, Functional Testing

* **Test Case Approach:** Positive

****Test Case 4****

* **Test Case ID:** TC-INY-RDSH-004

* **Test Case Title:** Verify that users can export dashboard data.

* **Test Case Description:** This test case verifies the functionality of exporting the dashboard data in a chosen format (e.g., CSV, Excel).

* **Test Suite:** Inventory Analytics & Reporting

* **Test Priority:** Medium

* **Preconditions:**

- * User is logged into the system with appropriate permissions.

- * The inventory dashboard is accessible with at least one KPI added.

* **Test Data:** Dashboard with displayed KPIs.

* **Test Steps:**

1. Navigate to the inventory dashboard.
2. Locate the "Export Data" button or option.
3. Select the desired export format (e.g., CSV, Excel).
4. Save the exported file to a known location.
5. Open the exported file and verify the data displays as expected.

* **Postconditions:**

- * The exported data file is saved in the specified location.

* **Expected Result:** The system successfully exports the dashboard data into the chosen format. The exported data accurately reflects the information displayed on the dashboard.

* **Severity:** Minor

* **Priority:** Medium

* **Type of Testing:** System Testing, Functional Testing

* **Test Case Approach:** Positive

Test Case 5

* **Test Case ID:** TC-INY-RDSH-005

* **Test Case Title:** Verify that users can remove KPIs from the dashboard.

* **Test Case Description:** This test case verifies the ability of users to remove added KPIs from the inventory dashboard.

* **Test Suite:** Inventory Analytics & Reporting

* **Test Priority:** High

* **Preconditions:**

- * User is logged into the system with appropriate permissions.

- * The inventory dashboard is accessible with at least one KPI added.

* **Test Data:** Dashboard with added KPIs.

* **Test Steps:**

1. Navigate to the inventory dashboard.
2. Locate the KPI that needs to be removed (e.g., Average Inventory).
3. Click the "Remove KPI" button or equivalent.
4. Confirm that the selected KPI is removed from the dashboard.

* **Postconditions:**

- * The removed KPI is no longer displayed on the dashboard.
- * **Expected Result:** The system successfully removes the selected KPI from the dashboard.
- * **Severity:** Minor
- * **Priority:** Medium
- * **Type of Testing:** System Testing, Functional Testing
- * **Test Case Approach:** Positive

Data - 166

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Analytics and Reporting

Feature description -

Users can generate custom reports and dashboards to analyze inventory data, track key performance indicators (KPIs), and gain insights into inventory trends and patterns. This feature provides users with actionable intelligence to make informed decisions and optimize inventory management strategies.

Userstory title -

As a user, I want to schedule automated inventory reports so that I can receive regular updates on inventory status.

Acceptance criteria -

['Users can set up automated report generation schedules.', 'The system supports customization of report content and format.', 'Automated reports are generated and distributed according to the schedule.', 'Users receive notifications when reports are generated.', 'Reports provide accurate and relevant inventory data.']

Generated Test Cases:

Inventory Management System - Test Cases for Automated Inventory Reporting

****User Story:**** As a user, I want to schedule automated inventory reports so that I can receive regular updates on inventory status.

****Test Case ID:**** IMS-ANA-001

****Test Case Title:**** Verify that users can set up automated report generation schedules.

****Test Case Description:**** This test case verifies the user's ability to configure automated report generation schedules for inventory reports.

****Test Suite:**** Inventory Analytics and Reporting

****Test Priority:**** High

****Preconditions:****

* User is logged in with administrator privileges.

* Inventory data is present in the system.

* Report templates are available.

* System has access to scheduled task execution facilities (e.g., cron jobs).

****Test Data:**** Report template ID, desired report frequency (e.g., daily, weekly, monthly), start date for scheduling

****Test Steps:****

1. Navigate to the "Reports" section.
2. Select the "Schedule Report" option.
3. Choose a predefined report template or create a custom template.
4. Define the desired frequency of report generation (e.g., daily, weekly, monthly).
5. Select the start date for the scheduled report.
6. Save the scheduled report configuration.

****Postconditions:****

- * A scheduled report is added to the system's report scheduler.
- * The user receives a confirmation message indicating successful schedule creation.
- * The scheduled report's details are displayed in the "Scheduled Reports" list.

****Expected Result:**** The system successfully creates a scheduled report based on user-defined criteria.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, System Integration Testing

****Test Case ID:**** IMS-ANA-002

****Test Case Title:**** Verify that the system supports customization of report content and format.

****Test Case Description:**** This test case verifies the user's ability to customize the content and format of automated inventory reports.

****Test Suite:**** Inventory Analytics and Reporting

****Test Priority:**** High

****Preconditions:****

- * User is logged in with administrator privileges.
- * Inventory data is present in the system.
- * Report templates are available.

****Test Data:**** Existing report template, customization parameters (e.g., specific inventory items, date range, format options)

****Test Steps:****

1. Navigate to the "Reports" section.
2. Select the "Customize Report" option for an existing template.
3. Modify the report parameters:
 - * Select specific inventory items to include.
 - * Define the reporting date range.
 - * Choose desired format options (e.g., CSV, Excel, PDF).
4. Save the customized report.
5. Generate a sample report using the modified template.

****Postconditions:****

- * The report reflects the chosen customizations.
- * System displays the customized report in the selected format.

****Expected Result:**** The system successfully applies the user-defined customizations to the generated report.

****Severity:** Major**

****Priority:** High**

****Type of Testing:** Functional Testing, Positive Testing, Data-Driven Testing**

****Test Case ID:** IMS-ANA-003**

****Test Case Title:** Verify that automated reports are generated and distributed according to the schedule.**

****Test Case Description:** This test case verifies that the system generates reports accurately and distributes them according to the set schedule.**

****Test Suite:** Inventory Analytics and Reporting**

****Test Priority:** High**

****Preconditions:****

- * The system has a working scheduled task execution mechanism.
- * A scheduled report has been set up as described in Test Case ID: IMS-ANA-001.

****Test Data:** Scheduled report parameters (frequency, start date)**

****Test Steps:****

1. Allow sufficient time for the first scheduled report generation cycle.
2. Monitor the system's scheduled task log for successful report execution.
3. Verify that the generated report is delivered to the designated recipients.

****Postconditions:****

- * The scheduled report log entry indicates successful execution.
- * Relevant stakeholders receive the generated report via the chosen delivery method (e.g., email, system)

notifications).

****Expected Result:**** The system generates and distributes the automated report according to the predefined schedule.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** System Integration Testing, Acceptance Testing

****Test Case ID:**** IMS-ANA-004

****Test Case Title:**** Verify that users receive notifications when reports are generated.

****Test Case Description:**** This test case verifies the delivery and accuracy of notifications regarding automated report generation.

****Test Suite:**** Inventory Analytics and Reporting

****Test Priority:**** Medium

****Preconditions:****

* A scheduled report has been set up as described in Test Case ID: IMS-ANA-001.

* Notification preferences are configured for the user.

****Test Data:**** User email address, notification preferences (email, SMS, in-app notifications)

****Test Steps:****

1. Allow sufficient time for the scheduled report generation cycle.
2. Monitor the user's designated notification channel for a message about the report generation.
3. Verify the notification content includes relevant details like report name, date, and time.

****Postconditions:****

- * The user receives a notification confirming the automated report generation.

****Expected Result:**** The system delivers accurate and timely notifications regarding automated report generation to the configured channels.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, System Integration Testing

****Test Case ID:**** IMS-ANA-005

****Test Case Title:**** Verify that reports provide accurate and relevant inventory data.

****Test Case Description:**** This test case verifies the accuracy and relevance of data presented in the automated inventory reports.

****Test Suite:**** Inventory Analytics and Reporting

****Test Priority:**** High

****Preconditions:****

- * Inventory data is accurately recorded and updated in the system.
- * A scheduled report designed to display specific inventory metrics is set up.

****Test Data:**** Inventory data with known quantities, dates, locations, and supplier information.

****Test Steps:****

1. Generate the scheduled report.
2. Compare the report data with the corresponding inventory records in the system.

3. Verify the data accuracy for metrics like:

- * Total inventory levels
- * Stock levels for individual items
- * Inventory turnover rates
- * Stockouts and overstocking occurrences

****Postconditions:****

- * The report is generated without errors.

****Expected Result:**** The report displays accurate and relevant inventory data reflecting the current state of the inventory.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Data Validation Testing

Data - 167

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and

supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Analytics and Reporting

Feature description -

Users can generate custom reports and dashboards to analyze inventory data, track key performance indicators (KPIs), and gain insights into inventory trends and patterns. This feature provides users with actionable intelligence to make informed decisions and optimize inventory management strategies.

Userstory title -

As a user, I want to filter inventory reports by date range so that I can analyze inventory data for specific periods.

Acceptance criteria -

['Users can select a date range for filtering inventory reports.', 'The system generates reports based on the selected date range.', 'Filtered reports provide accurate and relevant inventory data for the specified period.', 'Users can save and export filtered reports.', 'The system displays an error message if the selected date range is invalid.']

Generated Test Cases:

Test Cases for Inventory Analytics and Reporting - Date Range Filtering

****Project Context:**** Inventory Management System

****Feature:**** Inventory Analytics and Reporting

****User Story:**** As a user, I want to filter inventory reports by date range so that I can analyze inventory data for specific periods.

****Acceptance Criteria:****

- * Users can select a date range for filtering inventory reports.
- * The system generates reports based on the selected date range.
- * Filtered reports provide accurate and relevant inventory data for the specified period.
- * Users can save and export filtered reports.
- * The system displays an error message if the selected date range is invalid.

****Test Cases:****

| Test Case ID | Test Case Title | Test Case Description | Test Suite | Test Priority | Preconditions | Test Data | Test Steps | Postconditions | Expected Result | Severity | Priority | Type of Testing | Test Case Approach |
|--------------|--|--|---------------------|---------------|-----------------------------|---|---|--|--|----------|----------|--------------------|--------------------|
| | | | | | | | | | | | | | |
| TC_001 | Verify that date range selection is functional | This test case verifies the user can select a valid date range for filtering inventory reports. | Inventory Analytics | High | User logged into the system | Valid start and end dates (e.g., 2023-01-01 to 2023-01-31) | <ol style="list-style-type: none">Navigate to the Inventory Reports section.Select the "Date Range" filter option.Enter the start date and end date.Click "Apply" to generate the filtered report. | The report generation process completes successfully. | The report displays inventory data for the specified date range. | Major | High | Functional Testing | Positive |
| TC_002 | Verify that invalid date range triggers an error message | This test case verifies the system displays an error message when an invalid date range is selected. | Inventory Analytics | High | User logged into the system | Invalid start date (e.g., 2023-02-30) and end date (e.g., 2023-01-15) | <ol style="list-style-type: none">Navigate to the Inventory Reports section.Select the "Date Range" filter option.Enter the invalid start date and end date.Click "Apply" to generate the filtered report. | An error message displays with a clear indication of the invalid date range. | | Critical | High | Functional Testing | Negative |

| TC_003 | Verify that past date range filters inventory data correctly | This test case verifies the system accurately filters inventory data for a past date range. | Inventory Analytics | Medium | User logged into the system | Start date and end date in the past (e.g., 2022-12-01 to 2022-12-31) | Navigate to the Inventory Reports section.Select the "Date Range" filter option.Enter the past date start and end date.Click "Apply" to generate the filtered report. | | The report displays accurate inventory data for the selected past date range. | Major | Medium | Functional Testing | Positive |

| TC_004 | Verify that future date range filters inventory data correctly | This test case verifies the system accurately filters inventory data for a future date range. | Inventory Analytics | Medium | User logged into the system | Start date and end date in the future (e.g., 2024-01-01 to 2024-01-31) | Navigate to the Inventory Reports section.Select the "Date Range" filter option.Enter future date start and end date.Click "Apply" to generate the filtered report. | | The system displays a message indicating that data for future dates is not yet available. | Major | Medium | Functional Testing | Negative |

| TC_005 | Verify that date range selection from different locations works | This test case verifies if filtering dates works the same for reports accessed through various feature sections. | Inventory Analytics | Medium | User logged into the system | Valid start and end date | Access the Inventory Reports section.Select "Date Range" filter and input a valid date range.Generate the report.Go to a different section that displays reports (e.g., Sales Overview) and apply the same date range filter.Compare the generated reports for consistency in data. | | Both reports display consistent inventory data for the defined date range. | Minor | Low | Functional Testing | Positive |

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Analytics and Reporting

Feature description -

Users can generate custom reports and dashboards to analyze inventory data, track key performance indicators (KPIs), and gain insights into inventory trends and patterns. This feature provides users with actionable intelligence to make informed decisions and optimize inventory management strategies.

Userstory title -

As a user, I want to generate inventory reports on demand so that I can obtain up-to-date information whenever needed.

Acceptance criteria -

['Users can generate inventory reports on demand.', 'Reports provide accurate and up-to-date inventory data.', 'Users can customize the content and format of on-demand reports.', 'The system supports exporting on-demand reports in various formats.', 'Users receive notifications when on-demand reports are generated.']

Generated Test Cases:

Test Cases for Inventory Analytics and Reporting Feature

****User Story:**** As a user, I want to generate inventory reports on demand so that I can obtain up-to-date information whenever needed.

****Test Case ID:** TC_INVENTORY_REPORT_01**

****Test Case Title:**** Verify that users can generate inventory reports on demand with specific product details.

****Test Case Description:**** This test case verifies that users can successfully generate an on-demand inventory report for a specific product, including relevant details like quantity, location, and supplier.

****Test Suite:**** Inventory Analytics and Reporting

****Test Priority:**** High

****Preconditions:****

- * A sample product with existing inventory data is available in the system.

- * The user has the appropriate permissions to generate inventory reports.

****Test Data:****

- * Product ID: [Sample Product ID]

****Test Steps:****

1. Log in to the Inventory Management System as a user with reporting permissions.
2. Navigate to the "Inventory Analytics" section.
3. Select "Generate Report on Demand."
4. In the "Product" filter, enter the selected product ID ([Sample Product ID]).
5. Click "Generate Report."

****Postconditions:****

- * A report displaying the inventory data for the selected product is generated.

- * The report includes details like quantity, location, supplier information, and other relevant product attributes.

****Expected Result:**** The system successfully generates an on-demand inventory report for the specified product with accurate and up-to-date information.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_INVENTORY_REPORT_02

****Test Case Title:**** Verify that users can customize the content and format of on-demand reports.

****Test Case Description:**** This test case verifies the user's ability to customize the content and format of an on-demand inventory report.

****Test Suite:**** Inventory Analytics and Reporting

****Test Priority:**** Medium

****Preconditions:****

* A sample product with existing inventory data is available in the system.

* The user has the appropriate permissions to generate and customize inventory reports.

****Test Data:****

* Product IDs: [Sample Product IDs of different categories]

****Test Steps:****

1. Log in to the Inventory Management System as a user with reporting permissions.
2. Navigate to the "Inventory Analytics" section.
3. Select "Generate Report on Demand."
4. Choose the following report customization options:
 - * Select a specific date range for the report data.
 - * Include/exclude specific product categories in the report.
 - * Choose a summary or detailed reporting format.
 - * Apply sorting options based on relevant inventory metrics.
5. Click "Generate Report."

****Postconditions:****

- * A customized report reflecting the selected options is generated.

****Expected Result:**** The system successfully generates a customized inventory report based on the user's preferences for date range, product categories, format, and sorting.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:** TC_INVENTORY_REPORT_03**

****Test Case Title:** Verify that the system supports exporting on-demand reports in various formats.**

****Test Case Description:** This test case verifies the system's ability to export generated on-demand inventory reports in different file formats (e.g., CSV, PDF, Excel).**

****Test Suite:** Inventory Analytics and Reporting**

****Test Priority:** Medium**

****Preconditions:****

- * A sample inventory report is generated.
- * The user has the appropriate permissions.

****Test Data:****

- * N/A

****Test Steps:****

1. Log in to the Inventory Management System as a user with reporting permissions.
2. Navigate to the "Inventory Analytics" section.
3. Generate an on-demand inventory report for any product or selection.
4. Locate and click the "Export" button.
5. Choose a desired file format (e.g., CSV, PDF, Excel) from the available options.

****Postconditions:****

* The report is downloaded to the user's device in the selected file format.

****Expected Result:**** The system successfully exports the generated inventory report in the chosen file format without data loss or corruption.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Please continue to build out the rest of the test cases (at least 2 more) based on the remaining acceptance criteria. Remember to test for both positive and negative scenarios where applicable.

Data - 169

Project name -

Inventory Management System

Project description -

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Feature name -

Inventory Forecasting

Feature description -

Users can generate inventory forecasts and demand projections based on historical sales data, seasonal trends, and market analysis. This feature helps users anticipate future inventory requirements, optimize inventory levels, and plan inventory investments more effectively to meet customer demand.

Userstory title -

As a user, I want to generate inventory forecasts based on historical sales data so that I can anticipate future inventory needs.

Acceptance criteria -

['Users can select historical sales data for generating inventory forecasts.', 'The system uses historical sales data to generate accurate forecasts.', 'Forecasts provide insights into future inventory requirements.', 'Users can customize the forecast parameters.', 'Generated forecasts are saved and accessible for future reference.']

Generated Test Cases:

Here are 5 test cases for the "Inventory Forecasting" user story, following the provided template:

****Test Case 1****

*** **Test Case ID:** ICS_FCT_001**

*** **Test Case Title:** Verify that users can select historical sales data for generating inventory forecasts**

*** **Test Case Description:** This test case verifies the system's ability to allow users to choose specific**

historical sales data periods for forecasting purposes.

* **Test Suite:** Inventory Forecasting

* **Test Priority:** High

* **Preconditions:**

- * The user is logged in with appropriate permissions.

- * Sample historical sales data is available in the system.

* **Test Data:** A range of historical sales data (e.g., last month, last quarter, last year).

* **Test Steps:**

1. Access the Inventory Forecasting module.

2. Input a start date and end date to define the historical sales data period.

3. Observe if the system displays and allows selection of the chosen sales data range for forecasting.

* **Postconditions:**

- * Data range is saved for forecasting.

* **Expected Result:** The system successfully displays the selected historical sales data and allows the user to proceed with generating the forecast.

****Test Case 2****

* **Test Case ID:** ICS_FCT_002

* **Test Case Title:** Verify that the system uses historical sales data to generate accurate forecasts

* **Test Case Description:** This test case assesses the accuracy of the generated forecasts by comparing them to known future sales data (if available) or industry benchmarks.

* **Test Suite:** Inventory Forecasting

* **Test Priority:** High

* **Preconditions:**

- * Historical sales data is available and accurately reflects past sales patterns.

- * Known future sales data (if available) or industry benchmarks for comparison.

* **Test Data:** Past sales data and relevant industry benchmarks.

* **Test Steps:**

1. Select historical sales data for a specific period.
2. Generate an inventory forecast based on the selected data.
3. Compare the generated forecast to the known future sales data or benchmark.

* **Postconditions:**

- * Forecast results are recorded.

* **Expected Result:** The system generates a forecast that is within an acceptable range of accuracy compared to known future sales data or industry benchmarks.

Test Case 3

* **Test Case ID:** ICS_FCT_003

* **Test Case Title:** Verify that forecasts provide insights into future inventory requirements

* **Test Case Description:** This test case ensures that the generated forecasts offer meaningful information about anticipated inventory needs.

* **Test Suite:** Inventory Forecasting

* **Test Priority:** Medium

* **Preconditions:**

- * Historical sales data is uploaded.
- * Forecast is generated successfully.

* **Test Data:** Historical sales data and generated forecast.

* **Test Steps:**

1. Generate an inventory forecast.
2. Review the forecast report for insights such as projected demand, potential stockouts, and optimal order quantities.

* **Postconditions:**

- * User understands the future inventory requirements based on the forecast report.

- * **Expected Result:** The forecast report clearly presents insights into future inventory requirements, aiding in informed decision-making.

Test Case 4

- * **Test Case ID:** ICS_FCT_004

- * **Test Case Title:** Verify that users can customize the forecast parameters

- * **Test Case Description:** This test case checks if users can adjust forecast parameters such as forecasting horizon, seasonality factors, and demand variability to create more tailored predictions.

- * **Test Suite:** Inventory Forecasting

- * **Test Priority:** Medium

- * **Preconditions:**

- * User is logged in with appropriate permissions.

- * **Test Data:** Different forecast parameter values (e.g., varying horizons, seasonality adjustments).

- * **Test Steps:**

1. Access the Inventory Forecasting module.
2. Modify the forecast parameters (horizon, seasonality, etc.)
3. Generate a forecast with the customized parameters.
4. Compare the customized forecast to the default forecast.

- * **Postconditions:**

- * Customized forecast parameters were saved.

- * **Expected Result:** The system allows users to modify forecast parameters and produces distinct forecasts based on the adjusted settings.

Test Case 5

* **Test Case ID:** ICS_FCT_005

* **Test Case Title:** Verify that generated forecasts are saved and accessible for future reference.

* **Test Case Description:** This test case ensures that created forecasts are persisted in the system and can be retrieved for later use.

* **Test Suite:** Inventory Forecasting

* **Test Priority:** Medium

* **Preconditions:**

- * User generates an inventory forecast.

* **Test Data:** Generated forecasts.

* **Test Steps:**

1. Generate an inventory forecast.
2. Log out of the system.
3. Log back into the system.
4. Access the Inventory Forecasting module.
5. Retrieve the previously generated forecast.

* **Postconditions:**

- * Generated forecast is accessible.

* **Expected Result:** The previously generated forecast is readily available for viewing and analysis.

****Important Notes:****

* The test cases described above provide a starting point. You should expand and refine these test cases based on the specific features and functionalities of your Inventory Management System.

- * Remember to consider edge cases, negative scenarios, and data validation rules in your test cases to ensure comprehensive coverage.
- * You should prioritize test cases based on their severity and impact on the system functionality.

Data - 170

Project name -

Inventory Management System

Project description -

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Feature name -

Inventory Forecasting

Feature description -

Users can generate inventory forecasts and demand projections based on historical sales data, seasonal trends, and market analysis. This feature helps users anticipate future inventory requirements, optimize inventory levels, and plan inventory investments more effectively to meet customer demand.

Userstory title -

As a user, I want to include seasonal trends in inventory forecasts so that I can adjust inventory levels accordingly.

Acceptance criteria -

['Users can include seasonal trends in inventory forecasts.', 'The system uses seasonal trends to generate accurate forecasts.', 'Forecasts provide insights into inventory adjustments based on seasonal trends.', 'Users can customize the seasonal trend parameters.', 'Generated forecasts reflect seasonal trends accurately.']

Generated Test Cases:

Inventory Management System: Inventory Forecasting Test Cases

****User Story:**** As a user, I want to include seasonal trends in inventory forecasts so that I can adjust inventory levels accordingly.

Test Case 1

****Test Case ID:**** TC_INV_FORE_001

****Test Case Title:**** Verify that seasonal trends can be included in inventory forecasts.

****Test Case Description:**** This test case verifies the user's ability to enable and configure seasonal trend factors in the inventory forecasting module. It will ensure the system allows users to specify the seasonality parameters and apply them to generate forecasts.

****Test Suite:**** Inventory Forecasting

****Test Priority:**** High

****Preconditions:****

* Successfully logged in as a user with appropriate permissions.

* Inventory data for at least one product with seasonal trends is available in the system.

****Test Data:****

* Sample product data with historical sales exhibiting clear seasonal patterns.

* Seasonality parameters (e.g., season length, peak/trough values).

****Test Steps:****

1. Navigate to the Inventory Forecasting module.
2. Select the desired product for forecasting.
3. Enable the "Include Seasonal Trends" option.
4. Configure the seasonality parameters according to the product's historical data.
5. Run the forecast generation process.
6. Verify that the generated forecast incorporates the specified seasonal trend parameters.

****Test Case Postconditions:****

- * Forecast settings are saved for the selected product.
- * Forecast data reflects the inclusion of seasonal trends.

****Expected Result:**** The system should allow users to include seasonal trends in inventory forecasts based on configured parameters.

****Severity:**** Critical

****Test Approach:**** Positive

Test Case 2

****Test Case ID:**** TC_INV_FORE_002

****Test Case Title:**** Verify that the system uses seasonal trends to generate accurate forecasts.

****Test Case Description:**** This test case evaluates the system's accuracy in generating forecasts by comparing them with actual historical sales data adjusted for seasonal variations. It verifies that the system effectively captures and utilizes seasonal trends to predict future demand.

****Test Suite:**** Inventory Forecasting

****Test Priority:**** High

****Preconditions:****

- * Successfully logged in as a user with appropriate permissions.
- * Inventory data with multiple historical periods and clear seasonal patterns is available.

****Test Data:****

- * Actual sales data for the selected product, spanning multiple years and seasons.
- * Seasonality parameters determined based on historical data analysis.

****Test Steps:****

1. Configure the system's seasonal trend parameters based on historical data analysis.
2. Generate a forecast for a future period that includes one or more seasons.
3. Compare the forecasted values with the actual historical sales data for corresponding seasons in previous years.
4. Calculate the percentage error between the forecasted and actual sales.

****Test Case Postconditions:****

- * Forecast data for the selected period is generated and saved.
- * Historical sales data for comparison purposes is readily accessible.

****Expected Result:****

The system-generated forecast should accurately reflect the seasonal trends observed in the historical data, with a low percentage error compared to actual sales figures for similar seasons in previous years.

****Severity:** Critical**

****Test Approach:** Positive & Comparative**

****Test Case ID:** TC_INV_FORE_003**

****Test Case Title:**** Verify that forecasts provide insights into inventory adjustments based on seasonal trends.

****Test Case Description:**** This test case ensures that the generated forecasts present actionable insights to users regarding inventory adjustments needed to account for seasonal fluctuations. It will verify the system displays clear recommendations or alerts based on forecasted demand peaks and troughs.

****Test Suite:**** Inventory Forecasting

****Test Priority:**** High

****Preconditions:****

- * Successfully logged in as a user with appropriate permissions.

- * Inventory data with clear seasonal trends is available.

- * Seasonality parameters are correctly configured.

****Test Data:****

- * Forecasted sales data covering periods with predicted seasonal demand peaks and troughs.

- * User-defined stock levels for the selected product.

****Test Steps:****

1. Generate a forecast for a future period that encompasses predicted seasonal demand variations.
2. Analyze the generated forecast report for recommendations regarding inventory adjustments.
3. Compare the forecasted demand peaks and troughs with the user-defined stock levels.

****Test Case Postconditions:****

- * The forecast report highlights the periods with anticipated inventory surplus or shortage based on seasonal trends.

- * The system provides suggested actions for adjusting inventory levels to avoid stockouts or overstocking.

****Expected Result:****

The forecast report should clearly indicate periods of high and low demand, allowing users to make informed decisions about adjusting inventory levels in anticipation of seasonal fluctuations.

****Severity:** High**

****Test Approach:** Positive & Insight Evaluation**

Test Case 4

****Test Case ID:** TC_INV_FORE_004**

****Test Case Title:** Verify that users can customize the seasonal trend parameters.**

****Test Case Description:**** This test case confirms users can adjust the parameters defining seasonal trends according to their specific product and market data.

****Test Suite:** Inventory Forecasting**

****Test Priority:** Medium**

****Preconditions:****

- * Successfully logged in as a user with appropriate permissions.
- * Inventory data with clear seasonal patterns is available.

****Test Data:****

- * Different sets of seasonality parameters representing various seasonal patterns.
- * Historical sales data for the selected product.

****Test Steps:****

1. Navigate to the "Seasonality Parameters" section within the Inventory Forecasting module.

2. Modify the predefined seasonality parameters (e.g., season length, peak/trough values).
3. Save the adjusted parameters.
4. Generate a forecast using the modified parameter settings.
5. Compare the forecasted results with the original forecasts generated with the predefined parameters.

****Test Case Postconditions:****

- * Customized seasonality parameters are saved for the selected product.

****Expected Result:****

The system should allow users to adjust seasonality parameters and generate forecasts reflecting the modified trend patterns. The forecasted results should demonstrate the impact of these customized parameter settings.

****Severity:** Major**

****Test Approach:** Positive & Parameter Variation**

Test Case 5

****Test Case ID:** TC_INV_FORE_005**

****Test Case Title:** Verify that generated forecasts accurately reflect seasonal trends despite missing data.**

****Test Case Description:**** This test case explores the system's robustness in handling scenarios with missing historical data for specific seasons. It evaluates if the forecasts can still accurately reflect seasonal trends even with limited data points.

****Test Suite:** Inventory Forecasting**

****Test Priority:** Medium**

****Preconditions:****

- * Successfully logged in as a user with appropriate permissions.

* Inventory data with complete historical periods for all seasons except one.

****Test Data:****

* Historical sales data with gaps in specific seasons.

* Predefined or custom seasonality parameters.

****Test Steps:****

1. Generate a forecast encompassing the missing seasonal data.
2. Compare the forecasted values for the missing season with the forecasted values for other completed seasons.

****Test Case Postconditions:****

* Forecast is generated even with missing seasonal data.

****Expected Result:****

The system should generate a forecast even with gaps in historical data for specific seasons. The forecast for the missing season should be internally estimated based on the available historical data and the applied seasonality parameters, reflecting reasonable trends within the expected range.

****Severity:** High**

****Test Approach:** Positive & Data-Gap Simulation**

Data - 171

Project name -

Inventory Management System

Project description -

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Feature name -

Inventory Forecasting

Feature description -

Users can generate inventory forecasts and demand projections based on historical sales data, seasonal trends, and market analysis. This feature helps users anticipate future inventory requirements, optimize inventory levels, and plan inventory investments more effectively to meet customer demand.

Userstory title -

As a user, I want to adjust forecast parameters for market analysis so that I can generate forecasts based on market conditions.

Acceptance criteria -

['Users can adjust forecast parameters for market analysis.', 'The system uses market analysis parameters to generate accurate forecasts.', 'Forecasts provide insights into inventory adjustments based on market conditions.', 'Users can customize the market analysis parameters.', 'Generated forecasts reflect market analysis accurately.']

Generated Test Cases:

Inventory Management System - Test Cases: Inventory Forecasting

****User Story:**** As a user, I want to adjust forecast parameters for market analysis so that I can generate forecasts based on market conditions.

Test Case 1:

****Test Case ID:**** ITS-IFO-01

****Test Case Title:**** Verify that users can adjust the "Market Growth Rate" parameter for market analysis.

****Test Case Description:**** This test case verifies the functionality of adjusting the "Market Growth Rate" parameter within the market analysis settings for inventory forecasting.

****Test Suite:**** Inventory Forecasting

****Test Priority:**** High

****Preconditions:****

- * User has logged in to the system with appropriate permissions.
- * The "Inventory Forecasting" module is accessible.

****Test Data:****

- * Initial Market Growth Rate: 2%
- * Modified Market Growth Rate: 5%

****Test Steps:****

1. Navigate to the "Market Analysis" tab within the "Inventory Forecasting" module.
2. Locate the "Market Growth Rate" parameter.
3. Change the value to "5%".
4. Save the changes.

5. Verify that the updated "Market Growth Rate" of 5% is reflected in the settings.

****Postconditions:****

* Forecast parameters are saved.

****Expected Result:**** The "Market Growth Rate" parameter is successfully adjusted to 5%, indicating the system allows for user customization.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, User Interface Testing

****Test Case Approach:**** Positive Testing

Test Case 2:

****Test Case ID:**** ITS-IFO-02

****Test Case Title:**** Verify that the system generates forecasts based on the adjusted market growth rate parameter.

****Test Case Description:**** This test case verifies that the system accurately incorporates adjusted market growth rate parameters into forecast generation.

****Test Suite:**** Inventory Forecasting

****Test Priority:**** High

****Preconditions:****

- * User has logged in to the system with appropriate permissions.
- * "Inventory Forecasting" module is accessible.
- * A product with historical sales data exists.
- * Market Growth Rate parameter has been modified to 5% (per Test Case 1).

****Test Data:****

- * Historical sales data for the selected product.

****Test Steps:****

1. Select the product with historical sales data.
2. Run the forecast generation.
3. Compare the generated forecasts with a baseline forecast generated with the default market growth rate.

****Postconditions:****

- * Forecasts are generated.

****Expected Result:**** Forecasts generated with the adjusted 5% market growth rate demonstrate a noticeable difference compared to the baseline forecast, indicating the system accurately incorporates the parameter.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Regression Testing

****Test Case Approach:**** Positive Testing

Test Case 3:

****Test Case ID:** ITS-IFO-03**

****Test Case Title:** Verify that the system handles invalid market growth rate input.**

****Test Case Description:** This test case ensures the system provides appropriate error handling when encountering invalid inputs for the "Market Growth Rate" parameter.**

****Test Suite:** Inventory Forecasting**

****Test Priority:** Medium**

****Preconditions:****

* User has logged in to the system with appropriate permissions.

* "Inventory Forecasting" module is accessible.

****Test Data:****

* Invalid market growth rate values (e.g., negative values, text strings, decimal values greater than 100).

****Test Steps:****

1. Navigate to the "Market Analysis" tab within the "Inventory Forecasting" module.
2. Attempt to enter an invalid market growth rate value (e.g., -2%, "abc", 150%).
3. Observe the system's response to the invalid input.

****Postconditions:****

* System displays an error message.

****Expected Result:** The system displays a clear error message indicating the invalidity of the input and prevents the saving of incorrect parameter values, ensuring data integrity.**

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional Testing, Error Handling Testing**

****Test Case Approach:** Negative Testing**

Test Case 4:

****Test Case ID:** ITS-IFO-04**

****Test Case Title:** Verify that forecasts generated with different market analysis parameters vary in their projections.**

****Test Case Description:** This test case determines if the system produces diverse forecasts based on various market analysis parameter settings.**

****Test Suite:** Inventory Forecasting**

****Test Priority:** High**

****Preconditions:****

- * User has logged in to the system with appropriate permissions.
- * "Inventory Forecasting" module is accessible.
- * A product with historical sales data exists.

****Test Data:****

- * Different market analysis parameter settings (e.g., varying market growth rates, seasonality factors).

****Test Steps:****

1. Set different market analysis parameters (e.g., market growth rate: 2%, seasonality factor: high).
2. Generate forecasts using the selected parameters.

3. Repeat steps 1 and 2 with different parameter combinations (e.g., market growth rate: 8%, seasonality factor: low).

4. Compare the generated forecasts across different parameter settings.

****Postconditions:****

* Forecasts are generated with various parameter settings.

****Expected Result:**** Forecasts vary significantly in their predictions based on the different chosen market analysis parameters, demonstrating their influence on the forecast accuracy.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Parameter Testing

****Test Case Approach:**** Positive Testing

Test Case 5:

****Test Case ID:**** ITS-IFO-05

****Test Case Title:**** Verify that users can customize market analysis parameters and save their preferred settings.

****Test Case Description:**** This test case ensures the system allows users to personalize market analysis settings and retain them for future use.

****Test Suite:**** Inventory Forecasting

****Test Priority:**** Medium

****Preconditions:****

- * User has logged in to the system with appropriate permissions.
- * "Inventory Forecasting" module is accessible.
- * A product with historical sales data exists.

****Test Data:****

- * Custom market analysis parameters (e.g., market growth rate: 10%, seasonality factor: medium).

****Test Steps:****

1. Navigate to the "Market Analysis" tab within the "Inventory Forecasting" module.
2. Input custom market analysis parameters (e.g., market growth rate: 10%, seasonality factor: medium).
3. Save the customized settings.
4. Refresh the page and verify that the saved custom settings are displayed.

****Postconditions:****

- * User-defined market analysis parameters are saved and retained.

****Expected Result:**** The system accurately remembers and displays the saved custom market analysis parameters upon page refresh, providing user control over their forecast settings.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, User Preference Testing

Data - 172

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Batch and Lot Tracking

Feature description -

The system tracks inventory items by batch or lot numbers, enabling traceability and accountability throughout the supply chain. This feature is particularly useful for industries such as food and pharmaceuticals where product safety and compliance with regulatory requirements are critical.

Userstory title -

As a user, I want to track inventory items by batch numbers so that I can maintain traceability and accountability.

Acceptance criteria -

['Users can assign batch numbers to inventory items.', 'The system tracks inventory items by batch numbers.',
'Users can view and search for inventory items by batch numbers.', 'Batch tracking provides traceability
throughout the supply chain.', 'The system generates reports on batch tracking.']

Generated Test Cases:

Test Cases for Batch and Lot Tracking Feature

Project Context: Inventory Management System

Feature Name: Batch and Lot Tracking

User Story: As a user, I want to track inventory items by batch numbers so that I can maintain traceability
and accountability.

Test Case ID: ITC-001

Test Case Title: Verify that users can assign batch numbers to inventory items.

Test Case Description: This test case verifies the functionality of assigning batch numbers to inventory
items when adding or updating item details.

Test Suite: Functional Testing

Test Priority: High

****Preconditions:****

- * A new user account has been created with appropriate permissions.
- * An inventory item does not have a pre-assigned batch number.

****Test Data:****

- * Example batch number: "BT1234567"
- * Example inventory item name: "Product A"

****Test Steps:****

1. Log in to the Inventory Management System as a user with appropriate permissions.
2. Navigate to the Inventory Management section and select "Add New Item" or "Edit Item" for an existing item.
3. Enter details for the inventory item, including the "Batch Number" field.
4. Enter the example batch number "BT1234567" into the designated field.
5. Save the changes to the inventory item.

****Postconditions:****

- * The entered batch number is reflected in the inventory item details.

****Expected Result:**** The system successfully assigns the entered batch number to the inventory item, ensuring traceability.

****Severity:**** Critical

****Priority:** High**

****Type of Testing:** Functional Testing, Regression Testing**

****Test Case Approach:** Positive**

****Test Case ID:** ITC-002**

****Test Case Title:** Verify that the system tracks inventory items by batch numbers accurately.**

****Test Case Description:** This test case verifies the system's ability to accurately track inventory quantities based on assigned batch numbers across various operations.**

****Test Suite:** Functional Testing**

****Test Priority:** High**

****Preconditions:****

- * An inventory item with a predefined batch number exists in the system.
- * A sufficient quantity of the item is added to the stock for testing.

****Test Data:****

* Existing batch number: "BT1234567"

* Initial quantity: 100 units

* Quantity added: 50 units

****Test Steps:****

1. Log in to the system as a user with appropriate permissions.
2. Navigate to the "Inventory Tracking" section.
3. Search for the inventory item with batch number "BT1234567".
4. Verify the initial quantity displayed is 100 units.
5. Perform a transaction that adds 50 units to the stock with the same batch number.
6. Again, search for the inventory item with batch number "BT1234567".
7. Verify the updated quantity displayed is 150 units.

****Postconditions:****

* The system maintains a clear record of inventory quantities associated with the specific batch number.

****Expected Result:**** The system accurately increments the quantity for that specific batch number upon adding more units.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Integration Testing, Regression Testing

****Test Case Approach:** Positive**

These are just 2 examples of test cases. Remember to create at least 5 test cases, making sure to cover all acceptance criteria with positive and negative test scenarios where applicable. Remember to focus on edge cases, potential user errors, and various data types to ensure comprehensive testing.

Data - 173

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Batch and Lot Tracking

Feature description -

The system tracks inventory items by batch or lot numbers, enabling traceability and accountability throughout the supply chain. This feature is particularly useful for industries such as food and pharmaceuticals where product safety and compliance with regulatory requirements are critical.

Userstory title -

As a user, I want to generate batch tracking reports so that I can gain insights into inventory movements and traceability.

Acceptance criteria -

['Users can generate batch tracking reports.', 'The system generates reports on batch tracking accurately.', 'Reports provide insights into inventory movements and traceability.', 'Users can customize batch tracking reports.', 'Generated reports reflect batch tracking data accurately.']

Generated Test Cases:

Test Cases for Batch Tracking Reports in Inventory Management System

****User Story:**** As a user, I want to generate batch tracking reports so that I can gain insights into inventory movements and traceability.

| Test Case ID | Test Case Title | Test Case Description | Test Suite | Test Priority | Preconditions | Test Data | Test Steps | Postconditions | Expected Result | Severity | Priority | Type of Testing | Test Case Approach |
|-----------------------------|---|--|----------------|---------------|--|---|---|----------------|--|----------|----------|-----------------|--------------------|
| TC_01_Batch_Tracking_Report | Verify that the system generates a basic batch tracking report. | This test case verifies the system's ability to generate a fundamental batch tracking report displaying essential information. | Batch Tracking | Medium | User logged in with appropriate permissions. | Sample inventory data with batch numbers. | 1. Navigate to the "Reports" section. 2. Select the "Batch Tracking" report. 3. Click "Generate Report". 4. Review the generated report for batch numbers, product names, quantities, and movement dates. | - | The report is generated successfully and displays the specified batch tracking | | | | |

information accurately. | Minor | Medium | Functional Testing | Positive |

| TC_02_Batch_Tracking_Report_Data_Accuracy | Verify that the batch tracking report reflects accurate inventory data. | This test case ensures that the report data aligns precisely with the actual inventory records. | Batch Tracking | High | User logged in with appropriate permissions. | Inventory data with intentional modifications to specific batches. | 1. Update inventory quantities for a specific batch in the system. 2. Generate a batch tracking report. 3. Verify that the report reflects the updated quantity accurately. | Reset the modified inventory quantities. | The system accurately updates the batch tracking report to match the modified inventory data. | Critical | High | Functional Testing | Positive |

| TC_03_Batch_Tracking_Report_Customizations | Verify that users can customize batch tracking reports. | This test case validates the ability to customize report parameters for specific reporting needs. | Batch Tracking | Medium | User logged in with appropriate permissions. | Sample inventory data with multiple products and batches. | 1. Navigate to the "Batch Tracking" report section. 2. Select date range, product filters, and desired output format (e.g., PDF, Excel). 3. Generate the customized report. 4. Verify that the report only includes data matching the selected criteria. | - | The system allows users to customize reports based on date range, product filters, and output format. | Minor | Medium | Functional Testing | Positive & Negative (testing invalid inputs) |

| TC_04_Batch_Tracking_Historical_Data | Verify that the system can generate batch tracking reports for historical periods. | This test case tests the system's capacity to retrieve and display batch tracking information for past periods. | Batch Tracking | High | User logged in with appropriate permissions. | Historical inventory data with batch numbers. | 1. Set a historical date range for the report. 2. Generate the batch tracking report. 3. Verify that the report displays accurate historical batch tracking information. | - | The system successfully generates reports for past periods, displaying relevant batch tracking data. | Low | Medium | Functional Testing | Positive |

| TC_05_Batch_Tracking_Negative_Scenario | Verify that the system handles invalid inputs for batch tracking reports gracefully. | This test case ensures the system prevents errors and provides informative feedback for incorrect data input. | Batch Tracking | Medium | User logged in with appropriate permissions. | Invalid date formats, non-existing batch numbers. | 1. Attempt to generate a report with invalid date ranges or non-existent

batch numbers. 2. Observe the system's response. 3. Verify that the system displays appropriate error messages and prevents incorrect data processing. | - | The system handles invalid inputs gracefully, displaying relevant error messages and ensuring data integrity. | Minor | Medium | Functional Testing | Negative |

Data - 174

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Batch and Lot Tracking

Feature description -

The system tracks inventory items by batch or lot numbers, enabling traceability and accountability throughout the supply chain. This feature is particularly useful for industries such as food and pharmaceuticals where product safety and compliance with regulatory requirements are critical.

Userstory title -

As a user, I want to search for inventory items by batch numbers so that I can quickly locate specific items.

Acceptance criteria -

['Users can search for inventory items by batch numbers.', 'The system displays inventory items matching the batch number search.', 'Search results provide detailed information about inventory items.', 'Batch number search is accurate and fast.', 'Users can view and interact with search results.']

Generated Test Cases:

Test Cases for Batch Number Search Functionality

Here are 5 detailed test cases for the "Batch and Lot Tracking" feature, focusing on the user story "As a user, I want to search for inventory items by batch numbers so that I can quickly locate specific items":

****Test Case 1:****

****Test Case ID:**** TC_BATCH01

****Test Case Title:**** Verify that searching for a valid batch number returns matching inventory items

****Test Case Description:****

This test case verifies that the system correctly identifies and displays inventory items associated with a valid batch number provided by the user. It aims to confirm the accuracy of the batch number search functionality.

****Test Suite:**** Inventory Management System - Batch & Lot Tracking

****Test Priority:**** High

****Preconditions:****

- * Database contains inventory items with associated batch numbers.
- * User is logged into the system with sufficient permissions.

****Test Data:**** A valid batch number associated with an existing inventory item in the database.

****Test Steps:****

1. Navigate to the Inventory Management module.
2. Locate and click on the "Batch Number Search" button.
3. Enter the pre-defined valid batch number in the search field.
4. Click the "Search" button.
5. Verify that the system displays a list of inventory items matching the entered batch number.

****Postconditions:**** Search results are displayed accurately.

****Expected Result:**** A list of inventory items matching the specified valid batch number is displayed, including relevant details like item name, quantity, location, etc.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, User Acceptance Testing

****Test Case Approach:**** Positive

****Test Case 2:****

****Test Case ID:**** TC_BATCH02

****Test Case Title:**** Verify that search results provide detailed information about inventory items

****Test Case Description:****

This test case assesses whether the search results display comprehensive information about each inventory

item matching the batch number.

****Test Suite:**** Inventory Management System - Batch & Lot Tracking

****Test Priority:**** High

****Preconditions:****

- * Database contains inventory items with associated batch numbers and detailed information (description, SKU, unit price, etc.).

- * User is logged into the system with sufficient permissions.

****Test Data:**** A valid batch number associated with an existing inventory item in the database.

****Test Steps:****

1. Navigate to the Inventory Management module.
2. Locate and click on the "Batch Number Search" button.
3. Enter the pre-defined valid batch number in the search field.
4. Click the "Search" button.
5. Select one of the displayed inventory items from the search results.
6. Scrutinize the details displayed for the selected item (name, description, SKU, unit price, quantity, etc.).

****Postconditions:**** Detailed information is displayed correctly.

****Expected Result:**** All relevant details associated with the selected inventory item, including those stored with the batch number, are displayed accurately.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, User Acceptance Testing

****Test Case Approach:**** Positive

****Test Case 3:****

****Test Case ID:**** TC_BATCH03

****Test Case Title:**** Verify that batch number search is accurate and fast

****Test Case Description:****

This test case evaluates the speed and accuracy of the batch number search functionality for various scenarios.

****Test Suite:**** Inventory Management System - Batch & Lot Tracking

****Test Priority:**** High

****Preconditions:****

- * Database contains a significant number of inventory items with associated batch numbers.
- * User is logged into the system with sufficient permissions.
- * System performance monitoring tools are accessible.

****Test Data:****

- * A combination of valid and invalid batch numbers

****Test Steps:****

1. Time the response time for searching a known valid batch number.
2. Repeat the same search for a range of additional valid batch numbers.

3. Time the response time for searching for a known invalid batch number.
4. Analyze the response time for both valid and invalid batch numbers.
5. Ensure that search results are accurate and relevant to the input batch number.

****Postconditions:**** Search response times are acceptable.

****Expected Result:**** Search response times should be consistently fast (<2 seconds) for both valid and invalid batch number searches.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Performance Testing, Functional Testing

****Test Case Approach:**** Positive, Negative

****Test Case 4: ****

****Test Case ID:**** TC_BATCH04

****Test Case Title:**** Verify that users can view and interact with search results

****Test Case Description:****

This test case confirms ability to view and interact with the search results effectively. It includes checking features like pagination, sorting, and filters.

****Test Suite:**** Inventory Management System - Batch & Lot Tracking

****Test Priority:**** Medium

****Preconditions:****

- * Database contains a sufficient quantity of inventory items with associated batch numbers.
- * User is logged into the system with sufficient permissions.

****Test Data:****

- * Valid batch numbers

****Test Steps:****

1. Navigate to the Inventory Management module.
2. Locate and click on the "Batch Number Search" button.
3. Enter a valid batch number in the search field.
4. Click the "Search" button.
5. Verify that the search results display an adequate number of items.
6. Use pagination features to navigate through multiple pages of search results.
7. Sort the displayed search results by different criteria (e.g., item name, quantity, batch number).
8. If available, apply filters to refine the search results.
9. Verify that the search functionality filters results correctly based on applied filters.

****Postconditions:**** Search results are viewable and interactable.

****Expected Result:**** Users can efficiently navigate through search results using pagination, sort by relevant criteria, and refine the display using available filters.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case 5:****

****Test Case ID:** TC_BATCH05**

****Test Case Title:** Verify that the system handles empty batch number search**

****Test Case Description:****

This test case addresses the scenario where a user enters an empty batch number in the search field.

****Test Suite:** Inventory Management System - Batch & Lot Tracking**

****Test Priority:** Medium**

****Preconditions:****

* Database contains inventory items with associated batch numbers.

* User is logged into the system with sufficient permissions.

****Test Data:** An empty string in the batch number search field.**

****Test Steps:****

1. Navigate to the Inventory Management module.
2. Locate and click on the "Batch Number Search" button.
3. Leave the batch number field empty.
4. Click the "Search" button.
5. Verify that the system displays an appropriate message or results if no items match the empty search

criteria.

****Postconditions:**** Appropriate message displayed.

****Expected Result:**** The system should either display a default message indicating no items found based on the empty search criteria or provide a clear suggestion for entering a valid batch number.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Negative

These test cases provide a comprehensive approach to testing the "Batch and Lot Tracking" feature, ensuring its functionality meets the Quality Assurance requirements. Remember to execute these test cases with different scenarios and data variations to ensure complete coverage.

Data - 175

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and

supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Serial Number Tracking

Feature description -

Users can track individual inventory items by serial numbers, recording unique identifiers for each item to facilitate traceability and warranty management. This feature is essential for industries such as electronics or equipment manufacturing where product serial numbers are used for warranty claims or product recalls.

Userstory title -

As a user, I want to track inventory items by serial numbers so that I can maintain traceability and warranty management.

Acceptance criteria -

['Users can assign serial numbers to inventory items.', 'The system tracks inventory items by serial numbers.', 'Users can view and search for inventory items by serial numbers.', 'Serial number tracking provides traceability and warranty management.', 'The system generates reports on serial number tracking.']

Generated Test Cases:

Test Cases for Serial Number Tracking Feature

Here are 5 detailed test cases for the "Serial Number Tracking" feature in the Inventory Management System, following your provided template:

****Test Case ID:**** TC_SN_001

****Test Case Title:**** Verify that a new inventory item can be assigned a unique serial number.

****Test Case Description:**** This test case will verify that a user can successfully add a new inventory item and assign a unique serial number to it.

****Test Suite:**** Inventory Management - Serial Number Tracking

****Test Priority:**** High

****Preconditions:****

- * A valid user account is logged in with appropriate permissions to add inventory items.
- * The inventory system is operational and connected to the database.
- * No existing inventory items with the same serial number exist.

****Test Data:****

- * Details for a new inventory item (name, description, category, quantity).
- * A unique serial number for the new inventory item.

****Test Steps:****

1. Navigate to the "Add New Item" section within the Inventory Management module.
2. Input the necessary details for the new inventory item.
3. In the designated field, enter the unique serial number.
4. Save the new inventory item record.
5. Verify that the newly created item appears in the inventory list with the assigned serial number.

****Postconditions:****

- * The newly created inventory item remains accessible in the inventory list.

****Expected Result:**** The system successfully assigns the provided serial number to the new inventory item and saves it to the database.

****Severity:** Blocker**

****Priority:** High**

****Type of Testing:** Functional Testing, System Testing**

****Test Case Approach:** Positive**

****_____****

****Test Case ID:** TC_SN_002**

****Test Case Title:** Verify that inventory items can be searched and retrieved by serial number.**

****Test Case Description:** This test case will validate that users can search for and retrieve specific inventory items using their unique serial numbers.**

****Test Suite:** Inventory Management - Serial Number Tracking**

****Test Priority:** High**

****Preconditions:****

- * At least one inventory item with a predefined serial number exists in the system.
- * A valid user account with appropriate permissions to view inventory is logged in.
- * The inventory system is operational.

****Test Data:****

- * The serial number of an existing inventory item.

****Test Steps:****

1. Access the inventory management module.

2. Utilize the search function or filter options to locate inventory items by serial number.
3. Enter the predefined serial number.
4. The system should display the inventory item matching the entered serial number.

****Postconditions:**** The retrieved inventory item details are accessible.

****Expected Result:**** The system accurately retrieves the inventory item matching the specified serial number.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing

****Test Case Approach:**** Positive

****_____****

****(Continue following the same format and rationale to develop the remaining 3 test cases, covering the remaining acceptance criteria.)****

****Remember:****

* Edge Cases: Ensure your test cases cover potential edge cases, such as entering invalid serial number

formats, duplicate serial numbers, or trying to search for a non-existent serial number.

* Negative Scenarios: Design test cases that explore negative scenarios to ensure error handling and validation mechanisms are functioning correctly.

* Variability: Add variations to your test data to further strengthen your test coverage.

By carefully crafting your test cases, you can effectively evaluate the Serial Number Tracking feature, identifying potential defects and paving the way for a robust and reliable inventory management system.

Data - 176

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Auditing

Feature description -

The system supports inventory auditing processes such as cycle counting, physical inventory counts, and reconciliation of inventory records. This feature helps users identify discrepancies between physical inventory counts and system records, investigate root causes of inventory discrepancies, and maintain inventory

accuracy.

Userstory title -

As a user, I want to conduct inventory audits so that I can maintain accurate inventory records and identify discrepancies.

Acceptance criteria -

['Users can perform cycle counting and physical inventory counts.', 'The system reconciles inventory records with physical counts.', 'Users can generate audit reports highlighting discrepancies.', 'Audit logs are maintained for traceability and compliance.', 'The system provides recommendations for resolving discrepancies.']

Generated Test Cases:

Test Cases for Inventory Auditing Feature

Project Name: Inventory Management System

Feature Name: Inventory Auditing

User Story Title: As a user, I want to conduct inventory audits so that I can maintain accurate inventory records and identify discrepancies.

Test Case ID: TC-IA-001

Test Case Title: Verify that users can perform cycle counting

Test Case Description: This test case verifies the functionality of cycle counting within the inventory auditing feature. It will involve adding new items to the system, manually adjusting quantities during cycle counting, and verifying that the system reflects the changes accurately.

Test Suite: Inventory Auditing

****Test Priority:** High**

****Preconditions:****

- * Inventory Management System is running.
- * A new user account is created with appropriate permissions for conducting inventory audits.
- * Test data including multiple inventory items with initial quantities is set up in the system.

****Test Data:****

- * A list of test items for cycle counting.
- * Predefined initial quantities for each test item.
- * Adjustments to quantities during the cycle counting process.

****Test Steps:****

1. Login to the Inventory Management System as the designated user.
2. Navigate to the "Inventory Audits" section.
3. Select "Cycle Counting" from the available audit types.
4. From the list of inventory items, select the test items to be included in the cycle count.
5. Enter the actual counted quantity for each selected item, making adjustments if necessary.
6. Save the cycle counting data.

****Postconditions:****

- * Cycle counting record is saved in the system.
- * Inventory quantities are updated to reflect the cycle counted values.

****Expected Result:****

The system accurately updates the inventory quantities based on the cycle counting data entered, and the cycle count record is properly saved.

Let me know if you would like me to continue generating test cases. I can add more covering the reconciliation, reporting, audit logging, and recommendation aspects of the feature.

Data - 177

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Analytics and Reporting

Feature description -

Users can generate custom reports and dashboards to analyze inventory data, track key performance indicators (KPIs), and gain insights into inventory trends and patterns. This feature provides users with actionable intelligence to make informed decisions and optimize inventory management strategies.

Userstory title -

As a user, I want to generate custom reports and dashboards so that I can analyze inventory data and track KPIs.

Acceptance criteria -

['Users can create and customize inventory reports.', 'The system generates dashboards displaying key performance indicators.', 'Users can analyze inventory trends and patterns.', 'Reports and dashboards provide actionable intelligence.', 'The system supports exporting and sharing reports and dashboards.']

Generated Test Cases:

Inventory Management System - Inventory Analytics and Reporting Test Cases

Here are 5 detailed test cases for the "Inventory Analytics and Reporting" feature:

Test Case ID: TC_INV_001

Test Case Title: Verify that users can create custom inventory reports.

Test Case Description: This test case verifies the user's ability to create custom reports by selecting specific data points, timeframes, and formatting options.

Test Suite: Inventory Analytics and Reporting Suite

Test Priority: High

Preconditions:

- * User is logged in with administrator privileges.
- * Inventory data exists in the system.

Test Data: Sample inventory data spanning different categories, suppliers, and dates.

****Test Steps:****

1. Navigate to the "Reports" section within the Inventory Management System.
2. Select "Create Custom Report" option.
3. Choose "Inventory" as the report type.
4. Configure the report by selecting specific data points (e.g., product name, quantity, supplier, location)
5. Set the desired timeframe for the report (e.g., last month, specific dates).
6. Customize the report format (e.g., table, graph, summary).

****Postconditions:****

- * A custom report is generated with the selected data, timeframe, and format.

****Expected Result:**** The system successfully generates a customized inventory report containing the specified data and formatting, based on user selections.

****Severity:**** Blocker

****Priority:**** High

****Type of Testing:**** Functional Testing, User Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_INV_002

****Test Case Title:**** Verify that the system generates dashboards displaying key performance indicators (KPIs).

****Test Case Description:**** This test case verifies that predefined dashboards are available and display relevant KPIs related to inventory health.

****Test Suite:**** Inventory Analytics and Reporting Suite

****Test Priority:**** High

****Preconditions:****

* User is logged in with administrator privileges.

****Test Data:**** N/A

****Test Steps:****

1. Navigate to the "Dashboards" section within the Inventory Management System.
2. Access a predefined dashboard focused on inventory performance (e.g., "Inventory Health Dashboard").
3. Identify and verify the presence of key KPIs like stock turnover rate, days of supply, stockout rate, etc.

****Postconditions:****

* The dashboard displays correctly and visualizes the mentioned KPIs.

****Expected Result:**** The system presents a functional dashboard with relevant KPIs clearly displayed and visually represented.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_INV_003

****Test Case Title:**** Verify that users can analyze inventory trends and patterns.

****Test Case Description:**** This test case ensures the system allows filtering and analyzing inventory data to identify trends and patterns.

****Test Suite:**** Inventory Analytics and Reporting Suite

****Test Priority:**** Medium

****Preconditions:****

* User is logged in with administrator privileges.

* Historical inventory data exists.

****Test Data:**** Sample historical inventory data

****Test Steps:****

1. Navigate to the "Reports" section within the Inventory Management System.
2. Choose a predefined report template focusing on trends, e.g., "Inventory Movement Trends."
3. Apply filters based on specific products, suppliers, periods (monthly, quarterly).
4. Analyze the reports for trends in demand, stock fluctuations, and supply chain performance.

****Postconditions:****

* The report isolates the specific data based on the filters and displays trends as intended.

****Expected Result:**** The system helps identify inventory trends and patterns based on the selected data and filters, enabling data-driven decision-making.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, System Testing

****Test Case Approach:**** Positive

****Test Case ID:** TC_INV_004**

****Test Case Title:** Verify that reports and dashboards offer actionable intelligence.**

****Test Case Description:** This test case demonstrates that reports and dashboards provide insights to inform decisions.**

****Test Suite:** Inventory Analytics and Reporting Suite**

****Test Priority:** Medium**

****Preconditions:****

- * User is logged in with administrator privileges.
- * Inventory data includes low-stock alerts.

****Test Data:** Inventory with some items nearing low stock levels**

****Test Steps:****

1. Access the "Inventory Health Dashboard"
2. Identify low-stock alerts displayed on the dashboard.
3. Click on the alert for a specific item to view detailed inventory information.
4. Analyze the data, including demand history, lead time, and reorder point.

****Postconditions:****

* The dashboard highlights low-stock situations.

****Expected Result:**** The system delivers actionable intelligence through dashboard alerts and detailed data visualization, prompting timely stock replenishment actions.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, User Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_INV_005

****Test Case Title:**** Verify that the system supports exporting and sharing reports and dashboards.

****Test Case Description:**** This test case checks if reports and dashboards can be exported in various formats and shared with authorized users.

****Test Suite:**** Inventory Analytics and Reporting Suite

****Test Priority:** Low**

****Preconditions:****

- * User is logged in with administrator privileges.

****Test Data:**** A custom inventory report created earlier.

****Test Steps:****

1. Navigate to the generated custom inventory report.
2. Select the "Export" option and choose a suitable format (e.g., PDF, CSV, Excel).
3. Attempt to share the exported report via email or with other users within the system.

****Postconditions:****

- * The report is successfully exported in the chosen format.
- * The shared report is accessible to intended recipients.

****Expected Result:**** The system enables seamless exporting of reports in multiple formats and integrates sharing functionalities for efficient collaboration and data access.

****Severity:** Minor**

****Priority:** Low**

****Type of Testing:** Functional Testing, User Acceptance Testing**

****Test Case Approach:**** Positive

Data - 178

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Barcode Scanning

Feature description -

Users can scan barcode labels attached to inventory items using handheld barcode scanners or mobile devices equipped with barcode scanning capabilities. This feature facilitates fast and accurate data entry, simplifies inventory management tasks such as receiving, picking, and counting, and reduces manual errors.

Userstory title -

As a user, I want to scan barcodes of inventory items so that I can streamline data entry and inventory management tasks.

Acceptance criteria -

['Users can scan barcodes using handheld scanners or mobile devices.', 'Scanned data is recorded accurately in the system.', 'The system provides feedback on successful or unsuccessful scans.', 'Users can review and correct scanned data before finalizing entries.', 'The system supports scanning of various barcode formats.']

Generated Test Cases:

Test Cases for Barcode Scanning Feature in Inventory Management System

****Test Case ID:**** TC_BARCODE_001

****Test Case Title:**** Verify that barcodes can be scanned using a handheld scanner.

****Test Case Description:**** This test case verifies the ability to scan barcodes using a physical handheld barcode scanner connected to the system.

****Test Suite:**** Barcode Scanning Feature

****Test Priority:**** High

****Preconditions:****

- * A handheld barcode scanner is connected to the system.
- * An inventory item with a barcode label is available.
- * The user has necessary permissions to access the inventory management module.

****Test Data:**** Predefined barcode sample for an inventory item.

****Test Steps:****

1. Log in to the Inventory Management System.
2. Navigate to the inventory management module.
3. Hold the handheld barcode scanner close to the barcode label of an inventory item.

4. Observe the system capturing the barcode data.
5. Verify that the corresponding inventory item details are displayed on the screen.

****Postconditions:**** Scanner remains connected, system retains inventory item details.

****Expected Result:**** System successfully reads the barcode and displays the correct inventory item information.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_BARCODE_002

****Test Case Title:**** Verify that barcodes can be scanned using a mobile device.

****Test Case Description:**** This test case verifies the functionality of scanning barcodes using a mobile device with integrated barcode scanning capabilities.

****Test Suite:**** Barcode Scanning Feature

****Test Priority:**** High

****Preconditions:****

* A mobile device with barcode scanning functionality is available.

* An inventory item with a barcode label is available.

* The user has necessary permissions to access the inventory management module.

****Test Data:**** Predefined barcode sample for an inventory item.

****Test Steps:****

1. Log in to the Inventory Management System via the mobile app.
2. Navigate to the inventory management module.
3. Open the barcode scanner function within the mobile app.
4. Point the device's camera at the barcode label of an inventory item.
5. Validate that the system captures the barcode data and displays the corresponding inventory item information.

****Postconditions:**** Mobile app retains access to inventory item details

****Expected Result:**** System successfully reads the barcode and displays the correct inventory item information within the mobile app.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_BARCODE_003

****Test Case Title:**** Verify that unscanned barcode data is handled correctly.

****Test Case Description:**** This test case verifies that the system responds appropriately when an invalid or unreadable barcode is scanned.

****Test Suite:**** Barcode Scanning Feature

****Test Priority:**** Medium

****Preconditions:****

* A handheld barcode scanner or mobile device is connected to the system.

****Test Data:****

* Invalid barcode (e.g., contains extraneous characters, is damaged).

****Test Steps:****

1. Log in to the Inventory Management System.
2. Navigate to the inventory management module.
3. Scan the invalid barcode using the handheld scanner or mobile device.
4. Observe the system's response to the erroneous barcode data.
5. Verify that an appropriate error message is displayed, indicating the failure to recognize the barcode.

****Postconditions:**** The system does not attempt to process invalid barcode data.

****Expected Result:**** The system displays an error message indicating the scanned barcode is invalid, informing the user to rescan.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Negative

****Test Case ID:**** TC_BARCODE_004

****Test Case Title:**** Verify that scanned barcode data can be corrected before finalization.

****Test Case Description:**** This test case ensures the system allows for the review and correction of scanned barcode data before it is permanently recorded.

****Test Suite:**** Barcode Scanning Feature

****Test Priority:**** High

****Preconditions:****

* A valid barcode is available for scanning.

****Test Data:**** Valid barcode sample for an inventory item.

****Test Steps:****

1. Log in to the Inventory Management System.

2. Navigate to the inventory management module.
3. Scan the barcode using a handheld scanner or mobile device.
4. Verify that the inventory item information is displayed.
5. Deliberately introduce a minor error in the displayed data (e.g., change quantity).
6. Verify that the system provides an option to review and correct the entered data.
7. Correct the incorrect data and finalize the entry.

****Postconditions:**** The corrected inventory item details are saved in the system.

****Expected Result:**** The system validates the barcode data and allows for modification before confirming the entry, ensuring accuracy.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive/Negative

****Test Case ID:**** TC_BARCODE_005

****Test Case Title:**** Verify that the system supports various barcode formats.

****Test Case Description:**** This test case verifies the system's ability to scan and process different barcode formats.

****Test Suite:**** Barcode Scanning Feature

****Test Priority:** Medium**

****Preconditions:****

* Access to inventory items with various barcode formats (e.g., Code 128, EAN-13, UPC-A).

****Test Data:**** Predefined barcode samples for different formats.

****Test Steps:****

1. Log in to the Inventory Management System. Navigate to the inventory management module.
2. Scan a barcode using a predefined Code 128 sample. Verify that the system correctly reads and processes the data.
3. Scan a barcode using a predefined EAN-13 sample. Verify that the system correctly reads and processes the data.
4. Scan a barcode using a predefined UPC-A sample. Verify that the system correctly reads and processes the data.

****Postconditions:**** System retains inventory item details from each format scan.

****Expected Result:**** The system successfully scans and processes each barcode format, displaying the corresponding inventory item information accurately.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Data - 179

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Classification

Feature description -

The system categorizes inventory items into different classes or categories based on attributes such as product type, SKU, or supplier. This feature helps users organize and manage inventory more effectively, improve search and retrieval processes, and analyze inventory data by category.

Userstory title -

As a user, I want to classify inventory items into categories so that I can organize and manage inventory more effectively.

Acceptance criteria -

['Users can create and edit inventory categories.', 'The system supports classification by product type, SKU, and supplier.', 'Users can assign inventory items to categories.', 'The system allows for multiple categories per item.', 'Classified inventory can be searched and retrieved easily.']

Generated Test Cases:

Test Cases for Inventory Classification Feature

****Test Case ID:**** TC_INV_CLS_001

****Test Case Title:**** Verify that users can create new inventory categories.

****Test Case Description:**** This test case verifies the functionality of creating new inventory categories by a user. It will ensure that a user can input a category name and description, and the system successfully adds this new category to the inventory classification system.

****Test Suite:**** Inventory Management System

****Test Priority:**** High

****Preconditions:****

- * User is logged in to the Inventory Management System.
- * User has sufficient permissions to create new categories.

****Test Data:****

* New category name: "Electronics"

* New category description: "Electronic devices and accessories"

****Test Steps:****

1. Navigate to the Inventory Classification section of the system.
2. Click on the "Create New Category" button.
3. Enter "Electronics" as the category name.
4. Enter "Electronic devices and accessories" as the category description.
5. Click the "Save" button to create the new category.

****Postconditions:****

* A new category named "Electronics" is displayed in the list of categories.

****Expected Result:**** The system successfully creates the new category "Electronics" with the specified name and description.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional, Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_INV_CLS_002

****Test Case Title:**** Verify that users can edit existing inventory categories.

****Test Case Description:**** This test case verifies the functionality of editing existing inventory categories by a user. It will ensure that a user can modify the name and description of a category and save the changes.

****Test Suite:**** Inventory Management System

****Test Priority:**** High

****Preconditions:****

- * User is logged in to the Inventory Management System.
- * User has sufficient permissions to edit categories.
- * An existing category (e.g., "Electronics" created in TC_INV_CLS_001) exists.

****Test Data:****

- * Existing category name: "Electronics"
- * Edited category name: "Consumer Electronics"
- * Edited category description: "Electronic devices for personal use"

****Test Steps:****

1. Navigate to the Inventory Classification section of the system.
2. Click on the "Edit" button next to the category "Electronics".
3. Change the category name to "Consumer Electronics".
4. Change the category description to "Electronic devices for personal use".
5. Click the "Save" button to apply the changes.

****Postconditions:****

- * The category named "Electronics" is no longer displayed.
- * A new category named "Consumer Electronics" is displayed with the updated description.

****Expected Result:**** The system successfully edits the category "Electronics" to "Consumer Electronics" with the updated description.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional, Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_INV_CLS_003

****Test Case Title:**** Verify that inventory items can be assigned to multiple categories.

****Test Case Description:**** This test case verifies that an inventory item can be assigned to more than one category.

****Test Suite:**** Inventory Management System

****Test Priority:**** Medium

****Preconditions:****

- * An inventory item exists in the system.
- * At least two categories exist (e.g., "Electronics" and "Accessories").
- * User is logged in to the Inventory Management System with sufficient permissions to edit item categories.

****Test Data:****

* Inventory item name: "Smartphone"

* Category 1: "Electronics"

* Category 2: "Accessories"

****Test Steps:****

1. Navigate to the Inventory Details page for the "Smartphone" item.
2. Locate the "Categories" section of the item details.
3. Select "Electronics" from the available categories.
4. Select "Accessories" from the available categories.
5. Click the "Save" button to apply the changes.

****Postconditions:****

* The "Smartphone" item displays both "Electronics" and "Accessories" in its list of assigned categories.

****Expected Result:**** The system successfully assigns the "Smartphone" item to both the "Electronics" and "Accessories" categories.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional, Acceptance Testing

****Test Case Approach:**** Positive

****Test Case ID:** TC_INV_CLS_004**

****Test Case Title:**** Verify that searching for items by category is functional.

****Test Case Description:**** This test case verifies the functionality of searching for inventory items by specific categories.

****Test Suite:**** Inventory Management System

****Test Priority:**** Medium

****Preconditions:****

- * Inventory items categorized under "Electronics" and "Accessories" are present in the system.
- * User is logged in to the Inventory Management System.

****Test Data:****

- * Search query: "Electronics"

****Test Steps:****

1. Navigate to the Inventory Search page.
2. Enter "Electronics" in the search query field.
3. Click the "Search" button.

****Postconditions:****

- * A list of inventory items categorized under "Electronics" is displayed in the search results.

****Expected Result:**** The system successfully retrieves and displays all inventory items belonging to the "Electronics" category.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional, Acceptance Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_INV_CLS_005**

****Test Case Title:** Verify that invalid category names cannot be created.**

****Test Case Description:** This test case verifies that the system prevents the creation of categories with invalid or inappropriate names.**

****Test Suite:** Inventory Management System**

****Test Priority:** Medium**

****Preconditions:****

- * User is logged in to the Inventory Management System.
- * User has sufficient permissions to create new categories.

****Test Data:****

- * Invalid category name: "123" (Only numbers)
- * Invalid category name: "!" (Only special characters)

****Test Steps:****

1. Navigate to the Inventory Classification section of the system.
2. Click on the "Create New Category" button.
3. Enter "123" as the category name and click "Save".
4. Attempt to create a category with "!" as the name and click "Save".

****Postconditions:****

- * An error message is displayed, preventing the creation of categories with only numbers or special characters.

****Expected Result:**** The system prevents the creation of invalid category names and displays an appropriate error message.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional, Acceptance Testing

****Test Case Approach:**** Negative

Data - 180

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Reordering

Feature description -

Users can set up automatic reorder points and reorder quantities for inventory items based on demand forecasts, lead times, and safety stock levels. This feature streamlines the procurement process, ensures timely replenishment of inventory, and prevents stockouts or excess inventory buildup.

Userstory title -

As a user, I want to set up automatic reorder points for inventory items so that I can ensure timely replenishment and prevent stockouts.

Acceptance criteria -

['Users can configure reorder points and reorder quantities.', 'The system uses demand forecasts and lead times to calculate reorder points.', 'The system generates reorder alerts when inventory reaches reorder points.', 'Users can review and adjust reorder settings.', 'Reorder settings can be saved and applied to inventory items.']

Generated Test Cases:

Here are five test cases for the "Inventory Reordering" feature based on your provided criteria:

****Test Case 1:****

*** **Test Case ID:** TCM-INV-001**

*** **Test Case Title:** Verify that users can configure reorder points for inventory items.**

* **Test Case Description:** This test case verifies the user's ability to set reorder points for individual inventory items within the system.

* **Test Suite:** Inventory Management

* **Test Priority:** High

* **Preconditions:**

- * An administrator user is logged in.

- * An inventory item exists in the system.

* **Test Data:** A predefined reorder point value.

* **Test Steps:**

1. Navigate to the 'Inventory' tab.
2. Select the desired inventory item.
3. Locate the 'Reorder Point' field.
4. Enter the predefined reorder point value.
5. Save the changes.

* **Postconditions:**

- * The reorder point for the selected inventory item is updated in the system.

* **Expected Result:** The reorder point is successfully configured for the inventory item.

Test Case 2:

* **Test Case ID:** TCM-INV-002

* **Test Case Title:** Verify that the system calculates reorder points based on demand forecast and lead time.

* **Test Case Description:** This test case ensures that the system accurately calculates reorder points by considering historical demand data and lead times for product procurement.

* **Test Suite:** Inventory Management

* **Test Priority:** High

****Preconditions:****

- * An administrator user is logged in.
- * An inventory item exists in the system with historical demand data and a defined lead time.

****Test Data:****

- * Historical demand data for the inventory item.
- * Lead time for product procurement.

****Test Steps:****

1. Navigate to the 'Inventory' tab.
2. Select the inventory item.
3. Verify the system-calculated reorder point is displayed.

****Postconditions:****

- * No specific postconditions.

****Expected Result:**** The system-calculated reorder point aligns with the expected value based on the provided demand data and lead time.

****Test Case 3:****

****Test Case ID:**** TCM-INV-003

****Test Case Title:**** Verify that the system generates reorder alerts when inventory reaches reorder points.

****Test Case Description:**** This test case confirms that the system sends timely alerts to relevant users when inventory levels for a specific item reach the configured reorder point.

****Test Suite:**** Inventory Management

****Test Priority:**** High

****Preconditions:****

- * An administrator user is logged in.
- * An inventory item exists with a configured reorder point.

- * The inventory quantity for the item is reduced below the reorder point.

- * System notifications are enabled.

* **Test Data:**

- * Number of inventory units below the reorder point.

* **Test Steps:**

1. Decrease the inventory quantity of the item until it falls below the configured reorder point.
2. Verify that a reorder alert is generated within the system.
3. Confirm the alert includes the relevant details (inventory item, reorder point, current stock).

* **Postconditions:**

- * No specific postconditions.

* **Expected Result:** A reorder alert is triggered successfully when the inventory quantity reaches the reorder point.

Test Case 4:

* **Test Case ID:** TCM-INV-004

* **Test Case Title:** Verify that users can review and adjust reorder settings

* **Test Case Description:** This test case validates the user's ability to review existing reorder settings for inventory items and make modifications as needed.

* **Test Suite:** Inventory Management

* **Test Priority:** Medium

* **Preconditions:**

- * A user with appropriate privileges is logged in.
- * At least one inventory item with configured reorder settings exists.

* **Test Data:**

* A modified reorder point value.

* **Test Steps:**

1. Access the inventory detail page for the desired item.
2. Locate the 'Reorder Settings' section.
3. Review the existing reorder point, reorder quantity, and other settings.
4. Change the reorder point to the modified value.
5. Save the changes.

* **Postconditions:**

* The reorder settings are updated in the system.

* **Expected Result:** The user can successfully modify the reorder settings for the inventory item.

Test Case 5:

* **Test Case ID:** TCM-INV-005

* **Test Case Title:** Verify that reorder settings can be saved and applied to inventory items.

* **Test Case Description:** This test case ensures that changes made to reorder settings are persistent and automatically applied to the relevant inventory items.

* **Test Suite:** Inventory Management

* **Test Priority:** Medium

* **Preconditions:**

* A user with appropriate privileges is logged in.

* An inventory item exists.

* **Test Data:**

* A new reorder point value.

* **Test Steps:**

1. Navigate to the 'Inventory' tab.
2. Select the desired inventory item.
3. Configure the reorder point to the new value.
4. Save the changes.

* **Postconditions:**

* **Expected Result:** The updated reorder point is saved and applied to the inventory item, updating any related alerts or notifications.

Data - 181

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Supplier Management

Feature description -

The system manages supplier information such as contact details, pricing agreements, and lead times for inventory items sourced from external suppliers. This feature helps users maintain good supplier relationships, negotiate favorable terms, and track supplier performance.

Userstory title -

As a user, I want to manage supplier information so that I can maintain good supplier relationships and track supplier performance.

Acceptance criteria -

['Users can add and edit supplier contact details.', 'The system allows setting up and managing pricing agreements.', 'Lead times for inventory items can be tracked.', 'Users can review and update supplier performance data.', 'Supplier information is saved and accessible in the system.']

Generated Test Cases:

Inventory Management System: Supplier Management Test Cases

****Feature:**** Supplier Management

****User Story:**** As a user, I want to manage supplier information so that I can maintain good supplier relationships and track supplier performance.

****Test Case 1:****

| Field | Value |
|--------------------|---|
| | |
| Test Case ID: | TMS-SUP-001 |
| Test Case Title | Verify that users can add a new supplier |
| Test Suite | Supplier Management |
| Test Priority | High |
| Preconditions | ? User is logged in with appropriate permissions. ? No existing supplier with the same name. |
| Test Data | ? Supplier Name: Acme Suppliers ? Contact Person: John Doe ? Phone Number: (555) 123-4567 ? Email: john.doe@acme.com |
| Test Steps | 1. Navigate to the "Suppliers" section of the Inventory Management System. 2. Click on the "Add New Supplier" button. 3. Enter the supplier information (Name, Contact Person, Phone Number, Email) as specified in the Test Data. 4. Click the "Save" button. 5. Verify that the new supplier is displayed in the supplier list. |
| Postconditions | ? Supplier record is saved in the database. ? System displays a success message upon completion. |
| Expected Result | A new supplier record with the provided information is successfully added to the system. |
| Severity | Critical |
| Priority | High |
| Type of Testing | Functional Testing |
| Test Case Approach | Positive |

****Test Case 2:****

| Field | Value |
|-------|-------|
|-------|-------|

| | |
|--|---------------------|
| ----- ----- | |
| Test Case ID: TMS-SUP-002 | |
| Test Case Title Verify that users can edit supplier contact details | |
| Test Suite | Supplier Management |
| Test Priority High | |
| Preconditions ? User is logged in with appropriate permissions. ? A supplier with existing contact details is present in the system. | |
| Test Data ? Supplier Name: Acme Suppliers ? Updated Contact Person: Jane Doe ? Updated Phone Number: (555) 987-6543 | |
| Test Steps 1. Navigate to the "Suppliers" section of the Inventory Management System. 2. Select the supplier record (Acme Suppliers). 3. Click on the "Edit" button. 4. Update the contact details (Contact Person and Phone Number) as specified in the Test Data. 5. Click the "Save Changes" button. 6. Verify that the updated contact details are displayed for the supplier. | |
| Postconditions ? Supplier record is updated in the database. ? System displays a success message upon completion. | |
| Expected Result The supplier's contact details are successfully updated in the system. | |
| Severity | Minor |
| Priority | Medium |
| Type of Testing Functional Testing | |
| Test Case Approach Positive | |

****Test Case 3:****

| | | |
|---|-------|--|
| Field | Value | |
| ----- ----- | | |
| Test Case ID: TMS-SUP-003 | | |
| Test Case Title Verify that pricing agreements can be set up for a supplier | | |

| | |
|--------------------|--|
| Test Suite | Supplier Management |
| Test Priority | High |
| Preconditions | ? User is logged in with appropriate permissions. ? A supplier record exists in the system. |
| Test Data | ? Supplier Name: Acme Suppliers ? Item: Widget A ? Unit Price: \$10.00 |
| Test Steps | 1. Navigate to the "Suppliers" section of the Inventory Management System. 2. Select the supplier record (Acme Suppliers). 3. Click on the "Pricing Agreements" tab. 4. Click on the "Add Pricing Agreement" button. 5. Enter the Item Name (Widget A) and Unit Price (\$10.00) as specified in the Test Data. 6. Click the "Save" button. 7. Verify that the pricing agreement is displayed for the selected supplier and item. |
| Postconditions | ? Pricing agreement is saved in the database. ? System displays a success message upon completion. |
| Expected Result | A new pricing agreement for Unit Price is successfully set up for the chosen supplier and item. |
| Severity | Critical |
| Priority | High |
| Type of Testing | Functional Testing |
| Test Case Approach | Positive |

Test Case 4:

| Field | Value |
|-----------------|--|
| ----- | ----- |
| Test Case ID: | TMS-SUP-004 |
| Test Case Title | Verify that lead times can be tracked for a supplier |
| Test Suite | Supplier Management |
| Test Priority | High |

| Preconditions | ? User is logged in with appropriate permissions. ? A supplier record exists in the system. ? An inventory item with a lead time is added. |

| Test Data | ? Supplier Name: Acme Suppliers ? Item: Widget A ? Lead Time: 5 days |

| Test Steps | 1. Navigate to the "Suppliers" section of the Inventory Management System. 2. Select the supplier record (Acme Suppliers). 3. Click on the "Inventory Items" tab. 4. Select the item (Widget A) 5. Find and enter the lead time of 5 days. 6. Click the "Save" button. 7. Verify that the lead time is correctly displayed for Widget A. |

| Postconditions | ? Supplier inventory item record is updated in the database. ? System displays a success message upon completion. |

| Expected Result | The lead time for the specified item is successfully tracked for the chosen supplier. |

| Severity | Minor |

| Priority | Medium |

| Type of Testing | Functional Testing |

| Test Case Approach | Positive |

****Test Case 5:****

| Field | Value |

|-----|-----|

| Test Case ID: | TMS-SUP-005 |

| Test Case Title | Verify that users can review and update supplier performance data |

| Test Suite | Supplier Management |

| Test Priority | High |

| Preconditions | ? User is logged in with appropriate permissions. ? A supplier record exists in the system. ? Supplier performance data is available for review. |

| Test Data | ? Supplier Name: Acme Suppliers ? On-time Delivery Performance: 95% ? Quality Issue Rate: 2% |

| Test Steps | 1. Navigate to the "Suppliers" section of the Inventory Management System. 2. Select the supplier record (Acme Suppliers). 3. Click on the "Performance" tab. 4. Verify that the existing supplier performance data is displayed. 5. Update the On-time Delivery Performance to 90% and the Quality Issue Rate to 3%. 6. Click the "Save Changes" button. 7. Verify that the updated performance data is saved and displayed for the supplier. |

| Postconditions | ? Supplier performance record is updated in the database. ? System displays a success message upon completion. |

| Expected Result | Supplier performance data can be successfully reviewed and updated in the system. |

| Severity | High |

| Priority | High |

| Type of Testing | Functional Testing, Acceptance Testing |

| Test Case Approach | Positive, Negative |

Data - 182

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and

supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Purchase Order Management

Feature description -

Users can create, track, and manage purchase orders for inventory replenishment from suppliers. This feature facilitates communication with suppliers, ensures accurate and timely order placement, and provides visibility into the status of purchase orders from creation to fulfillment.

Userstory title -

As a user, I want to create and manage purchase orders so that I can ensure accurate and timely inventory replenishment.

Acceptance criteria -

['Users can create new purchase orders.', 'The system allows tracking of purchase orders from creation to fulfillment.', 'Users can edit and update purchase orders as needed.', 'Purchase orders include supplier information and order details.', 'Purchase orders can be saved and retrieved from the system.']

Generated Test Cases:

Test Cases for Purchase Order Management Feature

Here are 5 detailed test cases for the "Purchase Order Management" feature of the Inventory Management System, following the provided template:

Test Case ID: TC_PO01

Test Case Title: Verify that a user can create a new purchase order.

Test Case Description: This test case verifies the functionality of creating a new purchase order in the

system. It includes filling in required fields, selecting a supplier, and adding order items with quantities.

****Test Suite:**** Purchase Order Management

****Test Priority:**** High

****Preconditions:****

- * A logged-in user with sufficient permissions to create purchase orders.
- * At least one supplier has been added to the system.
- * Inventory items are available in the system.

****Test Data:****

- * Supplier ID: Supplier1
- * Order Details: 10 units of Item A, 5 units of Item B

****Test Steps:****

1. Navigate to the "Purchase Orders" section within the Inventory Management System.
2. Click the "Create New Purchase Order" button.
3. Select Supplier1 from the dropdown list.
4. Enter the required order details, including order date, expected delivery date, and notes.
5. Add Item A with a quantity of 10 units and Item B with a quantity of 5 units to the order.
6. Review the order summary and save the purchase order.

****Postconditions:****

- * A new purchase order is created and displayed.

****Expected Result:**** The system successfully creates a new purchase order with the specified details.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case ID:** TC_PO02**

****Test Case Title:** Verify that purchase order status can be tracked from creation to fulfillment.**

****Test Case Description:** This test case verifies the system's ability to track the status of a purchase order throughout its lifecycle, from "Created" to "Fulfilled."**

****Test Suite:** Purchase Order Management**

****Test Priority:** High**

****Preconditions:****

* A purchase order is created successfully (Refer to TC_PO01).

****Test Data:****

* No new data required, utilizing the purchase order created in TC_PO01.

****Test Steps:****

1. Navigate to the "Purchase Orders" section and locate the created purchase order.
2. Observe the initial status of the purchase order, which should be "Created."
3. Simulate an update in the purchase order status, for example, to "Pending Approval" through system functionalities or administrator actions.
4. Observe the update in purchase order status to "Pending Approval."
5. Simulate further updates in the purchase order status, such as "Approved," "Ordered," "Shipped," and finally "Fulfilled."

****Postconditions:****

- * The purchase order status is updated accurately in the system.

****Expected Result:**** The purchase order status changes to reflect each stage of its lifecycle accurately.

****Severity:**** High

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case ID:**** TC_PO03

****Test Case Title:**** Verify that a user can edit and update an existing purchase order.

****Test Case Description:**** This test case verifies the functionality of modifying existing purchase order details, such as quantities, order dates, and supplier information.

****Test Suite:**** Purchase Order Management

****Test Priority:**** Medium

****Preconditions:****

- * A purchase order is created successfully (Refer to TC_PO01).

****Test Data:****

- * Modified quantity for Item A: 15 units.

****Test Steps:****

1. Navigate to the "Purchase Orders" section and locate the created purchase order.
2. Click on the "Edit" option for the purchase order.

3. Change the quantity of Item A to 15 units.
4. Review the updated order summary.
5. Save the changes to the purchase order.

****Postconditions:****

- * The purchase order details are updated with the new quantity.

****Expected Result:**** The system successfully updates the purchase order with the changed information.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case ID:**** TC_PO04

****Test Case Title:**** Verify that purchase orders include supplier information and order details.

****Test Case Description:**** This test case ensures that all required information about the purchase order, including supplier details and order items, is accurately captured and displayed.

****Test Suite:**** Purchase Order Management

****Test Priority:**** High

****Preconditions:****

- * A purchase order is created successfully (Refer to TC_PO01).

****Test Data:****

- * No new data required, utilizing the purchase order created in TC_PO01

****Test Steps:****

1. Navigate to the "Purchase Orders" section and locate the created purchase order.
2. Open the details view of the purchase order.
3. Verify the following information is displayed: Supplier name, supplier ID, order date, expected delivery date, notes, list of order items with quantities, unit prices, and total order value.

****Postconditions:****

- * All required information is displayed correctly.

****Expected Result:**** The system displays all relevant supplier and order details accurately.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case ID:**** TC_PO05

****Test Case Title:**** Verify that purchase orders can be saved and retrieved from the system.

****Test Case Description:**** This test case verifies the system's ability to store and retrieve purchase orders from the database.

****Test Suite:**** Purchase Order Management

****Test Priority:**** Medium

****Preconditions:****

- * A purchase order is created successfully (Refer to TC_PO01).

****Test Data:****

- * No new data required, utilizing the purchase order created in TC_PO01.

****Test Steps:****

1. Navigate to the "Purchase Orders" section and locate the created purchase order.
2. Log out of the system.
3. Log back into the system with the same user credentials.
4. Navigate to the "Purchase Orders" section again.
5. Verify that the previously created purchase order is still present and can be viewed.

****Postconditions:****

- * The system successfully retrieves the previously saved purchase order.

****Expected Result:**** The system correctly saves and retrieves the purchase order from the database.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

Data - 183

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and

supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Sales Order Management

Feature description -

The system manages sales orders received from customers, including order processing, order fulfillment, and order status tracking. This feature helps users manage order fulfillment workflows efficiently, prioritize orders based on demand or urgency, and provide customers with accurate order status updates.

Userstory title -

As a user, I want to manage sales orders so that I can ensure efficient order fulfillment and provide accurate status updates to customers.

Acceptance criteria -

['Users can create new sales orders.', 'The system allows tracking of sales orders from creation to fulfillment.', 'Users can edit and update sales orders as needed.', 'Sales orders include customer information and order details.', 'Sales orders can be saved and retrieved from the system.']

Generated Test Cases:

Test Cases for Sales Order Management

****Project:**** Inventory Management System

****Feature:**** Sales Order Management

****User Story:**** As a user, I want to manage sales orders so that I can ensure efficient order fulfillment and provide accurate status updates to customers.

Test Case 1

****Test Case ID:**** TC_SOM_001

****Test Case Title:**** Verify that users can create new sales orders.

****Test Case Description:**** This test case verifies that a user can successfully create a new sales order with valid customer and product information

****Test Suite:**** Sales Order Management

****Test Priority:**** High

****Preconditions:****

* User is logged in with administrator privileges.

* A sufficient number of products are available in the inventory.

****Test Data:****

* Valid customer details (name, address, contact information)

* Valid product details (name, quantity, price)

****Test Steps:****

1. Navigate to the "Sales Orders" section within the system.
2. Click the "Create New Order" button.
3. Enter the customer details in the designated fields.
4. Select the desired products from the product catalog and input the desired quantity for each.
5. Review the order summary and click "Save" to finalize the order.

****Postconditions:****

* A new sales order record is created in the system with the provided customer and product information.

****Expected Result:**** The system successfully creates the new sales order and displays a confirmation

message.

****Severity:** Blocker**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Test Case 2

****Test Case ID:** TC_SOM_002**

****Test Case Title:** Verify that the system allows tracking of sales orders from creation to fulfillment.**

****Test Case Description:** This test case verifies the system's ability to track the status of a sales order from creation to fulfillment.**

****Test Suite:** Sales Order Management**

****Test Priority:** High**

****Preconditions:****

* A valid sales order is created (refer to TC_SOM_001).

****Test Data:****

* Sales order ID from TC_SOM_001

****Test Steps:****

1. Navigate to the "Sales Orders" section within the system.
2. Search for the created sales order using its ID.

3. Observe the order status and its details.

4. Simulate the order fulfillment process (e.g., mark as "Shipped") through the system interface.

****Postconditions:****

* The order status in the system is updated accordingly.

****Expected Result:**** The system accurately reflects the order status changes throughout its lifecycle, from "Created" to "Shipped."

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 3

****Test Case ID:**** TC_SOM_003

****Test Case Title:**** Verify that users can edit and update sales orders as needed.

****Test Case Description:**** This test case verifies if a user can modify existing orders with new information or adjustments.

****Test Suite:**** Sales Order Management

****Test Priority:**** Medium

****Preconditions:****

* A valid sales order is created (refer to TC_SOM_001).

****Test Data:****

* Sales order ID from TC_SOM_001

* Modified product quantity

****Test Steps:****

1. Navigate to the "Sales Orders" section within the system.

2. Search for the created sales order using its ID.

3. Modify the quantity of an existing product in the order.

4. Click "Update" button to save the changes.

****Postconditions:****

* The order details are reflected with the updated product quantity.

****Expected Result:**** The system successfully updates the sales order with the modified product quantity. The changes are saved and reflected in the order details.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 4

****Test Case ID:** TC_SOM_004**

****Test Case Title:** Verify that sales orders include customer information and order details.**

****Test Case Description:** This test case ensures that the system captures and displays all necessary customer and order details.**

****Test Suite:** Sales Order Management**

****Test Priority:** High**

****Preconditions:****

* User is logged in with administrator privileges.

* A valid sales order is created (refer to TC_SOM_001).

****Test Data:** The Sales Order details from TC_SOM_001**

****Test Steps:****

1. Navigate to the "Sales Orders" section within the system.

2. Search for the sales order using its ID.

3. Verify that the following details are correctly displayed:

* Customer name

* Customer address

* Customer contact information

* Order date

* Order ID

* Line item details (product name, quantity, price, total)

* Order total

****Postconditions:****

* The details of the sales order remain intact

****Expected Result:**** All customer and order details are accurately displayed on the sales order record.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive, Confirmation

Test Case 5

****Test Case ID:**** TC_SOM_005

****Test Case Title:**** Verify that sales orders can be saved and retrieved from the system.

****Test Case Description:**** This test case verifies the ability to save a sales order and retrieve it later.

****Test Suite:**** Sales Order Management

****Test Priority:**** Medium

****Preconditions:****

* User is logged in with administrator privileges.

****Test Data:****

* Valid customer details

* Valid product details

****Test Steps:****

1. Create a new sales order (as per TC_SOM_001) but do not save it.
2. Log out of the system.
3. Log back into the system with the same credentials.
4. Navigate to the ?Sales Orders? section.
5. Search for the unsaved sales order using relevant criteria (e.g., customer name, date).

****Postconditions:****

- * The unsaved sales order is retrieved.

****Expected Result:**** The system retrieves the unsaved sales order, allowing the user to continue editing and save it.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Data - 184

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Valuation

Feature description -

The system calculates the value of inventory on hand using various valuation methods such as FIFO (First In, First Out) or LIFO (Last In, First Out). This feature provides users with accurate inventory valuation for financial reporting purposes, tax compliance, and decision-making related to inventory investments.

Userstory title -

As a user, I want to calculate inventory valuation so that I can make informed decisions related to inventory investments and financial reporting.

Acceptance criteria -

['Users can select valuation methods (FIFO, LIFO, etc.).', 'The system calculates inventory valuation accurately.', 'Valuation results are saved and accessible for reporting.', 'Users can generate valuation reports for financial purposes.', 'Valuation data is updated in real-time as inventory changes.']

Generated Test Cases:

Test Cases for Inventory Valuation Feature

****Test Case ID:** ITC-IV-001**

****Test Case Title:** Verify that the user can select different valuation methods (FIFO, LIFO, etc.)**

****Test Case Description:** This test case verifies the functionality of selecting different inventory valuation methods (FIFO, LIFO) from the available options within the system.**

****Test Suite:** Inventory Management**

****Test Priority:** High**

****Preconditions:****

- * System is successfully logged in.
- * Inventory items are added to the system.
- * A default valuation method is set.

****Test Data:****

- * List of available valuation methods (FIFO, LIFO, weighted Average etc.)

****Test Steps:****

1. Navigate to the "Inventory Valuation" section.
2. Click on the "Valuation Method" dropdown menu.
3. Select different valuation methods from the list (FIFO, LIFO, etc.)
4. Observe that the system reflects the selected valuation method.
5. Compare the calculated valuation with expected results based on the chosen method.

****Postconditions:****

- * The selected valuation method remains active.
- * Data visualization for inventory valuation reflects the chosen method.

****Expected Result:** The system should allow users to select different valuation methods effectively, ensuring proper inventory valuation calculations.**

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** ITC-IV-002**

****Test Case Title:** Verify that the system calculates inventory valuation accurately based on selected method.**

****Test Case Description:** This test case verifies the accuracy of inventory valuation calculations based on different pre-defined methods (FIFO, LIFO, Weighted Average).**

****Test Suite:** Inventory Management**

****Test Priority:** High**

****Preconditions:****

- * System is successfully logged in.
- * A sufficient number of inventory items are added with varying purchase prices and quantities.
- * A specific valuation method is selected.

****Test Data:****

- * Inventory item details (description, quantity, purchase date, purchase price).
- * Expected valuation result based on the chosen method and historical transactions.

****Test Steps:****

1. Prepare a test scenario with inventory transactions reflecting specific purchase and sale activities.
2. Select the desired valuation method (FIFO, LIFO, etc.).
3. Execute the system's inventory valuation calculation based on the selected method.

4. Compare the calculated valuation results with the expected values derived manually.
5. Repeat steps 1-4 with different inventory scenarios and valuation methods.

****Postconditions:****

- * The system provides accurate inventory valuation calculated according to the chosen method.
- * No exceptions or errors should occur during the calculation process.

****Expected Result:**** The system should consistently calculate accurate inventory valuation across various scenarios and selected methods.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Accuracy Testing

****Test Case Approach:**** Positive, Regression

****Test Case ID:**** ITC-IV-003

****Test Case Title:**** Verify that valuation results are saved and accessible for reporting.

****Test Case Description:**** This test case verifies that the system saves calculated inventory valuations and makes them accessible for generating reports.

****Test Suite:**** Inventory Management

****Test Priority:**** Medium

****Preconditions:****

- * System is successfully logged in.
- * Inventory items are added with purchase history.
- * Inventory valuation is calculated using a specific method.

****Test Data:****

- * Expected transaction details used for valuation calculation.

****Test Steps:****

1. Navigate to the "Inventory Valuation" section and select the desired valuation method.
2. Perform inventory transactions (purchases, sales) to populate the system with recent data.
3. Initiate a valuation calculation and observe the results being displayed.
4. Generate a valuation report based on the specific period and inventory items.
5. Verify that the report displays accurate valuation details corresponding to the calculated values.

****Postconditions:****

- * The system maintains a record of calculated valuations for previous periods.
- * Report generation functionality enables accessing valuation data according to specific criteria.

****Expected Result:**** The system should successfully save and retrieve inventory valuation data, allowing users to generate comprehensive reports for analysis.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Regression, Reporting Testing

****Test Case Approach:**** Positive

Please note that these are example test cases, and a comprehensive test suite would include additional cases covering edge cases, negative scenarios, performance, security, and other relevant aspects.

Data - 185

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Forecasting

Feature description -

Users can generate inventory forecasts and demand projections based on historical sales data, seasonal trends, and market analysis. This feature helps users anticipate future inventory requirements, optimize inventory levels, and plan inventory investments more effectively to meet customer demand.

Userstory title -

As a user, I want to generate inventory forecasts so that I can anticipate future inventory requirements and optimize inventory levels.

Acceptance criteria -

['Users can access historical sales data for forecasting.', 'The system allows generating forecasts based on seasonal trends and market analysis.', 'Forecasting results are saved and accessible for planning.', 'Users can

generate custom reports for forecast analysis.', 'Forecast data is updated in real-time as new sales data becomes available.']

Generated Test Cases:

Test Cases for Inventory Forecasting Feature

Project Name: Inventory Management System

Feature Name: Inventory Forecasting

User Story Title: As a user, I want to generate inventory forecasts so that I can anticipate future inventory requirements and optimize inventory levels.

Test Case 1:

Test Case ID: TC_INV_001

Test Case Title: Verify that historical sales data is accessible for forecasting.

Test Case Description: This test case verifies the user's ability to access historical sales data from the system for generating forecasts.

Test Suite: Inventory Forecasting

Test Priority: High

Preconditions:

- * User is logged into the system with appropriate permissions.
- * At least 3 months of historical sales data are available in the system.

Test Data:

- * Product IDs with sales history
- * Date range for historical sales data

****Test Steps:****

1. Navigate to the Inventory Forecasting module.
2. Select the desired product(s) for forecasting.
3. Choose a date range for historical sales data to be displayed.
4. Verify that the system displays accurate historical sales data for the selected products and date range.

****Postconditions:****

- * Historical sales data is closed and data is saved.

****Expected Result:****

- * System successfully displays historical sales data, allowing the user to access and analyze it for forecasting purposes.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Test Case 2:

****Test Case ID:** TC_INV_002**

****Test Case Title:** Verify that the system allows generating forecasts based on seasonal trends and market analysis.**

****Test Case Description:**** This test case verifies if the system can generate forecasts taking into account seasonal trends and market analysis.

****Test Suite:**** Inventory Forecasting

****Test Priority:**** High

****Preconditions:****

- * User is logged into the system with appropriate permissions.
- * Historical sales data with seasonal patterns is available in the system.
- * User has access to market analysis data (external or integrated).

****Test Data:****

- * Product with known seasonal patterns
- * 2 years of historical sales data
- * Market analysis data for the product

****Test Steps:****

1. Navigate to the Inventory Forecasting module.
2. Select the product with known seasonal trends.
3. Choose the forecast timeframe (e.g., next 6 months).
4. Select the option to include seasonal trends and market analysis in the forecasting.
5. Generate the forecast.

****Postconditions:****

- * Forecast report is saved and displayed.

****Expected Result:****

* System generates a forecast based on historical sales data, incorporating seasonal patterns and market analysis.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Test Case 3:

****Test Case ID:** TC_INV_003**

****Test Case Title:** Verify that forecasting results are saved and accessible for planning.**

****Test Case Description:** This test case verifies the system's ability to save generated forecasts and allow users to access them for planning purposes.**

****Test Suite:** Inventory Forecasting**

****Test Priority:** Medium**

****Preconditions:****

* User is logged into the system with appropriate permissions.

* At least one forecast has been generated.

****Test Data:****

* Generated forecast report

****Test Steps:****

1. Navigate to the Inventory Forecasting module.
2. Access the saved forecasts section.
3. Select the previously generated forecast report.
4. Verify that the selected forecast report is displayed, including all relevant details.

****Postconditions:****

* Previous forecast is accessed and displayed

****Expected Result:****

* System successfully displays the saved forecast report, enabling users to review and utilize the data for planning.

****Severity:**** Moderate

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Test Case 4:

****Test Case ID:**** TC_INV_004

****Test Case Title:**** Verify that users can generate custom reports for forecast analysis.

****Test Case Description:**** This test case verifies the user's ability to generate custom reports based on forecast data.

****Test Suite:**** Inventory Forecasting

****Test Priority:**** Medium

****Preconditions:****

- * User is logged into the system with appropriate permissions.
- * One or more forecasts have been generated.

****Test Data:****

- * Selected date range
- * Specific product(s)

****Test Steps:****

1. Navigate to the Inventory Forecasting module.
2. Access the "Generate Report" option.
3. Select the desired date range for the report.
4. Choose the specific product(s) to be included in the report.
5. Generate the custom report.
6. Verify that the report displays the selected data and meets the user's criteria.

****Postconditions:****

- * Custom report is generated and saved.

****Expected Result:****

- * System generates a custom report displaying the selected forecast data within the chosen date range and for the specified products.

****Severity:** Moderate**

****Priority:** Medium**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

Test Case 5:

****Test Case ID:** TC_INV_005**

****Test Case Title:** Verify that forecast data is updated in real-time as new sales data becomes available.**

****Test Case Description:** This test case verifies that the system updates forecast data in real-time based on newly entered sales transactions.**

****Test Suite:** Inventory Forecasting**

****Test Priority:** High**

****Preconditions:****

* User is logged into the system with appropriate permissions.

* Existing forecast data is available.

* Ability to manually input sales transactions.

****Test Data:****

* Simulated sales data

* Existing forecast

****Test Steps:****

1. Generate a forecast for a period of time.

2. Simulate making a new sale within the same timeframe used for the forecast.

3. Observe the impact of the new sales data on the existing forecast.
4. Verify that the forecast data reflects the update based on the newly simulated sales transaction.

****Postconditions:****

* New sales transaction is recorded.

****Expected Result:****

* System updates the forecast data in real-time, incorporating the effects of the new sales transaction.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Performance Testing

****Test Case Approach:**** Positive

Data - 186

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Batch and Lot Tracking

Feature description -

The system tracks inventory items by batch or lot numbers, enabling traceability and accountability throughout the supply chain. This feature is particularly useful for industries such as food and pharmaceuticals where product safety and compliance with regulatory requirements are critical.

Userstory title -

As a user, I want to track inventory items by batch or lot numbers so that I can ensure traceability and accountability throughout the supply chain.

Acceptance criteria -

['Users can assign batch or lot numbers to inventory items.', 'The system tracks batch or lot numbers accurately.', 'Users can generate reports based on batch or lot tracking.', 'Batch or lot tracking data is saved and accessible.', 'Users can trace the history and movement of inventory items by batch or lot numbers.']

Generated Test Cases:

Test Cases for Batch and Lot Tracking Feature

****Test Case ID:**** IMS-BLT-001

****Test Case Title:**** Verify that users can assign batch or lot numbers to inventory items.

****Test Case Description:**** This test case verifies the functionality of assigning unique batch or lot numbers to individual inventory items within the system. It ensures that the system accepts valid batch/lot numbers and prevents duplicates.

****Test Suite:**** Inventory Management - Batch and Lot Tracking

****Test Priority:**** High

****Preconditions:****

- * The user is logged into the system with sufficient permissions.
- * An inventory item exists within the system with a non-zero quantity.

****Test Data:****

- * Valid batch/lot numbers (e.g., BLT12345, LOT-ABC12)
- * Duplicate batch/lot numbers

****Test Steps:****

1. Navigate to the inventory management module.
2. Select the inventory item to be assigned with a batch/lot number.
3. Input a valid batch/lot number in the designated field.
4. Save the changes.
5. Verify that the assigned batch/lot number is correctly displayed for the inventory item.
6. Attempt to enter a duplicate batch/lot number for the same item and observe the system's response.

****Postconditions:****

- * The inventory item with the assigned batch/lot number remains accessible.
- * The system records the batch/lot number associated with the item.

****Expected Result:****

- * The system successfully assigns a unique batch/lot number to the inventory item.
- * The system prevents the assignment of duplicate batch/lot numbers for the same item, displaying an appropriate error message.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing, System Testing**

****Test Case Approach:** Positive & Negative**

****Test Case ID:** IMS-BLT-002**

****Test Case Title:** Verify that the system tracks batch or lot numbers accurately.**

****Test Case Description:** This test case verifies the system's accuracy in tracking assigned batch/lot numbers across various inventory movements. It ensures that batch/lot information is not altered or lost during transactions.**

****Test Suite:** Inventory Management - Batch and Lot Tracking**

****Test Priority:** High**

****Preconditions:****

* A previously tested inventory item with a unique batch/lot number exists.

****Test Data:****

* A new purchase order with items of the same SKU but different batches/lots.

****Test Steps:****

1. Receive a new purchase order with items of the same SKU but different batch/lot numbers.
2. Record the receipt of the inventory items in the system.
3. Search for the specific inventory item using its SKU.
4. Verify that the system correctly displays all associated batch/lot numbers, including the original and newly received ones.

5. Conduct sales transactions for individual items, referencing specific batch/lot numbers.
6. Retrieve sales history and confirm that the correct batch/lot numbers are associated with each sale.

****Postconditions:****

- * The inventory item remains updated with all associated batch/lot numbers.
- * History records of sales and purchases reflect accurate batch/lot tracking.

****Expected Result:****

- * The system accurately tracks and displays all assigned batch/lot numbers, including those added through incoming orders and consumed through sales.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing, System Testing**

****Test Case Approach:** Positive**

****Test Case ID:** IMS-BLT-003**

****Test Case Title:** Verify that users can generate reports based on batch or lot tracking data.**

****Test Case Description:** This test case verifies the ability to generate reports summarizing information related to specific batch/lot numbers, such as inventory levels, sales, movement history, and potential expiry dates.**

****Test Suite:** Inventory Management - Batch and Lot Tracking**

****Test Priority:** Medium**

****Preconditions:****

- * Inventory items with assigned batch/lot numbers exist within the system.

* Sales and purchase transactions have been recorded with specific batch/lot number references.

****Test Data:****

* A range of batch/lot numbers

* A specific SKU

****Test Steps:****

1. Navigate to the reporting module.
2. Select a relevant report type, such as "Inventory by Batch", "Sales History by Lot", or "Product Movement Summary".
3. Input specific batch/lot numbers or a desired SKU.
4. Generate the report.
5. Review the generated report for accuracy and completeness.
6. Verify that the report presents relevant data related to the selected batch/lot numbers/SKU, including quantities, dates, and transaction details.

****Postconditions:****

* The chosen report is successfully generated.

****Expected Result:****

* The system generates accurate and relevant reports based on the selected batch/lot numbers or SKU. Data within the reports reflects transaction history and inventory levels tied to the specified batches/lots.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, System Testing

****Test Case Approach:** Positive**

****Test Case ID:** IMS-BLT-004**

****Test Case Title:** Verify that batch or lot tracking data is saved and accessible**

****Test Case Description:** This test case validates the system's capability to store batch/lot tracking information persistently and retrieve it accurately when needed.**

****Test Suite:** Inventory Management - Batch and Lot Tracking**

****Test Priority:** Medium**

****Preconditions:****

- * Inventory items with assigned batch/lot numbers exist in the system.
- * The system is functioning correctly.
- * A new user logs in to the system.

****Test Data:****

- * Inventory item with a specific batch/lot number

****Test Steps:****

1. Log out of the system.
2. Log back into the system as a different user.
3. Search for the inventory item with the specific batch/lot number.
4. Verify that the system displays accurate batch/lot tracking data associated with the item.

****Postconditions:****

- * Batch/lot tracking data is accessible to other users.

****Expected Result:****

* The system stores batch/lot tracking information persistently. It is accessible to authorized users regardless of login sessions.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** System Testing, Data Persistence Testing**

****Test Case Approach:** Positive**

****Test Case ID:** IMS-BLT-005**

****Test Case Title:** Verify that users can trace the history and movement of inventory items by batch or lot numbers.**

****Test Case Description:** This test case tests the ability to track the movement and location of inventory items across various transactions.**

****Test Suite:** Inventory Management - Batch and Lot Tracking**

****Test Priority:** High**

****Preconditions:****

* Inventory items with assigned batch/lot numbers exist within the system.

* Both sales and purchase transactions have been recorded with specific batch/lot number references.

****Test Data:****

* A specific batch/lot number

****Test Steps:****

1. Initiate a search for the specific batch/lot number.
2. Review the transaction history associated with the batch/lot number.
3. Verify the details of each transaction, including date, time, location, quantity moved, and associated inventory location.
4. Trace the movement of the batch/lot number from its initial receipt through various transactions (e.g., transfers, sales, returns).
5. Confirm that the system accurately reflects the current status and location of the batch/lot number.

****Postconditions:****

- * The system provides a complete history of the batch/lot number's movements.

****Expected Result:****

- * The system efficiently traces the entire movement history of a batch/lot number, providing a detailed record of its transactions and location changes.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing

****Test Case Approach:**** Positive

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Serial Number Tracking

Feature description -

Users can track individual inventory items by serial numbers, recording unique identifiers for each item to facilitate traceability and warranty management. This feature is essential for industries such as electronics or equipment manufacturing where product serial numbers are used for warranty claims or product recalls.

Userstory title -

As a user, I want to track inventory items by serial numbers so that I can ensure traceability and manage warranties effectively.

Acceptance criteria -

['Users can assign serial numbers to inventory items.', 'The system tracks serial numbers accurately.', 'Users can generate reports based on serial number tracking.', 'Serial number tracking data is saved and accessible.', 'Users can trace the history and movement of inventory items by serial numbers.']

Generated Test Cases:

Test Cases for Serial Number Tracking Feature

****Project Name:** Inventory Management System**

****Feature Name:** Serial Number Tracking**

****Test Case 1:****

*** **Test Case ID:** TC_SNT_001**

*** **Test Case Title:** Verify that serial numbers can be assigned to inventory items.**

*** **Test Case Description:** This test case verifies the functionality of assigning unique serial numbers to individual inventory items during the addition process.**

*** **Test Suite:** Serial Number Tracking**

*** **Test Priority:** High**

*** **Preconditions:****

*** An inventory item with a valid product code and description exists.**

*** The user is an authorized administrator with access to add inventory items.**

*** **Test Data:** Sample serial number (e.g., "SN12345").**

*** **Test Steps:****

1. Log in to the Inventory Management System as an administrator.

2. Navigate to the "Add Inventory Item" page.

3. Input valid details for the product code, description, and quantity.

4. In the "Serial Number" field, enter the sample serial number "SN12345".

5. Click the "Add Item" button.

*** **Postconditions:****

*** The new inventory item is added successfully to the system.**

*** **Expected Result:** The system should accept the serial number and save it as a unique identifier for the added inventory item.**

*** **Severity:** Critical**

*** **Priority:** High**

* **Type of Testing:** Functional Testing

* **Test Case 2:**

* **Test Case ID:** TC_SNT_002

* **Test Case Title:** Verify that the system tracks serial numbers accurately.

* **Test Case Description:** This test case verifies the system's ability to accurately store and retrieve serial numbers for inventory items.

* **Test Suite:** Serial Number Tracking

* **Test Priority:** High

* **Preconditions:**

- * An inventory item with a unique serial number has been added (using TC_SNT_001).

- * The user has access to view inventory details.

* **Test Data:** Sample serial number "SN12345"

* **Test Steps:**

1. Log in to the Inventory Management System.
2. Navigate to the "Inventory List" page.
3. Locate the inventory item with serial number "SN12345".
4. Click on the item to view its details.

* **Postconditions:**

- * The inventory details page is displayed.

* **Expected Result:** The displayed inventory details should accurately show the assigned serial number "SN12345".

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

****Test Case 3:****

*** **Test Case ID:** TC_SNT_003**

*** **Test Case Title:**** Verify that users can generate reports based on serial number tracking.

*** **Test Case Description:**** This test case verifies the system's capability to generate reports filtered by serial numbers, allowing users to analyze and track specific items.

*** **Test Suite:**** Serial Number Tracking

*** **Test Priority:**** Medium

*** **Preconditions:****

- * Multiple inventory items with unique serial numbers have been added.

- * The user has access to generate reports.

*** **Test Data:****

- * A specific serial number range to search within.

*** **Test Steps:****

1. Log in to the Inventory Management System.
2. Navigate to the "Reports" section.
3. Select the "Serial Number Report" option.
4. Enter the desired serial number range.
5. Click the "Generate Report" button.

*** **Postconditions:****

- * The system generates a report displaying inventory information filtered by the selected serial numbers.

*** **Expected Result:**** The report should accurately showcase details (e.g., quantity, location, movement history) of the inventory items matching the specified serial numbers.

*** **Severity:**** Major

*** **Priority:**** Medium

*** **Type of Testing:**** Functional Testing

****Test Case 4:****

*** **Test Case ID:** TC_SNT_004**

*** **Test Case Title:** Verify that serial number tracking data is saved and accessible.**

*** **Test Case Description:** This test case ensures the persistence and retrieval of serial number tracking data.**

*** **Test Suite:** Serial Number Tracking**

*** **Test Priority:** High**

*** **Preconditions:****

- * An inventory item with a unique serial number has been added and modified (e.g., moved to a different location).

- * The system is functioning normally.

*** **Test Data:** Sample serial number "SN12345" (from TC_SNT_001 and TC_SNT_002)**

*** **Test Steps:****

1. Log in to the Inventory Management System.
2. Locate the inventory item with serial number "SN12345".
3. Observe the initial location and other relevant data associated with the item.
4. Log out of the system.
5. Log back in as the same user.
6. Locate the inventory item with serial number "SN12345" again.

*** **Postconditions:****

- * The inventory details page is displayed.

*** **Expected Result:** The system should correctly display the updated location and any other modified data for the inventory item with serial number "SN12345".**

*** **Severity:** Critical**

*** **Priority:** High**

*** **Type of Testing:** Functional Testing**

****Test Case 5:****

*** **Test Case ID:** TC_SNT_005**

*** **Test Case Title:**** Verify that users can trace the history and movement of inventory items by serial numbers.

*** **Test Case Description:**** This test case checks the functionality of tracking the history of an item's movements, logged by serial number.

*** **Test Suite:**** Serial Number Tracking

*** **Test Priority:**** Medium

*** **Preconditions:****

- * An inventory item with a unique serial number has been repeatedly moved between different locations within the system.

- * The user has access to view the history of inventory movements.

*** **Test Data:**** Sample serial number "SN12345"

*** **Test Steps:****

1. Log in to the Inventory Management System.
2. Locate the inventory item with serial number "SN12345".
3. Click on the option to view the item's history or movement log.

*** **Postconditions:****

- * A history log of the item's movements is displayed.

*** **Expected Result:**** The history log should accurately show the dates, times, and locations of each movement performed on the inventory item with serial number "SN12345".

*** **Severity:**** Major

*** **Priority:**** Medium

*** **Type of Testing:**** Functional Testing

Data - 188

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Auditing

Feature description -

The system supports inventory auditing processes such as cycle counting, physical inventory counts, and reconciliation of inventory records. This feature helps users identify discrepancies between physical inventory counts and system records, investigate root causes of inventory discrepancies, and maintain inventory accuracy.

Userstory title -

As a user, I want to perform inventory auditing so that I can identify discrepancies and maintain inventory accuracy.

Acceptance criteria -

['Users can perform cycle counting and physical inventory counts.', 'The system reconciles inventory records with physical counts.', 'Users can generate audit reports for inventory discrepancies.', 'Audit data is saved and accessible for future reference.', 'Users can investigate and resolve inventory discrepancies.']

Generated Test Cases:

Inventory Management System - Test Cases for Inventory Auditing Feature

****Feature:**** Inventory Auditing

****User Story:**** As a user, I want to perform inventory auditing so that I can identify discrepancies and maintain inventory accuracy.

****Test Case 1****

*** **Test Case ID:**** TC_AUD_001

*** **Test Case Title:**** Verify that users can perform cycle counting.

*** **Test Case Description:**** This test case verifies the functionality of cycle counting in the Inventory Auditing feature. It simulates the process of counting a specific subset of inventory items and recording the counts within the system.

*** **Test Suite:**** Inventory Auditing

*** **Test Priority:**** High

*** **Preconditions:****

- * The user has an account with appropriate permissions to perform inventory audits.
- * A sample set of inventory items with different quantities is available.
- * **Test Data:** A list of specific inventory items for cycle counting, with their target quantities.
- * **Test Steps:**
 1. Navigate to the Inventory Auditing module.
 2. Select "Cycle Counting" from the available options.
 3. Choose the sample set of inventory items from the catalog.
 4. Manually count the selected items and enter the count values in the system.
 5. Verify that the system accurately updates the inventory levels based on the entered counts.
- * **Postconditions:**
 - * Cycle count data is saved.
 - * Any discrepancies between physical and recorded counts are flagged.
- * **Expected Result:** The system should successfully allow users to perform cycle counting, record accurate inventory counts, and highlight any discrepancies.
- * **Severity:** Critical
- * **Priority:** High
- * **Type of Testing:** Functional Testing

Test Case 2

- * **Test Case ID:** TC_AUD_002
- * **Test Case Title:** Verify that users can perform physical inventory counts.
- * **Test Case Description:** This test case verifies the functionality of performing a complete physical inventory count against existing records.
- * **Test Suite:** Inventory Auditing
- * **Test Priority:** High
- * **Preconditions:**

* The user has an account with appropriate permissions to perform inventory audits.

* All inventory items are accessible for physical counting.

* **Test Data:** A template for recording physical inventory counts, list of all inventory items.

* **Test Steps:**

1. Navigate to the Inventory Auditing module.

2. Select "Physical Inventory Count" from the available options.

3. Select the required warehouse or location for the count.

4. Physically count each item in the selected area, recording the count in the provided template.

5. Input the counted quantities into the system.

* **Postconditions:**

* Physical count data is saved.

* Any discrepancies between physical and recorded counts are flagged and analyzed.

* **Expected Result:** The system should successfully allow users to perform physical inventory counts, record accurate counts, identify discrepancies, and display them for further investigation.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

Test Case 3

* **Test Case ID:** TC_AUD_003

* **Test Case Title:** Verify that the system reconciles inventory records with physical counts.

* **Test Case Description:** This test case verifies that the system accurately reconciles inventory records with physical count results, showing differences and allowing for analysis.

* **Test Suite:** Inventory Auditing

* **Test Priority:** High

* **Preconditions:**

* Physical inventory count data (from TC_AUD_002) is successfully recorded in the system.

* **Test Data:** N/A (Using data from previous test case)

* **Test Steps:**

1. Access the Inventory Auditing module and navigate to the "Reconciliation" section.
2. Select the completed physical inventory count data.
3. Review the reconciliation report, which compares physical counts with system records.
4. Analyze the discrepancies highlighted in the report, including quantity differences and locations.

* **Postconditions:**

* The reconciliation report is generated and displayed.

* Users can navigate to item-specific details within the discrepancies report.

* **Expected Result:** The system should accurately reconcile inventory records with physical counts, presenting a clear comparison and detailed discrepancies report for user analysis.

Test Case 4

* **Test Case ID:** TC_AUD_004

* **Test Case Title:** Verify that users can generate audit reports for inventory discrepancies.

* **Test Case Description:** This test case verifies the ability to generate comprehensive audit reports focusing on identified discrepancies, aiding in investigation and resolution.

* **Test Suite:** Inventory Auditing

* **Test Priority:** Medium

* **Preconditions:**

* Previous test cases (TC_AUD_001, TC_AUD_002, TC_AUD_003) have been executed.

* **Test Data:** Specific filter criteria for generating the audit report (e.g., date range, item type, location).

* **Test Steps:**

1. Navigate to the Inventory Auditing module's "Reports" section.
2. Select the "Inventory Discrepancies Report" template.

3. Input the desired filter criteria to narrow down the report scope.

4. Generate the report and review the generated data.

* **Postconditions:**

* An audit report is generated specific to the defined criteria.

* **Expected Result:** The system should generate an accurate and comprehensive audit report highlighting specific inventory discrepancies based on the selected criteria. The report should include relevant information like item names, quantity differences, locations, and timestamps.

Test Case 5

* **Test Case ID:** TC_AUD_005

* **Test Case Title:** Verify that audit data is saved and accessible for future reference.

* **Test Case Description:** This test case verifies that cycle counting and physical inventory count data is stored in the system for later analysis and tracking.

* **Test Suite:** Inventory Auditing

* **Test Priority:** Medium

* **Preconditions:**

* Previous test cases have been executed successfully.

* **Test Data:** Specific cycle count or physical count data from earlier executions.

* **Test Steps:**

1. Log in as a user with appropriate permissions.

2. Navigate to the "History" or "Audit Logs" section within the Inventory Auditing module.

3. Locate and open the recorded cycle count or physical inventory count data from a previous session.

4. Review the data, verifying accuracy and completeness.

* **Postconditions:**

* Audit data remains accessible for viewing and analysis.

* **Expected Result:** The system should successfully retrieve and display the previously recorded audit data, allowing users to review and analyze past inventory auditing activities.

Data - 189

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Analytics and Reporting

Feature description -

Users can generate custom reports and dashboards to analyze inventory data, track key performance indicators (KPIs), and gain insights into inventory trends and patterns. This feature provides users with actionable intelligence to make informed decisions and optimize inventory management strategies.

Userstory title -

As a user, I want to generate custom reports and dashboards so that I can analyze inventory data and make informed decisions.

Acceptance criteria -

['Users can create custom reports based on inventory data.', 'The system allows generating dashboards with key performance indicators (KPIs).', 'Reports and dashboards are saved and accessible for future reference.', 'Users can analyze inventory trends and patterns using the generated reports.', 'Report and dashboard data is updated in real-time as inventory changes.']

Generated Test Cases:

Test Cases for Inventory Analytics and Reporting Feature

****Test Case ID:**** TC_IA01

****Test Case Title:**** Verify that users can create custom reports based on inventory data.

****Test Case Description:****

This test case verifies the system's ability to allow users to generate reports based on specific inventory data, including product details, stock levels, movement history, and supplier information.

****Test Suite:**** Inventory Analytics and Reporting

****Test Priority:**** High

****Preconditions:****

- * A user account with sufficient permissions to generate reports is logged in.
- * Sample inventory data is available in the system.

****Test Data:****

- * Product IDs, categories, suppliers, dates, and quantity information.

****Test Steps:****

1. Navigate to the report generation section within the Inventory Analytics section.
2. Select the desired report type (e.g., stock level report, purchase history report).
3. Configure report parameters, including product category, supplier, date range, and other relevant criteria.

4. Generate the report.

5. Verify that the generated report displays the specified inventory data according to the selected parameters.

****Postconditions:****

* The generated report is saved for future reference.

* No errors or unexpected results are encountered during report generation.

****Expected Result:****

A customized report displaying the selected inventory data based on the user's specified parameters is generated successfully.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_IA02**

****Test Case Title:** Verify that the system allows generating dashboards with key performance indicators (KPIs).**

****Test Case Description:****

This test case verifies the system's capability to create dashboards with pre-defined KPIs related to inventory management, such as stock turnover rate, average inventory value, and days of supply.

****Test Suite:** Inventory Analytics and Reporting**

****Test Priority:** High**

****Preconditions:****

- * A user account with sufficient permissions to create dashboards is logged in.
- * Sample inventory data is available in the system.

****Test Data:****

- * No test data needed

****Test Steps:****

1. Navigate to the dashboard creation section within the Inventory Analytics section.
2. Select a pre-defined KPI template or create a custom dashboard.
3. Choose relevant KPIs to display on the dashboard, such as stock turnover rate, average inventory value, and days of supply.
4. Customize dashboard layout and appearance according to design guidelines.
5. Save the created dashboard.

****Postconditions:****

- * The created dashboard is saved for future reference and accessibility.

****Expected Result:****

A visually appealing and informative dashboard displaying the chosen KPIs related to inventory performance is generated successfully.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_IA03**

****Test Case Title:** Verify that reports and dashboards are saved and accessible for future reference.**

****Test Case Description:****

This test case verifies that users can save generated reports and dashboards, and these saved items are accessible for future use.

****Test Suite:** Inventory Analytics and Reporting**

****Test Priority:** Medium**

****Preconditions:****

- * A user account with sufficient permissions to access past reports and dashboards is logged in.
- * Two reports and dashboards are generated during previous test executions (see TC_IA01 and TC_IA02).

****Test Data:****

- * No test data needed

****Test Steps:****

1. Log out from the system.
2. Log back into the system with the same user account.
3. Navigate to the previously generated reports and dashboards.
4. Verify that all previously saved reports and dashboards are accessible.
5. Open one saved report and one saved dashboard.
6. Verify that they display the expected data and layout.

****Postconditions:****

* No data loss is encountered when accessing saved reports and dashboards.

****Expected Result:****

All saved reports and dashboards are accessible and display the expected content when accessed later.

****Severity:**** Minor

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_IA04

****Test Case Title:**** Verify that users can analyze inventory trends and patterns using generated reports.

****Test Case Description:****

This test case assesses the system's ability to assist users in analyzing inventory trends and patterns by providing features within generated reports or dashboards for identifying trends in stock levels, sales data, and supplier performance.

****Test Suite:**** Inventory Analytics and Reporting

****Test Priority:**** Medium

****Preconditions:****

* A user account with sufficient permissions to access historical inventory data is logged in.

* Sample inventory data with varying trends over time is available in the system.

****Test Data:****

- * Historical inventory data covering a significant time period.

****Test Steps:****

1. Generate a report focusing on inventory levels over a specific period (e.g., last six months).
2. Utilize the report's filtering options to analyze trends based on different product categories or suppliers.
3. Identify trends in stock levels, such as increasing or decreasing demand, seasonal variations, or product obsolescence.
4. Verify that the report provides visual aids (e.g., charts or graphs) to clearly display these trends.

****Postconditions:****

- * The user understands the identified inventory trends.

****Expected Result:****

The generated report allows users to effectively analyze inventory trends and patterns by visualizing and filtering historical data, leading to insights into inventory management strategies.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case ID:**** TC_IA05

****Test Case Title:**** Verify that report and dashboard data is updated in real-time as inventory changes.

****Test Case Description:****

This test case ensures that the user-generated reports and dashboards reflect any immediate changes made to the inventory data in real-time.

****Test Suite:**** Inventory Analytics and Reporting

****Test Priority:**** High

****Preconditions:****

- * A user account with sufficient permissions to access and modify inventory data is logged in.
- * A report and a dashboard are generated with real-time data.

****Test Data:****

- * Inventory data with updates planned (e.g., new stock arrival, product sold).

****Test Steps:****

1. Navigate to the user-generated report and dashboard.
2. Verify that the data displayed reflects the current real-time inventory status.
3. Simulate a change in inventory data (e.g., add 10 units to a product's stock).
4. Observe the report and dashboard in real-time to confirm the updated inventory data reflects the change.

****Postconditions:****

- * No delays or discrepancies are observed between real-time inventory changes and data displayed in reports and dashboards.

****Expected Result:****

The report and dashboard data is updated dynamically in real-time, ensuring that users always have access to

the most current inventory information.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

Data - 190

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Tracking

Feature description -

The system tracks inventory levels in real-time, monitoring stock quantities, locations, and movements of items within the inventory. This feature enables businesses to maintain accurate inventory records, prevent

stockouts, and optimize inventory replenishment processes.

Userstory title -

As a user, I want to track inventory levels in real-time so that I can maintain accurate inventory records and prevent stockouts.

Acceptance criteria -

['Users can monitor inventory levels in real-time.', 'The system provides accurate stock quantities and locations.', 'Users can track the movements of items within the inventory.', 'Inventory data is updated in real-time with every transaction.', 'Users receive alerts for stockouts and replenishment needs.']

Generated Test Cases:

Test Cases for Inventory Tracking Feature

****User Story Title:**** As a user, I want to track inventory levels in real-time so that I can maintain accurate inventory records and prevent stockouts.

****Test Case ID:**** IT-01

****Test Case Title:**** Verify that the system displays accurate real-time inventory levels.

****Test Case Description:**** This test case verifies that the system accurately reflects the current inventory levels for all items. This includes checking quantity, location, and any changes made through transactions.

****Test Suite:**** Functionality - Inventory Tracking

****Test Priority:**** High

****Preconditions:****

- * Relevant products are added to the inventory system with initial stock quantities.
- * The system is running and connected to the backend database.

****Test Data:****

* Predefined product list with different quantities and locations.

****Test Steps:****

1. Login to the Inventory Management System as an authorized user.
2. Navigate to the Inventory Tracking module.
3. Select a product from the list displayed.
4. Verify that the displayed inventory level matches the expected quantity and location.
5. Simulate a purchase transaction for the selected product.
6. Verify that the inventory level is updated in real-time to reflect the purchase.

****Postconditions:****

- * The system remains responsive and accessible.

****Expected Result:**** The system accurately displays real-time inventory levels, reflecting all current transactions and maintaining data consistency.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing

****Test Case Approach:**** Positive

****Test Case ID:**** IT-02

****Test Case Title:**** Verify that the system tracks movements of items within the inventory.

****Test Case Description:**** This test case ensures that the system properly logs and displays the movement history of items within the inventory. This includes all transactions like purchases, sales, transfers, and

adjustments.

****Test Suite:**** Functionality - Inventory Tracking

****Test Priority:**** High

****Preconditions:****

- * Relevant products are available in the inventory system.
- * The system is running and connected to the backend database.

****Test Data:**** Predefined inventory for a product and transaction data for purchase, sale, transfer.

****Test Steps:****

1. Login to the Inventory Management System as an authorized user.
2. Navigate to the Inventory Tracking module and select a product.
3. View the product's movement history.
4. Verify that all past transactions (purchase, sale, transfer) are accurately recorded in the system.
5. Simulate a new transfer move the product to a different location.
6. View the updated movement history and verify that the transfer is reflected.

****Postconditions:****

- * The system remains responsive and accessible.

****Expected Result:**** The system accurately tracks the movement of items within the inventory, providing a comprehensive history of all transactions.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, System Testing, Regression Testing

****Test Case Approach:** Positive**

****Test Case ID:** IT-03**

****Test Case Title:** Verify that users receive stockout alerts for critical items.**

****Test Case Description:** This test case verifies that the system sends timely alerts to users when stock levels of critical items fall below a predefined threshold (replenishment point).**

****Test Suite:** Functionality - Inventory Tracking**

****Test Priority:** High**

****Preconditions:****

- * A list of critical items is defined within the inventory management system with associated replenishment thresholds.
- * The system is configured to send notifications via the chosen channel (email, SMS, in-app).
- * Sufficient inventory is purchased to simulate a stockout event.

****Test Data:****

- * Predefined list of critical items and corresponding minimum stock levels.

****Test Steps:****

1. Login to the Inventory Management System as an authorized user.
2. Simulate a high volume sales scenario to deplete inventory for a critical item below its replenishment threshold.
3. Verify that the system generates and sends a stockout alert for the critical item to relevant users.

****Postconditions:****

* The system remains responsive and accessible.

****Expected Result:**** The system efficiently alerts users about stockouts for critical items reaching their defined replenishment points through the configured notification channels.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing, Regression Testing

****Test Case Approach:**** Negative

****Complete the remaining test cases following the provided template. Remember to cover all the acceptance criteria with detailed, actionable, and relevant test cases.****

Data - 191

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to

reduce stockouts and overstocking.

Feature name -

Barcode Scanning

Feature description -

Users can scan barcode labels attached to inventory items using handheld barcode scanners or mobile devices equipped with barcode scanning capabilities. This feature facilitates fast and accurate data entry, simplifies inventory management tasks such as receiving, picking, and counting, and reduces manual errors.

Userstory title -

As a user, I want to scan barcode labels on inventory items so that I can facilitate fast and accurate data entry and reduce manual errors.

Acceptance criteria -

['Users can scan barcode labels using handheld scanners or mobile devices.', 'The system recognizes and records scanned barcodes accurately.', 'Users can manage inventory tasks (receiving, picking, counting) using scanned barcodes.', 'Barcode scanning data is saved and accessible for reporting.', 'Users receive notifications for any scanning errors or issues.']

Generated Test Cases:

Here are 5 detailed test cases for the "Barcode Scanning" feature of the Inventory Management System, following your template:

****Test Case 1****

*** **Test Case ID:** TC_Barcode_001**

*** **Test Case Title:** Verify that users can scan barcodes using handheld scanners.**

*** **Test Case Description:** This test case verifies the functionality of scanning barcode labels using a handheld barcode scanner. It aims to ensure the system accurately recognizes and records the scanned barcode data.**

* **Test Suite:** Barcode Scanning

* **Test Priority:** High

* **Preconditions:**

- * A valid inventory item with a unique barcode label is available.

- * A functional handheld barcode scanner is connected to the system.

* **Test Data:** Barcode Label with valid inventory item details

* **Test Steps:**

1. Power on the handheld barcode scanner and ensure it is connected to the system.
2. Position the barcode scanner over the barcode label of the inventory item.
3. Scan the barcode.
4. Verify that the system displays the corresponding inventory item details (e.g., item name, quantity, SKU).

* **Postconditions:** Scanner remains connected to the system.

* **Expected Result:** The system should correctly recognize and record the scanned barcode, displaying the corresponding inventory item information accurately.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, System Testing

* **Test Case Approach:** Positive

Test Case 2

* **Test Case ID:** TC_Barcode_002

* **Test Case Title:** Verify that barcodes scanned via mobile devices are processed correctly.

* **Test Case Description:** This test case verifies the functionality of scanning barcode labels using a mobile device with a built-in or external barcode scanning feature.

* **Test Suite:** Barcode Scanning

* **Test Priority:** High

* **Preconditions:**

- * A valid inventory item with a unique barcode label is available.

- * A mobile device with a functioning barcode scanner is available and connected to the system.

* **Test Data:** Barcode Label with valid inventory item details.

* **Test Steps:**

1. Open the Inventory Management System application on the mobile device.
2. Position the mobile device's camera over the barcode label of the inventory item.
3. Scan the barcode.
4. Verify that the system displays the corresponding inventory item details.

* **Postconditions:** Mobile device remains connected to the system.

* **Expected Result:** The system should accurately recognize and record the scanned barcode data, displaying the corresponding inventory item information.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, System Testing

* **Test Case Approach:** Positive

****Test Case 3****

* **Test Case ID:** TC_Barcode_003

* **Test Case Title:** Verify that invalid or damaged barcodes are handled gracefully.

* **Test Case Description:** This test case verifies the system's response to invalid or damaged barcode scans. It aims to ensure that the system provides appropriate error notifications and prevents data corruption.

* **Test Suite:** Barcode Scanning

* **Test Priority:** High

****Preconditions:****

- * A barcode label with an invalid or damaged barcode is available
- * A handheld barcode scanner or mobile device with functionality

****Test Data:**** Invalid or damaged barcode label.

****Test Steps:****

1. Scan the invalid or damaged barcode.
2. Observe the system's response.
3. Verify that the system displays an error message indicating the issue (e.g., "Invalid Barcode").
4. Verify that the system does not record any incorrect data.

****Postconditions:**** Scanner remains connected to the system.

****Expected Result:**** The system should display a clear error message and not attempt to process the invalid barcode data.

****Severity:**** Major

****Priority:**** High

****Type of Testing:**** Functional Testing, Error Handling Testing

****Test Case Approach:**** Positive/Negative

****Test Case 4****

****Test Case ID:**** TC_Barcode_004

****Test Case Title:**** Verify that barcode scanning data is saved and accessible for reporting.

****Test Case Description:**** This test case confirms that barcode scanning data is correctly stored in the system and can be retrieved for reporting purposes.

****Test Suite:**** Barcode Scanning, Reporting

* **Test Priority:** Medium

* **Preconditions:**

- * A valid inventory item with a unique barcode label is available.

- * The system is initialized.

* **Test Data:** Barcode Label with valid inventory item details

* **Test Steps:**

1. Scan the barcode of the inventory item multiple times.
2. Navigate to the reporting section of the system.
3. Generate a report that includes barcode scanning data (e.g., date, time, scanned item).
4. Verify that the scanned data for the chosen item is accurately reflected in the report.

* **Postconditions:** System remains in reporting view.

* **Expected Result:** The system should correctly save the barcode scanning data and generate accurate reports reflecting the scanned barcodes and associated inventory data.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing, Data Validation Testing

* **Test Case Approach:** Positive

**Test Case 5 **

* **Test Case ID:** TC_Barcode_005

* **Test Case Title:** Verify that users receive notifications for barcode scanning errors.

* **Test Case Description:** This test case verifies the system's ability to send timely and informative notifications when barcode scanning errors occur.

* **Test Suite:** Barcode Scanning, Error Handling

* **Test Priority:** Medium

* **Preconditions:**

* A barcode label with an invalid or missing barcode is available

* Users have notifications enabled.

* **Test Data:** Invalid/Missing barcode label

* **Test Steps:**

1. Attempt to scan the invalid or missing barcode.
2. Observe the system's notification mechanisms (e.g., pop-up message, email).
3. Verify the notification message clearly states the type of error (e.g., "Invalid barcode", "Barcode not found").

* **Postconditions:** User remains aware of the error.

* **Expected Result:** The system should promptly display an informative notification message to the user, alerting them to the barcode scanning error and providing context for resolving the issue.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing, Error Handling Testing

* **Test Case Approach:** Positive/Negative

These test cases provide a starting point for thoroughly testing the "Barcode Scanning" feature of your Inventory Management System.

Let me know if you want me to elaborate on any particular aspect of a test case or have any specific scenarios you'd like to explore further!

Data - 192

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Classification

Feature description -

The system categorizes inventory items into different classes or categories based on attributes such as product type, SKU, or supplier. This feature helps users organize and manage inventory more effectively, improve search and retrieval processes, and analyze inventory data by category.

Userstory title -

As a user, I want to categorize inventory items into different classes so that I can organize and manage inventory more effectively.

Acceptance criteria -

['Users can create and manage inventory categories.', 'The system allows categorizing inventory items based on attributes (product type, SKU, supplier).', 'Categorized inventory data is saved and accessible.', 'Users can generate reports based on inventory categories.', 'Category data is updated in real-time as inventory changes.']

Generated Test Cases:

Test Cases for Inventory Classification Feature

****Project Name:** Inventory Management System**

****Feature Name:** Inventory Classification**

****User Story:** As a user, I want to categorize inventory items into different classes so that I can organize and manage inventory more effectively.**

****Test Case 1:****

****Test Case ID:** TC_INV_CLASS_001**

****Test Case Title:** Verify that users can create new inventory categories.**

****Test Case Description:** This test case verifies the functionality for adding new inventory categories within the system. It will cover the input fields, naming conventions, and creation process.**

****Test Suite:** Inventory Management**

****Test Priority:** High**

****Preconditions:****

* User is logged in with appropriate permissions.

* No existing inventory categories are defined.

****Test Data:** Valid category names (e.g., "Electronics", "Consumables", "Furniture").**

****Test Steps:****

1. Navigate to the "Inventory Classification" section.
2. Click the "Add New Category" button.
3. Enter a valid category name in the provided field.
4. Click the "Save" button.

5. Verify that the new category is displayed in the list of existing categories.

****Postconditions:****

* New category is saved in the database.

****Expected Result:**** The system successfully creates a new inventory category with the provided name.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case 2:****

****Test Case ID:**** TC_INV_CLASS_002

****Test Case Title:**** Verify that categories can be categorized based on specified attributes.

****Test Case Description:**** This test case verifies the functionality of assigning inventory items to categories based on attributes like product type, SKU, and supplier.

****Test Suite:**** Inventory Management

****Test Priority:**** High

****Preconditions:****

* A new inventory category ("Electronics") is created.

****Test Data:****

* Inventory items with different attributes (product type, SKU, supplier).

****Test Steps:****

1. Navigate to the "Inventory" section.
2. Select an inventory item.
3. Navigate to the "Classification" tab.
4. Select the "Electronics" category from the dropdown menu.
5. Verify that the inventory item is now assigned to the "Electronics" category.

****Postconditions:****

* Inventory item is updated with category association.

****Expected Result:**** The system successfully assigns the inventory item to the selected category based on the specified attribute.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case 3:****

****Test Case ID:**** TC_INV_CLASS_003

****Test Case Title:**** Verify that categorized inventory data is saved and accessible.

****Test Case Description:**** This test case verifies the persistence of category information. It checks if the categories are saved after user interactions and can be retrieved correctly.

****Test Suite:**** Inventory Management

****Test Priority:**** Medium

****Preconditions:****

* Inventory items are categorized using "Electronics" and "Consumables" categories.

****Test Data:****

No test data needed.

****Test Steps:****

1. Log out of the system.
2. Log back in.
3. Navigate to the "Inventory Classification" section.
4. Verify that both "Electronics" and "Consumables" categories are displayed.

****Postconditions:****

* Categories are loaded from the database.

****Expected Result:**** The system retrieves and displays the previously defined categories

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case 4:****

****Test Case ID:** TC_INV_CLASS_004****

****Test Case Title:** Verify that users can generate reports based on inventory categories.**

****Test Case Description:** This test case ensures the system can generate reports filtered or grouped by inventory categories.**

****Test Suite:** Reporting & Analytics**

****Test Priority:** Medium**

****Preconditions:****

* Inventory items are categorized and have associated data (e.g., sales, purchase price).

****Test Data:****

* Date range for report generation.

****Test Steps:****

1. Navigate to the "Reports" section.
2. Select a report type that allows category filtering/grouping (e.g., "Inventory Summary").
3. Apply filters to select specific categories, like "Electronics."
4. Generate the report.

5. Verify the report displays only data for items belonging to the selected category.

****Postconditions:****

* Report is generated with filtered category data.

****Expected Result:**** The system generates a report that accurately reflects data for the selected inventory category(ies).

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case 5:****

****Test Case ID:**** TC_INV_CLASS_005

****Test Case Title:**** Verify that category data is updated in real-time as inventory changes.

****Test Case Description:**** This test case verifies the accuracy and timeliness of category-based inventory updates.

****Test Suite:**** Inventory Management

****Test Priority:**** High

****Preconditions:****

* An inventory item ("Laptop") is categorized as "Electronics".

****Test Data:****

* Changes in inventory quantity for "Laptop" (e.g., adding or removing items).

****Test Steps:****

1. Observe the initial category data ("Electronics") for the "Laptop" item.
2. Perform an action that affects the "Laptop" inventory (e.g., add 5 new Laptops, sell 2 Laptops).
3. Verify the category data ("Electronics") for "Laptop" is updated immediately to reflect the change in quantity.

****Postconditions:****

* Inventory data is synchronized with category information.

****Expected Result:**** The system accurately updates the "Electronics" category data in real-time to reflect any changes in the "Laptop" inventory.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive, Negative

Data - 193

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Stock Alerts and Notifications

Feature description -

Users receive alerts and notifications when inventory levels fall below predefined thresholds or when stock movements occur. This feature enables proactive inventory management, alerts users to potential stock shortages or overstocks, and helps prevent stockouts or excess inventory holding costs.

Userstory title -

As a user, I want to receive stock alerts and notifications so that I can manage inventory proactively and prevent stock shortages or overstocks.

Acceptance criteria -

['Users can set predefined thresholds for stock alerts.', 'The system sends alerts and notifications when inventory levels fall below thresholds.', 'Users receive notifications for stock movements.', 'Alert and notification data is saved and accessible for reporting.', 'Users can manage alert settings and preferences.']

Generated Test Cases:

Test Cases for Stock Alerts and Notifications Feature

****Project Name:** Inventory Management System**

****Feature Name:** Stock Alerts and Notifications**

****User Story:**** As a user, I want to receive stock alerts and notifications so that I can manage inventory proactively and prevent stock shortages or overstocks.

Test Case 1

****Test Case ID:** IMS-STA-001**

****Test Case Title:**** Verify that users can set predefined thresholds for stock alerts.

****Test Case Description:**** This test case verifies that the system allows users to define stock level thresholds for receiving alerts.

****Test Suite:**** Stock Alerts and Notifications Feature

****Test Priority:**** High

****Preconditions:****

* User is logged into the Inventory Management System.

****Test Data:****

* Various product IDs with different existing stock levels

* Thresholds for different products (e.g., 10, 20, 30 units)

****Test Steps:****

1. Navigate to the Inventory Management section and select a product.
2. Access the "Alert Settings" section for the selected product.

3. Enter a desired threshold value (e.g., 10 units) in the "Alert Threshold" field.
4. Save the changes.
5. Verify that the entered threshold is displayed correctly in the "Alert Threshold" field.

****Postconditions:****

* Threshold settings are saved for the selected product.

****Expected Result:**** User can successfully set a predefined threshold for stock alerts for the selected product.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** System Testing, Functional Testing

****Test Case Approach:**** Positive

Test Case 2

****Test Case ID:**** IMS-STA-002

****Test Case Title:**** Verify that the system sends alerts when inventory levels fall below thresholds.

****Test Case Description:**** This test case verifies that the system triggers an alert notification when a product's stock level drops below the predefined threshold.

****Test Suite:**** Stock Alerts and Notifications Feature

****Test Priority:**** High

****Preconditions:****

* User has set a stock alert threshold for a specific product (see Test Case 1).

* The product's current stock level is above the set threshold.

****Test Data:****

- * Product ID with an initial stock level above the set threshold
- * Value for stock level to trigger alert (e.g., set 10 units below threshold)

****Test Steps:****

1. Reduce the stock level of the selected product to fall below the set threshold (e.g., reduce from 20 units to 9 units).
2. Verify that the user receives an alert notification upon stock level decrease.

****Postconditions:****

- * Alert notification is received by the user.
- * Notification records are logged and accessible for reporting.

****Expected Result:**** The system successfully sends an alert notification to the user when stock levels for the specified product fall below the predefined threshold.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** System Testing, Functional Testing

****Test Case Approach:**** Positive

Test Case 3

****Test Case ID:**** IMS-STA-003

****Test Case Title:**** Verify that users receive notifications for stock movements.

****Test Case Description:**** This test case tests the system's ability to notify users about changes in product

stock levels, regardless of whether they cross a predefined threshold.

****Test Suite:**** Stock Alerts and Notifications Feature

****Test Priority:**** Medium

****Preconditions:****

* User is logged into the Inventory Management System.

****Test Data:****

* Existing product with a stock level

* Simulated stock movement (e.g., receiving 5 units, moving 10 units to a different location)

****Test Steps:****

1. Simulate a stock movement for the selected product (e.g., add/remove stock).
2. Verify that the user receives a notification about the stock movement.

****Postconditions:****

* Notification record is logged and accessible for reporting.

****Expected Result:**** The system sends a notification to the user upon any stock movement (addition or removal) for the selected product.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** System Testing, Functional Testing

****Test Case Approach:**** Positive

Test Case 4

****Test Case ID:**** IMS-STA-004

****Test Case Title:**** Verify that alert and notification data is saved and accessible for reporting.

****Test Case Description:**** This test case verifies the system's ability to store alert and notification data for later retrieval and analysis.

****Test Suite:**** Stock Alerts and Notifications Feature

****Test Priority:**** Medium

****Preconditions:****

- * Users have set stock alert thresholds.
- * Stock movements have occurred triggering alerts.

****Test Data:****

- * Historical stock data including stock movements and changes in stock levels

****Test Steps:****

1. Access the reporting module within the Inventory Management System.
2. Locate and select a report related to stock alerts and notifications.
3. Analyze the report data to verify it includes details of alert triggers, timestamps, product IDs involved, and associated stock levels.

****Postconditions:****

- * Notification report is generated and viewed.

****Expected Result:**** The system generates a report containing relevant data regarding triggered alerts and notifications, including timestamps, product IDs, stock levels, and other relevant information.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** System Testing, Functional Testing

****Test Case Approach:**** Positive

Test Case 5

****Test Case ID:**** IMS-STA-005

****Test Case Title:**** Verify that users can manage alert settings and preferences.

****Test Case Description:**** This test case verifies the ability for users to customize their notification preferences and manage alert settings.

****Test Suite:**** Stock Alerts and Notifications Feature

****Test Priority:**** Medium

****Preconditions:****

* User is logged into the Inventory Management System.

****Test Data:****

* Product

* Different notification channels (e.g., email, SMS, push notification)

* Notification frequency options (e.g., immediate, hourly, daily)

****Test Steps:****

1. Navigate to the "Alert Settings" or "Notification Preferences" section within the user profile.
2. Select a product and modify the alert threshold, notification channels, or frequency settings.
3. Save the changes.
4. Verify that the updated settings are reflected in the user's alert profile.

****Postconditions:****

- * Alert settings are updated for the selected product.

****Expected Result:**** The system successfully saves and applies the user's customized alert settings and preferences.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** System Testing, Functional Testing

****Test Case Approach:**** Positive

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Multi-location Inventory Management

Feature description -

The system supports management of inventory across multiple locations such as warehouses, stores, or distribution centers. This feature allows users to track inventory movements between locations, allocate stock to specific locations, and optimize inventory distribution to meet demand.

Userstory title -

As a user, I want to manage inventory across multiple locations so that I can optimize inventory distribution and meet demand effectively.

Acceptance criteria -

['Users can track inventory movements between locations.', 'The system allows allocating stock to specific locations.', 'Inventory data is updated in real-time across all locations.', 'Users can generate reports based on multi-location inventory data.', 'Users receive notifications for any discrepancies in multi-location inventory.']

Generated Test Cases:

Here are 5 test cases for the "Multi-location Inventory Management" feature, structured using the provided template:

****Test Case 1****

* **Test Case ID:** TC_MIMS_001

* **Test Case Title:** Verify that inventory movements between locations are tracked accurately.

* **Test Case Description:** This test case verifies the system's ability to record and display the movement of inventory between different locations. It will involve transferring inventory items from one location to another and confirming the updated stock levels in both locations.

* **Test Suite:** Multi-Location Inventory Management

* **Test Priority:** High

* **Preconditions:**

- * Two or more locations are created within the system.

- * Inventory items are available in at least one location.

* **Test Data:**

- * Product details (SKU, name, description, quantity)

- * Transaction details (date, time, origin location, destination location, quantity)

* **Test Steps:**

1. Login as a user with permission to manage inventory.

2. Navigate to the inventory management section and select the source location.

3. Select an inventory item and specify the quantity to transfer.

4. Choose the destination location and confirm the transfer.

5. Verify that the stock level of the selected item decreases in the source location.

6. Verify that the stock level of the selected item increases in the destination location by the specified quantity.

* **Postconditions:**

- * Updated inventory records are persistent across locations.

* **Expected Result:** Inventory movement is successfully recorded, and stock levels are updated accurately in both the source and destination locations.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, Integration Testing

Test Case 2

* **Test Case ID:** TC_MIMS_002

* **Test Case Title:** Verify that stock can be allocated to specific locations.

* **Test Case Description:** This test case confirms the system's capability to assign inventory to designated locations, ensuring specific stock is available at required points.

* **Test Suite:** Multi-Location Inventory Management

* **Test Priority:** High

* **Preconditions:**

- * Multiple locations are defined within the system.

- * Inventory items are available in the system.

* **Test Data:**

- * Product details (SKU, name, description, quantity)

- * Location-specific stock allocation details (location, quantity)

* **Test Steps:**

1. Login as a user with permission to manage inventory.
2. Navigate to the inventory management section.
3. Select an inventory item and navigate to its location allocation settings.
4. Allocate a specified quantity of the item to a chosen location.
5. Verify that the chosen location's stock for that item reflects the allocated quantity.

* **Postconditions:** Allocation remains persistent across all relevant locations.

* **Expected Result:** The system successfully allocates the specified inventory item quantity to the designated location, updating the stock levels accordingly.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, Data Validation Testing

Test Case 3

* **Test Case ID:** TC_MIMS_003

* **Test Case Title:** Verify that inventory data is updated in real-time across all locations.

* **Test Case Description:** This test case ensures that changes to inventory at one location are immediately reflected in other locations, maintaining consistency in the system.

* **Test Suite:** Multi-Location Inventory Management

* **Test Priority:** High

* **Preconditions:**

- * Multiple locations are defined in the system.
- * Multiple users are logged in with access to different locations.
- * Inventory items are available in at least one location.

* **Test Data:**

- * Transaction details (date, time, origin location, destination location, quantity)

* **Test Steps:**

1. User A modifies the stock level of an item at Location A.
2. User B simultaneously checks the stock level of the same item at Location B.
3. Verify that User B sees the updated stock level reflected in Location B.

* **Postconditions:** Inventory data synchronization remains consistent across all locations.

* **Expected Result:** Changes in inventory at one location are instantly reflected and visible to all other users across all connected locations.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, Real-Time Data Integrity Testing

****Test Case 4****

*** **Test Case ID:** TC_MIMS_004**

*** **Test Case Title:**** Verify that users can generate multi-location inventory reports.

*** **Test Case Description:**** This test case validates the system's ability to generate reports summarizing inventory data across multiple locations, ensuring comprehensive visibility.

*** **Test Suite:**** Multi-Location Inventory Management

*** **Test Priority:**** Medium

*** **Preconditions:****

- * Multiple locations are defined within the system.
- * Inventory items are available in at least two locations.

*** **Test Data:****

- * User role permissions
- * Date range for report generation

*** **Test Steps:****

1. Login as a user with permission to generate reports.
2. Navigate to the reporting section and select the "Multi-location Inventory" report.
3. Specify the desired date range for the report.
4. Generate the report and verify it includes inventory data from all selected locations.
5. Analyze the report for accurate data presentation, such as total stock, location-wise breakdowns, and trends.

*** **Postconditions:****

- * Report data remains accurate and accessible.

*** **Expected Result:**** The system successfully generates a comprehensive multi-location inventory report within the specified date range, presenting accurate data for all relevant locations.

*** **Severity:**** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing

Test Case 5

* **Test Case ID:** TC_MIMS_005

* **Test Case Title:** Verify that users receive notifications for inventory discrepancies across locations.

* **Test Case Description:** This test case confirms the system's ability to alert users about any inconsistencies or deviations in inventory data between different locations.

* **Test Suite:** Multi-Location Inventory Management

* **Test Priority:** Medium

* **Preconditions:**

- * Real-Time Data Synchronization is enabled.
- * User Notification settings are configured for inventory discrepancies.
- * Multiple locations are defined within the system.

* **Test Data:**

- * Inventory Threshold Levels

* **Test Steps:**

1. Manually adjust inventory stock levels at one location (Location A).
2. Simultaneously, initiate a transaction that should update a different location (Location B), creating a discrepancy.
3. Verify that the user receives a notification about the inventory discrepancy between Locations A and B.

* **Postconditions:**

- * Discrepancy is identified and marked for resolution.

* **Expected Result:** The system detects the inventory discrepancy promptly and sends a timely and

relevant notification to the designated user(s).

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing, Notification System Testing

Let me know if you need more extensive details, test scenarios, or variations in these test cases.

Data - 195

Project name -

Inventory Management System

Project description -

Build an inventory management system for tracking and managing inventory levels, stock movements, and supply chain operations. The system should include features like inventory tracking, barcode scanning, stock alerts and notifications, order management, supplier management, and reporting and analytics. Users should be able to monitor inventory levels in real-time, track sales and purchases, and optimize inventory levels to reduce stockouts and overstocking.

Feature name -

Inventory Reordering

Feature description -

Users can set up automatic reorder points and reorder quantities for inventory items based on demand forecasts, lead times, and safety stock levels. This feature streamlines the procurement process, ensures timely replenishment of inventory, and prevents stockouts or excess inventory buildup.

Userstory title -

As a user, I want to set up automatic reorder points and quantities so that I can streamline the procurement process and ensure timely replenishment of inventory.

Acceptance criteria -

['Users can set up automatic reorder points for inventory items.', 'The system calculates reorder quantities based on demand forecasts and lead times.', 'Reorder data is saved and accessible for future reference.', 'Users receive notifications when reorder points are reached.', 'Reorder data is updated in real-time as inventory levels change.']

Generated Test Cases:

Test Cases for Inventory Reordering Feature

Here are 5 detailed test cases for the "Inventory Reordering" feature of the Inventory Management System, based on the provided user story and acceptance criteria.

****Test Case 1:****

****Test Case ID:**** TC_INV_001

****Test Case Title:**** Verify that users can set up automatic reorder points for inventory items.

****Test Case Description:**** This test case verifies the ability of a user to define a reorder point for an inventory item within the system. It covers the functionality of setting different reorder points for various inventory items.

****Test Suite:**** Inventory Management

****Test Priority:** High**

****Preconditions:****

- * A user account with access to the inventory management module is logged in.
- * At least one inventory item exists in the system.

****Test Data:****

- * A test inventory item with a starting quantity.

****Test Steps:****

1. Navigate to the inventory management module.
2. Select the desired test inventory item.
3. Find the "Reorder Point" field within the item's details.
4. Enter a new reorder point value for the inventory item.
5. Save the changes.

****Postconditions:****

- * The system successfully updates the reorder point for the selected inventory item.

****Expected Result:****

The newly entered reorder point value is displayed in the inventory item's details.

****Severity:**** Blocker

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****Test Case 2:****

****Test Case ID:**** TC_INV_002

****Test Case Title:**** Verify that the system calculates reorder quantities based on demand forecasts and lead times.

****Test Case Description:**** This test case verifies the system's ability to calculate the reorder quantity based on predefined demand forecasts and provided lead times for inventory items.

****Test Suite:**** Inventory Management

****Test Priority:**** High

****Preconditions:****

* A user account with access to the inventory management module is logged in.

* A test inventory item with demand forecasts and lead times exists.

****Test Data:****

* A test inventory item with historical demand data, forecasted demand, and a defined lead time.

****Test Steps:****

1. Navigate to the inventory management module.
2. Select the test inventory item.
3. Access the reorder settings section.
4. Review the calculated reorder quantity based on the provided demand forecasts and lead times.

****Postconditions:****

* The system has calculated a reorder quantity based on the defined parameters.

****Expected Result:**** The calculated reorder quantity is displayed accurately, reflecting the inputted demand forecasts and lead times.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:** Positive**

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****Test Case 3:****

****Test Case ID:** TC_INV_003**

****Test Case Title:** Verify that reorder data is saved and accessible for future reference.**

****Test Case Description:** This test case verifies that the set reorder points and quantities are saved and remain available for viewing and modification in the future.**

****Test Suite:** Inventory Management**

****Test Priority:** Medium**

****Preconditions:****

- * A user account with access to the inventory management module is logged in.
- * A test inventory item has existing reorder points set.

****Test Data:****

- * A test inventory item with previously set reorder points.

****Test Steps:****

1. Navigate to the inventory management module.
2. Select the test inventory item.
3. Review the saved reorder point and quantity values.
4. Log out of the system.
5. Log back into the system with the same account.
6. Select the same test inventory item.
7. Review the reorder point and quantity values again.

****Postconditions:****

- * The system has successfully loaded the previously saved reorder data.

****Expected Result:****

The saved reorder point and quantity values for the inventory item are displayed consistently after logging out and back into the system.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Regression Testing

****Test Case Approach:** Positive**

****Test Case 4:****

****Test Case ID:** TC_INV_004**

****Test Case Title:** Verify that users receive notifications when reorder points are reached.**

****Test Case Description:** This test confirms that the system effectively sends notifications to users when the inventory level of a particular item drops to its predefined reorder point.**

****Test Suite:** Inventory Management**

****Test Priority:** High**

****Preconditions:****

- * A user account with access to the inventory management module is logged in.
- * Notification settings are correctly configured for the user.
- * A test inventory item with a set reorder point and a stock level below the reorder point exists.

****Test Data:****

- * A test inventory item with a reorder point and a current stock level below that point.

****Test Steps:****

1. Configure notification settings (Email, SMS, etc.) within the system for the user account.
2. Verify the user's notification preferences are set up correctly.
3. The system should automatically generate a notification (Email, SMS, etc.) when the stock level of the test inventory item reaches or falls below its predetermined reorder point.

****Postconditions:****

- * The system successfully sends a notification to the user.

****Expected Result:****

Users receive timely notifications when the stock level of an item reaches its defined reorder point.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing, System Testing**

****Test Case Approach:** Positive**

****Test Case 5:****

****Test Case ID:** TC_INV_005**

****Test Case Title:** Verify that reorder data is updated in real-time as inventory levels change.**

****Test Case Description:** This test case verifies that the system dynamically updates reorder quantities and points based on changing inventory levels in real-time.**

****Test Suite:** Inventory Management**

****Test Priority:** Medium**

****Preconditions:****

- * A user account with access to the inventory management module is logged in.
- * A test inventory item with defined reorder points and quantities exists.

****Test Data:****

- * A test inventory item with a stock level below its reorder point.

****Test Steps:****

1. Monitor the inventory level and reorder quantities for the test inventory item.
2. Manually adjust the stock level of the test inventory item (increase or decrease).
3. Observe the real-time update of reorder quantities and points.

****Postconditions:****

* The system automatically adjusts reorder quantities and points based on the updated inventory level.

****Expected Result:****

Reorder quantities and points are accurately and instantaneously updated in the system as inventory levels fluctuate.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional Testing, Integration Testing**

****Test Case Approach:** Positive ****

These test cases provide a solid foundation for verifying the functionality and robustness of the Inventory Reordering feature within the Inventory Management System.

Project name -

Job Search Platform

Project description -

Develop a job search platform for connecting job seekers with employers and facilitating the job search process. The platform should include features like job search and browse, resume posting and job application, company profiles and reviews, job alerts and notifications, and interview scheduling. Users should be able to search for jobs based on location, industry, and keywords, apply to job postings, and track their job application status.

Feature name -

Job Listings

Feature description -

The platform aggregates job listings from various sources, including company websites, job boards, and recruitment agencies. Users can browse through a comprehensive database of job openings across industries, locations, and job types.

Userstory title -

As a user, I want to browse job listings so that I can find job opportunities that match my skills and preferences.

Acceptance criteria -

['Users can browse job listings by industry, location, and job type.', 'The job listings are displayed in a user-friendly format.', 'Users can view detailed job descriptions.', 'Job listings can be bookmarked for future reference.', 'The platform updates job listings regularly.']

Generated Test Cases:

Job Search Platform - Test Cases for Job Listings Feature

****Test Case 1:****

*** **Test Case ID:** TC_JOB_LISTINGS_001**

*** **Test Case Title:** Verify that users can browse job listings by industry.**

*** **Test Case Description:** This test case verifies the ability to filter job listings by industry and ensures the displayed listings correspond to the selected industry.**

*** **Test Suite:** Functionality Testing**

*** **Test Priority:** High**

*** **Preconditions:****

- * User is logged in or browsing as a guest.

- * The job listings database contains entries across various industries.

*** **Test Data:** List of industry categories (e.g., Technology, Healthcare, Finance).**

*** **Test Steps:****

1. Navigate to the job listings page.
2. Select a specific industry category from the available filters.
3. Verify that the displayed job listings are relevant to the chosen industry.

*** **Postconditions:** User remains on the job listings page.**

*** **Expected Result:** The job listings displayed should be relevant to the selected industry category.**

*** **Severity:** Critical**

*** **Priority:** High**

*** **Type of Testing:** Functional Testing**

*** **Test Case Approach:** Positive**

****Test Case 2:****

*** **Test Case ID:** TC_JOB_LISTINGS_002**

*** **Test Case Title:** Verify that users can browse job listings by location.**

* **Test Case Description:** This test case verifies the functionality of filtering job listings by location and ensures displayed listings correspond to the selected location.

* **Test Suite:** Functionality Testing

* **Test Priority:** High

* **Preconditions:**

- * User is logged in or browsing as a guest.

- * The job listings database contains entries across various locations.

* **Test Data:** List of city and state/region locations.

* **Test Steps:**

1. Navigate to the job listings page.
2. Select a specific city and state/region combination from the location filter.
3. Verify that the displayed job listings are primarily located in the chosen area.

* **Postconditions:** User remains on the job listings page.

* **Expected Result:** The job listings displayed should predominantly be from the selected location.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

****Test Case 3:****

* **Test Case ID:** TC_JOB_LISTINGS_003

* **Test Case Title:** Verify that users can browse job listings by job type.

* **Test Case Description:** This test case verifies the functionality of filtering job listings by job type and ensures displayed listings correspond to the selected type.

* **Test Suite:** Functionality Testing

* **Test Priority:** High

* **Preconditions:**

* User is logged in or browsing as a guest.

* The job listings database contains entries across various job types.

* **Test Data:** List of job types (e.g., Full-time, Part-time, Internship, Contract).

* **Test Steps:**

1. Navigate to the job listings page.

2. Select a specific job type from the available filters.

3. Verify that the displayed job listings correspond to the chosen job type.

* **Postconditions:** User remains on the job listings page.

* **Expected Result:** The job listings displayed should align with the selected job type.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

Test Case 4:

* **Test Case ID:** TC_JOB_LISTINGS_004

* **Test Case Title:** Verify that job listings are displayed in a user-friendly format.

* **Test Case Description:** This test case evaluates the visual presentation and organization of job listings, ensuring clarity and user-friendliness.

* **Test Suite:** Usability Testing

* **Test Priority:** Medium

* **Preconditions:**

* User is logged in or browsing as a guest.

* The job listings database contains various job entries.

* **Test Data:** N/A

****Test Steps:****

1. Navigate to the job listings page.
2. Observe the layout and organization of job listings.
3. Assess the readability and clarity of key information displayed (e.g., job title, company name, location, salary range).

****Postconditions:**** User remains on the job listings page.

****Expected Result:**** Job listings should be presented in a clear, structured, and easy-to-read format, facilitating efficient browsing and information comprehension.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Usability Testing

****Test Case Approach:**** Observation

****Test Case 5:****

****Test Case ID:**** TC_JOB_LISTINGS_005

****Test Case Title:**** Verify that users can view detailed job descriptions.

****Test Case Description:**** This test case ensures that users can access complete job descriptions for selected listings, containing relevant information about the position, company, and application process.

****Test Suite:**** Functional Testing

****Test Priority:**** High

****Preconditions:****

- * User is logged in or browsing as a guest.

- * The job listings database includes job descriptions for each entry.

****Test Data:**** List of job titles with complete descriptions

****Test Steps:****

1. Navigate to the job listings page.

2. Select a job listing from the displayed results.

3. Verify that the chosen job listing displays a detailed description containing information about the role, responsibilities, required qualifications, company background, and application instructions.

* **Postconditions:** User remains on the job description page.

* **Expected Result:** Each job listing should provide a comprehensive and informative description accessible to users.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing

* **Test Case Approach:** Positive

These test cases are designed to cover various aspects of the job listings feature, ensuring its functionality, usability, and user-friendliness.

Data - 197

Project name -

Job Search Platform

Project description -

Develop a job search platform for connecting job seekers with employers and facilitating the job search process. The platform should include features like job search and browse, resume posting and job application,

company profiles and reviews, job alerts and notifications, and interview scheduling. Users should be able to search for jobs based on location, industry, and keywords, apply to job postings, and track their job application status.

Feature name -

Advanced Search Filters

Feature description -

Users can refine their job search using advanced filters such as location, job title, salary range, company size, and employment type. This feature allows users to narrow down their search results to find relevant job opportunities that match their preferences and qualifications.

Userstory title -

As a user, I want to use advanced search filters so that I can find job opportunities that closely match my criteria.

Acceptance criteria -

['Users can filter job listings by location, job title, salary range, company size, and employment type.', 'Multiple filters can be applied simultaneously.', 'Filter settings are saved for future sessions.', 'Search results update dynamically based on selected filters.', 'Users can reset filters to default settings.']

Generated Test Cases:

Test Cases for Advanced Search Filters Feature

****Test Case ID:**** TC-ADV-SEARCH-001

****Test Case Title:**** Verify that users can filter job listings by location

****Test Case Description:**** This test case aims to verify that users can successfully filter job listings based on specific location criteria. It will test the functionality of entering different location types (city, region, state, country) and ensuring the search results accurately reflect the selected location.

****Test Suite:**** Job Search Platform - Advanced Search

****Test Priority:**** High

****Preconditions:****

- * User is logged into the platform.

****Test Data:****

- * Valid location names (e.g., London, California, New York, etc.)

****Test Steps:****

1. Navigate to the job search page.
2. Input a keyword to display relevant job listings.
3. Locate the "Location" filter and click on it.
4. Enter a specific location in the search bar.
5. Observe the filtered job listings and ensure they are geographically relevant to the chosen location.

****Postconditions:****

- * Filters should remain applied on subsequent page loads.

****Expected Result:**** The search results should dynamically update and display only job listings located in the specified area.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****__****

****Test Case ID:** TC-ADV-SEARCH-002**

****Test Case Title:** Verify that users can filter job listings by job title**

****Test Case Description:** This test case verifies the functionality of filtering job listings by specific job titles. It will test various valid job titles and ensure the search results accurately reflect the selected job type.**

****Test Suite:** Job Search Platform - Advanced Search**

****Test Priority:** High**

****Preconditions:****

*** User is logged into the platform.**

****Test Data:****

*** Valid job titles (e.g., Software Engineer, Project Manager, Data Analyst, etc.)**

****Test Steps:****

1. Navigate to the job search page.
2. Locate the "Job Title" filter and click on it.
3. Enter a specific job title in the search bar.
4. Observe the filtered job listings and ensure they contain only job postings matching the selected job title.

****Postconditions:****

* Filters should remain applied on subsequent page loads.

****Expected Result:**** The search results should dynamically update and display only job listings matching the entered job title.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

****_ _ _ _****

****Test Case ID:**** TC-ADV-SEARCH-003

****Test Case Title:**** Verify that users can filter by salary range

****Test Case Description:**** This test case verifies the functionality of filtering job listings by a specific salary range. It will test different salary ranges, ensuring the search results accurately reflect the selected criteria.

****Test Suite:**** Job Search Platform - Advanced Search

****Test Priority:**** High

****Preconditions:****

* User is logged into the platform.

****Test Data:****

* Valid salary ranges (e.g., \$40,000 - \$60,000, \$70,000 - \$100,000, etc.)

****Test Steps:****

1. Navigate to the job search page.
2. Locate the "Salary Range" filter and click on it.
3. Input a desired salary range in the search bar (e.g., \$50,000 - \$80,000).
4. Observe the filtered job listings and ensure they display only positions within the specified salary range.

****Postconditions:****

* Filters should remain applied on subsequent page loads.

****Expected Result:**** The search results should dynamically update and display only job listings with salaries falling within the chosen range.

****Severity:**** Critical

****Priority:**** High

****Type of Testing:**** Functional Testing

****Test Case Approach:**** Positive

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These are just a few examples of test cases that can be created for the Advanced Search Filters feature. Remember to create additional test cases to cover all aspects of the feature and to include various edge cases and negative scenarios.

Data - 198

Project name -

Job Search Platform

Project description -

Develop a job search platform for connecting job seekers with employers and facilitating the job search process. The platform should include features like job search and browse, resume posting and job application, company profiles and reviews, job alerts and notifications, and interview scheduling. Users should be able to search for jobs based on location, industry, and keywords, apply to job postings, and track their job application status.

Feature name -

Personalized Job Recommendations

Feature description -

The platform provides personalized job recommendations based on users' skills, experience, and preferences. Using machine learning algorithms, the platform suggests relevant job openings that align with users' career goals and interests.

Userstory title -

As a user, I want to receive personalized job recommendations so that I can find job opportunities that match my profile.

Acceptance criteria -

['The platform recommends jobs based on user profile information.', 'Users can provide feedback on recommendations to improve accuracy.', 'Job recommendations are updated regularly.', 'Users can save or dismiss recommendations.', 'Recommendations consider user preferences and job search history.']

Generated Test Cases:

Job Search Platform: Personalized Job Recommendations Test Cases

Based on the provided User Story and Acceptance Criteria, here are five detailed test cases:

****Test Case ID:** TC_JobRec_01**

****Test Case Title:** Verify that job recommendations are based on user profile information.**

****Test Case Description:**** This test case verifies that the platform recommends jobs aligned with the user's provided profile details, such as skills, experience, and desired location.

****Test Suite:**** Feature Testing

****Test Priority:**** High

****Preconditions:****

- * A user account is created with complete profile information (skills, experience, location).
- * The user has saved their preferred job categories and industry.

****Test Data:****

- * Sample user profile with specific skills, experience, and location.
- * List of job postings matching the user profile criteria.

****Test Steps:****

1. Log in to the platform using the created user account.
2. Navigate to the "Personalized Recommendations" section.
3. Review the displayed job recommendations.
4. Confirm that the recommended jobs align with the user's stated skills, experience, location, desired job categories, and industry.

****Postconditions:****

- * The user remains logged in.
- * The user's profile information is updated if necessary.

****Expected Result:****

The system should recommend jobs that match the user's profile information accurately.

****Severity:** Critical**

****Priority:** High**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_JobRec_02**

****Test Case Title:** Verify that users can provide feedback on recommendations to improve accuracy.**

****Test Case Description:** This test case ensures that users can rate or comment on recommended jobs, allowing the system to learn and refine suggestions based on user feedback.**

****Test Suite:** Feature Testing**

****Test Priority:** High**

****Preconditions:****

- * A user account is created.
- * The user has viewed personalized job recommendations.

****Test Data:****

- * Sample job recommendations.

****Test Steps:****

1. Log in to the platform using the created user account.
2. Navigate to the "Personalized Recommendations" section.
3. Select a job recommendation and choose the "Rate" or "Comment" option.
4. Provide feedback on the relevance of the recommendation (e.g., rate it as helpful or not helpful or leave a comment explaining why it is/is not relevant).
5. Confirm that the feedback is successfully submitted.

****Postconditions:****

- * The user remains logged in.
- * The submitted feedback is stored within the system.

****Expected Result:****

The system should allow users to rate or comment on job recommendations, and this feedback should be recorded and potentially used to improve future recommendations.

****Severity:** Major**

****Priority:** Medium**

****Type of Testing:** Functional Testing**

****Test Case Approach:** Positive**

****Test Case ID:** TC_JobRec_03**

****Test Case Title:** Verify that job recommendations are updated regularly.**

****Test Case Description:** This test case ensures that the recommendation engine considers updated user data and newly added job postings, providing fresh and relevant suggestions.**

****Test Suite:** Feature Testing**

****Test Priority:** Medium**

****Preconditions:****

- * A user account is created.
- * Initial job recommendations are displayed.
- * New job postings are added to the system.
- * User updates their profile information (e.g., adds a new skill or changes their desired location).

****Test Data:****

- * Sample list of initial job recommendations.
- * New job postings added to the system.
- * Updated user profile information.

****Test Steps:****

1. Log in to the platform using the created user account.
2. View the initial job recommendations.
3. Wait for a specified period (e.g., 24 hours) for new recommendations to be generated.
4. Review the updated job recommendations.
5. Confirm that the new recommendations include recently added job postings and reflect the user's updated profile information.

****Postconditions:****

- * The user remains logged in.
- * The system's recommendation engine has updated based on new data.

****Expected Result:****

The system should generate new job recommendations that reflect recent updates to both job postings and the user's profile information.

****Severity:**** Major

****Priority:**** Medium

****Type of Testing:**** Functional Testing, Regression Testing

****Test Case Approach:**** Positive

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Data - 199

Project name -

Job Search Platform

Project description -

Develop a job search platform for connecting job seekers with employers and facilitating the job search process. The platform should include features like job search and browse, resume posting and job application, company profiles and reviews, job alerts and notifications, and interview scheduling. Users should be able to search for jobs based on location, industry, and keywords, apply to job postings, and track their job application status.

Feature name -

Saved Searches

Feature description -

Users can save their search criteria and receive email alerts for new job listings that match their saved searches. This feature allows users to stay updated on new job opportunities without constantly having to

search for them manually.

Userstory title -

As a user, I want to save my search criteria so that I can receive alerts for new job listings that match my preferences.

Acceptance criteria -

['Users can save their job search criteria.', 'Email alerts are sent for new job listings matching saved searches.', 'Users can manage and delete saved searches.', 'Saved search criteria are stored securely.', 'Users can view and edit saved search criteria.']

Generated Test Cases:

Job Search Platform - Saved Searches Test Cases

Following the provided template, here are 5 detailed test cases for the "Saved Searches" feature:

****Test Case 1:****

* ****Test Case ID:**** TC_SavedSearches_001

* ****Test Case Title:**** Verify that users can save their job search criteria.

* ****Test Case Description:**** This test case verifies the functionality of saving job search criteria, ensuring that the platform correctly stores user-defined preferences for location, industry, keywords, and other relevant filters.

* ****Test Suite:**** Job Search Platform Feature Tests

* ****Test Priority:**** High

* ****Preconditions:****

* A registered user is logged into the platform.

* The job search page is accessible.

* ****Test Data:**** Sample job search criteria (location: "New York", industry: "Technology", keywords:

"Software Engineer")

* **Test Steps:**

1. Navigate to the job search page.
2. Input the sample job search criteria.
3. Click the "Save Search" button.
4. Verify that a confirmation message is displayed, indicating successful saving of the search.

* **Postconditions:**

- * The saved search should appear in the user's saved searches list.
- * The user can view and manage the saved search.

* **Expected Result:** The job search criteria are successfully saved, displayed in the saved searches list, and accessible for future use.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, User Interface Testing

* **Test Case Approach:** Positive

Test Case 2:

* **Test Case ID:** TC_SavedSearches_002

* **Test Case Title:** Verify that email alerts are sent for new job listings matching saved searches.

* **Test Case Description:** This test case verifies that the platform correctly sends email alerts to users when new job listings matching their saved search criteria become available.

* **Test Suite:** Job Search Platform Feature Tests

* **Test Priority:** High

* **Preconditions:**

* A registered user has saved at least one job search.

* **Test Data:** New job postings that match the criteria of a saved search.

* **Test Steps:**

1. Wait for the platform to update with new job postings matching the saved search criteria.
2. Check the user's email inbox for a notification from the platform.
3. Open the email and verify that it contains relevant information about the new job listings, matching the saved search.

* **Postconditions:**

- * The user has received an email alert.
- * The new job listings are accessible through the platform.

* **Expected Result:** A timely email alert is delivered to the user's inbox containing information about new job listings matching the criteria of their saved search.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Functional Testing, Integration Testing, System Testing, Acceptance Testing

* **Test Case Approach:** Positive

Test Case 3:

* **Test Case ID:** TC_SavedSearches_003

* **Test Case Title:** Verify that users can manage and delete saved searches.

* **Test Case Description:** This test case verifies the ability of users to modify existing saved searches and remove unwanted entries from their saved searches list.

* **Test Suite:** Job Search Platform Feature Tests

* **Test Priority:** Medium

* **Preconditions:**

- * A user has saved at least one job search.

* **Test Data:** Existing saved searches saved in the user account.

* **Test Steps:**

1. Navigate to the user's saved searches list.
2. Click the "Edit" button for an existing saved search.
3. Modify the job search criteria to include different keywords or filters.
4. Click the "Save Changes" button.
5. Verify that the saved search criteria have been updated.
6. Click the "Delete" button for the modified saved search.
7. Confirm the deletion.

* **Postconditions:**

- * The modified saved search is no longer visible.

* **Expected Result:** The platform accurately updates existing saved searches and removes unwanted searches from the user's list.

* **Severity:** Major

* **Priority:** Medium

* **Type of Testing:** Functional Testing, User Interface Testing

* **Test Case Approach:** Positive/Negative

Test Case 4:

* **Test Case ID:** TC_SavedSearches_004

* **Test Case Title:** Verify that saved search criteria are stored securely.

* **Test Case Description:** This test case assesses the security measures implemented to protect user-defined saved search criteria from unauthorized access or modification.

* **Test Suite:** Job Search Platform Security Tests

* **Test Priority:** High

* **Preconditions:**

- * A registered user has saved at least one job search.

* **Test Data:** Admin User Access

* **Test Steps:**

1. Attempt to access the user's saved searches from an admin user account.
2. Observe the system response and the level of access granted.

* **Postconditions:**

- * The user's saved searches are not directly accessible by unauthorized users.

* **Expected Result:** Access to user-specific saved search data is restricted to the authorized user, ensuring data confidentiality.

* **Severity:** Critical

* **Priority:** High

* **Type of Testing:** Security Testing

* **Test Case Approach:** Negative

Test Case 5:

* **Test Case ID:** TC_SavedSearches_005

* **Test Case Title:** Verify that users can view and edit saved search criteria.

* **Test Case Description:** This test case verifies the functionality of viewing and editing previously saved job search criteria, allowing users to refine their preferences as needed.

* **Test Suite:** Job Search Platform Feature Tests

* **Test Priority:** Medium

* **Preconditions:**

- * A registered user has saved at least one job search.

* **Test Data:** Existing saved searches saved in the user account.

* **Test Steps:**

1. Navigate to the user's saved searches list.
2. Click on the "View" button for an existing saved search.
3. Verify that the saved search criteria are displayed accurately.
4. Click the "Edit" button for the saved search.
5. Modify one or more of the search criteria.
6. Click the "Save Changes" button.

* **Postconditions:**

- * The saved search is updated with the modified criteria.

* **Expected Result:** Users can successfully view and edit their saved searches, allowing for flexible and dynamic job search preferences.

* **Severity:** Minor

* **Priority:** Medium

* **Type of Testing:** Functional Testing, User Interface Testing

* **Test Case Approach:** Positive

These test cases undergo thorough execution to validate the functionality and security of the "Saved Searches" feature, ensuring a high-quality user experience.

Data - 200

Project name -

Job Search Platform

Project description -

Develop a job search platform for connecting job seekers with employers and facilitating the job search process. The platform should include features like job search and browse, resume posting and job application, company profiles and reviews, job alerts and notifications, and interview scheduling. Users should be able to search for jobs based on location, industry, and keywords, apply to job postings, and track their job application status.

Feature name -

Resume Builder

Feature description -

The platform offers a resume builder tool that helps users create professional-looking resumes quickly and easily. Users can input their work experience, education, skills, and achievements into pre-designed templates to generate customized resumes.

Userstory title -

As a user, I want to create a professional resume so that I can apply to jobs with a well-structured document.

Acceptance criteria -

['Users can input their work experience, education, skills, and achievements.', 'The resume builder offers pre-designed templates.', 'Users can customize the templates with their information.', 'The resume can be saved and downloaded as a PDF.', 'Users can preview the resume before saving.']

Generated Test Cases:

Job Search Platform - Resume Builder Test Cases

Here are 5 detailed test cases for the "Resume Builder" feature based on the provided User Story and Acceptance Criteria:

Test Case 1

* **Test Case ID:** TC_001

* **Test Case Title:** Verify that users can input their work experience into the resume builder.

* **Test Case Description:** This test case will verify that users can successfully add their work experience details (job title, company name, dates of employment, responsibilities, achievements) to the resume builder. It will also check if the entered information is displayed correctly on the resume preview.

* **Test Suite:** Resume Builder

* **Test Priority:** High

* **Preconditions:**

- * Registered user is logged into the job search platform.

- * User has access to the resume builder feature.

* **Test Data:** Sample work experience details with varying lengths and complexities.

* **Test Steps:**

1. Navigate to the resume builder tool.
2. Click on the "Add Work Experience" section.
3. Input sample work experience details (job title, company name, dates, responsibilities, achievements) accurately.
4. Preview the generated resume to ensure the entered information is displayed correctly.
5. Save the resume as a draft.

* **Postconditions:**

- * The resume draft should be saved with the entered work experience details.

* **Expected Result:** All entered work experience details are displayed accurately on the resume preview.

****Test Case 2****

* **Test Case ID:** TC_002

* **Test Case Title:** Verify that users can select from pre-designed resume templates.

* **Test Case Description:** This test case will verify the availability and usability of different resume templates provided by the resume builder tool. It will ensure users can preview and select their preferred template.

* **Test Suite:** Resume Builder

* **Test Priority:** High

* **Preconditions:**

- * Registered user is logged into the job search platform.

- * User has access to the resume builder feature.

* **Test Data:** No test data needed

* **Test Steps:**

1. Access the resume builder tool.
2. Observe the different resume templates available.
3. Click on a template to preview its layout and design.
4. Choose a different template and preview its design elements.

* **Postconditions:** No specific postconditions.

* **Expected Result:** Users can easily browse and preview various pre-designed resume templates and select the desired one.

****Test Case 3****

* **Test Case ID:** TC_003

* **Test Case Title:** Verify that users can customize resume templates with their information.

* **Test Case Description:**

This test case will validate the customizability of the selected resume templates. It will ensure users can modify text fields, sections, and potentially other elements to personalize the resume based on their specific information and preferences.

* **Test Suite:** Resume Builder

* **Test Priority:** High

* **Preconditions:**

- * A user has selected a pre-designed resume template.

- * User has inputted basic information (work experience, education, skills).

* **Test Data:** Assorted text strings, dates, numbers, and bullet points for customization.

* **Test Steps:**

1. Select a resume template from the available options.
2. Modify the text fields (name, contact information, summary, etc.).
3. Update the provided sample work experience details with personalized information.
4. Add new sections (e.g., projects, volunteer experience) and populate them with relevant data.
5. Change the font style, size, or color within specific sections (if applicable).

* **Postconditions:**

- * The customized resume should be saved as a draft.

* **Expected Result:**

Users can successfully modify various elements of the selected template to create a personalized resume reflecting their own information and style.

****Test Case 4****

* **Test Case ID:** TC_004

* **Test Case Title:** Verify that the resume builder allows saving and downloading as a PDF.

* **Test Case Description:** This test case will confirm the functionality of saving a resume as a draft and downloading it as a PDF document.

* **Test Suite:** Resume Builder

* **Test Priority:** High

* **Preconditions:**

- * A user has created a resume with sample data.

* **Test Data:** No test data needed

* **Test Steps:**

1. Complete the resume builder, ensuring all essential information is entered.
2. Click on the "Save Draft" button to save the resume.
3. Locate the "Download PDF" button and click it to download the resume as a PDF file.
4. Open the downloaded PDF file to verify its content and formatting.

* **Postconditions:**

- * The resume draft should be saved on the platform.
- * A PDF file containing the resume content is downloaded successfully.

* **Expected Result:** Users can successfully save their resume drafts and download them as valid PDF files with correct formatting.

****Test Case 5****

* **Test Case ID:** TC_005

* **Test Case Title:** Verify that users can preview their resume before saving.

* **Test Case Description:** This test case will verify the functionality of the resume preview feature, ensuring that users can see a live representation of their resume with the entered data before making it permanent.

* **Test Suite:** Resume Builder

* **Test Priority:** Medium

* **Preconditions:**

* A user has completed at least a portion of the resume builder, entering data into various fields.

* **Test Data:** No test data needed

* **Test Steps:**

1. Navigate to the resume builder tool.
2. Input sample data into various sections (work experience, education, skills).
3. Click on the "Preview" button to view the resume in its rendered state.
4. Observe the layout, design, and content to ensure accuracy and clarity.

* **Postconditions:** No specific postconditions.

* **Expected Result:** The preview accurately reflects the entered data and the selected template's design.
