

# Generated Test Cases via gemma-7b-it LLM Model and Zero-shot Prompting Technique

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## 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:

## Test Cases for User Profile Feature

**\*\*Test Case 1:\*\*** Verify that users can add their name to their profile.

**\*\*Test Case ID:\*\*** USRP\_01

**\*\*Test Case Title:\*\*** Add user name to profile.

**\*\*Test Case Description:\*\*** This test case verifies that users can successfully enter and save their name in their profiles.

**\*\*Test Data:\*\*** "John Doe"

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

- Navigate to profile creation page.
- Enter "John Doe" into the "Name" field.
- Click "Save Profile".

**\*\*Expected Result:\*\*** User name is displayed on the profile.

**\*\*Test Case 2:\*\*** Verify that the profile picture field supports standard image formats.

**\*\*Test Case ID:\*\*** USRP\_02

**\*\*Test Case Title:\*\*** Upload valid image file to profile picture.

**\*\*Test Case Description:\*\*** This test case verifies that the platform accepts standard image formats for the profile picture.

**\*\*Test Data:\*\*** PNG, JPEG, TIFF

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

- Navigate to profile creation page.
- Click the "Choose profile picture" button.
- Select a valid image file (PNG, JPEG, TIFF).
- Click "Upload".

**\*\*Expected Result:\*\*** Uploaded image is displayed on the profile.

**\*\*Test Case 3:\*\*** Verify that users can set privacy settings for each field.

**\*\*Test Case ID:\*\*** USRP\_03

**\*\*Test Case Title:\*\*** Set privacy settings for profile fields.

**\*\*Test Case Description:\*\*** This test case verifies that users can control the visibility of their name, bio, location, and interests individually.

**\*\*Test Data:\*\*** "Private" or "Public"

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

- Navigate to profile creation page.
- Enter information in the desired fields.
- Select privacy settings (Private or Public) for each field.
- Click "Save Profile".

**\*\*Expected Result:\*\*** Privacy settings are saved and reflected on the profile.

**\*\*Test Case 4:\*\*** Verify that the profile is saved successfully.

**\*\*Test Case ID:\*\*** USRP\_04

**\*\*Test Case Title:\*\*** Save profile with valid data.

**\*\*Test Case Description:\*\*** This test case verifies that all user-entered information is saved correctly to the database.

**\*\*Test Data:\*\*** Valid user information

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

- Navigate to profile creation page.

- Enter all required information in the profile fields.

- Click "Save Profile".

**\*\*Expected Result:\*\*** A confirmation message is displayed and the profile is saved in the database.

**\*\*Test Case 5:\*\*** Verify that users receive a confirmation upon saving their profile.

**\*\*Test Case ID:\*\*** USRP\_05

**\*\*Test Case Title:\*\*** Profile save confirmation message.

**\*\*Test Case Description:\*\*** This test case verifies that a confirmation message is displayed to the user after successfully saving their profile.

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

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

- Navigate to profile creation page.

- Enter all required information in the profile fields.

- Click "Save Profile".

**\*\*Expected Result:\*\*** A confirmation message is displayed indicating the profile was saved successfully.

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## **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:**

## Test Cases for News Feed Feature

**\*\*Test Case 1: Verify that posts from followed accounts are displayed\*\***

**\* \*\*Test Case ID:\*\* NEWSFEED-01**

**\* \*\*Test Case Title:\*\* Verify that posts from followed accounts are displayed on the news feed**

**\* \*\*Test Case Description:\*\* This test case verifies that posts from accounts the user follows are displayed in the chronological order on the news feed.**

**\* \*\*Test Data:\*\* List of follower accounts**

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

1. Follow several accounts.

2. Create and share a post on each followed account.
3. Navigate to the news feed.
4. Verify that posts from each followed account are displayed.

\* \*\*Expected Result:\*\* All posts from followed accounts are displayed on the news feed.

**\*\*Test Case 2: Verify content is shown in chronological order\*\***

\* \*\*Test Case ID:\*\* NEWSFEED-02

\* \*\*Test Case Title:\*\* Verify content is shown in chronological order on the news feed

\* \*\*Test Case Description:\*\* This test case verifies that content on the news feed is displayed in chronological order, most recent posts appearing first.

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

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

1. Share several posts with different timestamps.
2. Navigate to the news feed.
3. Verify that the most recent posts appear at the top of the feed.

\* \*\*Expected Result:\*\* Content is displayed in chronological order on the news feed.

**\*\*Test Case 3: Verify user interaction with posts\*\***

\* \*\*Test Case ID:\*\* NEWSFEED-03

\* \*\*Test Case Title:\*\* Verify user interaction with posts on the news feed

\* \*\*Test Case Description:\*\* This test case verifies that users can interact with posts on the news feed by liking, commenting, and sharing.

\* \*\*Test Data:\*\* Sample post with comments and likes

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

1. Locate a post on the news feed.
2. Like the post.
3. Comment on the post.
4. Share the post.

**\*\*Expected Result:\*\*** Users can successfully like, comment, and share posts on the news feed.

**\*\*Test Case 4: Verify real-time feed updates\*\***

**\*\*Test Case ID:\*\*** NEWSFEED-04

**\*\*Test Case Title:\*\*** Verify real-time feed updates on the news feed

**\*\*Test Case Description:\*\*** This test case verifies that the news feed automatically updates in real-time when new content is shared by followed accounts.

**\*\*Test Data:\*\*** New post shared by a follower

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

1. Follow an account.
2. Share a post on that account.
3. Observe the news feed in real-time.

**\*\*Expected Result:\*\*** The news feed automatically updates with the new post shared by the followed account.

**\*\*Test Case 5: Verify content filtering by type/topic\*\***

**\*\*Test Case ID:\*\*** NEWSFEED-05

**\*\*Test Case Title:\*\*** Verify content filtering by type/topic on the news feed

\* \*\*Test Case Description:\*\* This test case verifies that users can filter content on the news feed based on type or topic.

\* \*\*Test Data:\*\* Search term for specific type/topic

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

1. Navigate to the news feed.
2. Use the filter bar to search for a specific type or topic.
3. Verify that the displayed content aligns with the search criteria.

\* \*\*Expected Result:\*\* Users can filter content on the news feed based on type or topic.

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### **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:

## Test Cases for Messaging Feature

**\*\*Test Case 1\*\***

Test Case ID: QA-Messaging-001

Test Case Title: Verify that users can send text messages

Test Case Description: This test case verifies that users can input text and send it to another user.

Test Suite: Messaging

Test Priority: High

Preconditions: User accounts are logged in, message recipient is online

Test Data: "Hello World!"

Test Steps:

1. Navigate to the messaging interface.
2. Enter a message in the chat field.
3. Click the "Send" button.

Expected Result: The message is sent and displayed in the conversation.

Severity: Minor

Priority: High

Type of Testing: Functional Testing

## **\*\*Test Case 2\*\***

Test Case ID: QA-Messaging-002

Test Case Title: Verify that users can send images in private messages

Test Case Description: This test case verifies that users can attach and send images to private messages.

Test Suite: Messaging

Test Priority: Medium

Preconditions: User accounts are logged in, image file is selected

Test Data: Image file (jpg/png/gif)

Test Steps:

1. Navigate to the messaging interface.
2. Select the "Attach File" icon.
3. Select an image file from local storage.
4. Click the "Send" button.

Expected Result: The image is sent and displayed in the conversation.

Severity: Medium

Priority: Medium

## **\*\*Test Case 3\*\***

Test Case ID: QA-Messaging-003

Test Case Title: Verify that users can create private conversations

Test Case Description: This test case verifies that users can initiate private conversations with other users.

Test Suite: Messaging

Test Priority: High

Preconditions: User accounts are logged in

Test Data: Name of the recipient

Test Steps:

1. Click the "New Conversation" button.
2. Enter the name of the desired recipient.
3. Click the "Create Conversation" button.

Expected Result: A new private conversation is created with the chosen recipient.

Severity: Minor

Priority: High

**\*\*Test Case 4\*\***

Test Case ID: QA-Messaging-004

Test Case Title: Verify that read receipts are displayed for received messages

Test Case Description: This test case verifies that senders receive read receipts when their messages are read by the recipient.

Test Suite: Messaging

Test Priority: Medium

Preconditions: User accounts are logged in, message is sent

Test Data: N/A

Test Steps:

1. Send a message to another user.
2. The recipient reads the message.

Expected Result: A "Read" indicator appears next to the delivered message.

Severity: Minor

Priority: Medium

**\*\*Test Case 5\*\***

Test Case ID: QA-Messaging-005

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

Test Case Description: This test case verifies that users receive notifications when they receive new messages.

Test Suite: Messaging

Test Priority: High

Preconditions: User account is logged in

Test Data: N/A

Test Steps:

- 1. Another user sends a message to the current user.
- 2. Verify that a notification is received on the designated platform.

Expected Result: The user receives a notification indicating that they have new messages.

Severity: Medium

Priority: High

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**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:**

## Social Media Platform - Content Sharing Test Cases

**\*\*Test Case 1: Valid Text Post\*\***

**\*\*Test Case ID:\*\* CS-01**

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

**\*\*Test Case Description:\*\*** This test case verifies that users can input text, hashtags, and tags into a text post and successfully share it.

**\*\*Test Data:\*\*** "This is a test post!" #test #testing

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

1. Navigate to the "Share" section.
2. Input text into the post field.
3. Select hashtags and tags if desired.

4. Click the "Share" button.

**\*\*Expected Result:\*\*** The post is successfully shared and visible to followers or publicly.

**\*\*Test Case 2: Invalid File Sharing\*\***

**\*\*Test Case ID:\*\*** CS-02

**\*\*Test Case Title:\*\*** Verify that uploading unsupported file types is prevented.

**\*\*Test Case Description:\*\*** This test case verifies that the platform correctly rejects files that are not supported for sharing.

**\*\*Test Data:\*\*** .exe file

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

1. Navigate to the "Share" section.
2. Attempt to upload a file of unsupported type.

**\*\*Expected Result:\*\*** An error message indicating unsupported file type is displayed.

**\*\*Test Case 3: Share with Private Audience\*\***

**\*\*Test Case ID:\*\*** CS-03

**\*\*Test Case Title:\*\*** Verify that users can share content with private followers.

**\*\*Test Case Description:\*\*** This test case verifies that users can select specific followers and share content only with them.

**\*\*Test Data:\*\*** list of private followers

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

1. Navigate to the "Share" section.
2. Select followers from the "Privacy" menu.

3. Choose "Share with followers" option.

**\*\*Expected Result:\*\*** The content is shared only with the selected followers.

**\*\*Test Case 4: Edit Shared Content\*\***

**\*\*Test Case ID:\*\*** CS-04

**\*\*Test Case Title:\*\*** Verify that users can edit their previously shared content.

**\*\*Test Case Description:\*\*** This test case verifies that users can edit the details of their shared content after publication.

**\*\*Test Data:\*\*** Edited post content

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

1. Navigate to the "Shared Content" section.

2. Locate and select a previously shared post.

3. Click the "Edit" button.

**\*\*Expected Result:\*\*** The post details are editable.

**\*\*Test Case 5: Post Feedback Tracking\*\***

**\*\*Test Case ID:\*\*** CS-05

**\*\*Test Case Title:\*\*** Verify that users receive feedback on shared content.

**\*\*Test Case Description:\*\*** This test case verifies that users receive feedback in the form of likes, comments, and shares for their shared content.

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

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

1. Share a post.

2. Observe the number of likes, comments, and shares.

**\*\*Expected Result:\*\*** The post accumulates likes, comments, and shares from followers.

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## **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 Privacy Settings Feature

**\*\*Test Case ID:\*\* TC-PS-001**

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

**\*\*Test Case Description:\*\* This test case verifies that users can successfully set their profile privacy to public, allowing anyone on the platform to view their information.**

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

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

1. Navigate to profile settings.
2. Select "Privacy" section.
3. Choose "Public" from the privacy level dropdown.
4. Verify that profile information becomes visible to all users.

**\*\*Expected Result:\*\* Profile is publicly accessible.**

**\*\*Test Case ID:\*\* TC-PS-002**

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

**\*\*Test Case Description:\*\* This test case verifies that users can change their privacy settings at any time, even after initially setting their profile to a specific privacy level.**

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

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

1. Set privacy level to "Private" or "Restricted".
2. Attempt to change the privacy level to a different setting.
3. Verify that the privacy setting is updated in the profile settings.

**\*\*Expected Result:\*\* Privacy setting is adjusted accordingly.**

**\*\*Test Case ID:\*\* TC-PS-003**

**\*\*Test Case Title:\*\* Verify control over visibility of individual posts**

**\*\*Test Case Description:\*\* This test case verifies that users can control the visibility of individual posts by adjusting privacy settings for each post.**

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

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

1. Create a post with specific privacy settings.
2. Access the post settings.
3. Modify the privacy settings for the post.
4. Verify that only authorized users can access the post.

**\*\*Expected Result:\*\* Post privacy is adjusted based on user-defined settings.**

**\*\*Test Case ID:\*\* TC-PS-004**

**\*\*Test Case Title:\*\* Verify that system respects privacy settings immediately**

**\*\*Test Case Description:\*\* This test case verifies that the system immediately respects user-defined privacy settings and does not allow unauthorized access to private or restricted content.**

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

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

1. Set privacy level to "Private" or "Restricted".
2. Attempt to access private content of other users.
3. Verify that access is denied and appropriate notification is shown.

**\*\*Expected Result:\*\* Privacy settings are enforced, and unauthorized access is blocked.**

**\*\*Test Case ID:\*\* TC-PS-005**

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

**\*\*Test Case Description:\*\* This test case verifies that users receive notification when their privacy settings are modified.**

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

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

1. Change privacy settings.
2. Observe notification history.
3. Verify that a notification is generated and displayed to the user.

**\*\*Expected Result:\*\* User receives notification of privacy setting changes.**

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## **Data - 6**

### **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**

**\*\*1. Verify that users receive notifications for likes\*\***

**\*\*Test Case ID:\*\* NC-1**

**\*\*Test Case Description:\*\*** This test case checks if users receive notifications when others like their posts/content.

**\*\*Test Data:\*\*** Post with 5 likes from different users.

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

- Login as a user.
- Create or share a post.
- Like the post from different user accounts.
- Verify that a notification is received for each like.

**\*\*Expected Result:\*\*** User receives a notification for each like received.

**\*\*2. Verify that users receive notifications for comments\*\***

**\*\*Test Case ID:\*\* NC-2**

**\*\*Test Case Description:\*\*** This test case verifies if users receive notifications when others comment on their posts/content.

**\*\*Test Data:\*\*** Post with 3 comments from different users.

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

- Login as a user.
- Create or share a post.
- Have 3 different users comment on the post.
- Verify that a notification is received for each comment.

**\*\*Expected Result:\*\*** User receives a notification for each comment received.

**\*\*3. Verify that users are notified of new friend requests\*\***

**\*\*Test Case ID:\*\* NC-3**

**\*\*Test Case Description:\*\*** This test case checks if users receive notifications when someone sends them a friend request.

**\*\*Test Data:\*\*** User receives a friend request from another user.

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

- Login as a user.
- Another user sends a friend request.
- Verify that a notification is received for the friend request.

**\*\*Expected Result:\*\*** User receives a notification for the friend request.

**\*\*4. Verify that notifications are displayed in real-time\*\***

**\*\*Test Case ID:\*\* NC-4**

**\*\*Test Case Description:\*\*** This test case checks if notifications are delivered and displayed in real-time.

**\*\*Test Data:\*\*** User receives multiple notifications simultaneously.

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

- Login as a user.
- Perform actions that trigger notifications (likes, comments, friend requests).
- Verify that notifications appear live, in the order they were received.

**\*\*Expected Result:\*\*** Notifications appear in real-time, reflecting the latest activity.

**\*\*5. Verify that users can customize notification preferences\*\***

**\*\*Test Case ID:\*\* NC-5**

**\*\*Test Case Description:\*\*** This test case verifies if users can configure their notification preferences and select which notifications to receive.

**\*\*Test Data:\*\*** Custom notification preferences are set for different activities.

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

- Login as a user.
- Go to notification settings.
- Customize notification preferences for different activities.
- Verify that selected notifications are enabled and disabled accordingly.

**\*\*Expected Result:\*\*** User can effectively customize their notification preferences.

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Social Media Platform

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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:**

## Social Media Platform Search Functionality Test Cases

**\*\*Test Case 1: Basic Keyword Search\*\***

**\*\*Test Case ID:\*\* 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 search for keywords in the newsfeed, profiles, and topics and receive relevant results.

**\*\*Test Data:\*\*** "Social media", "technology", "users"

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

- Navigate to the newsfeed.
- Enter a search query into the search bar.
- Verify that the search results display relevant content.

**\*\*Test Case 2: Hashtag Search\*\***

**\*\*Test Case ID:\*\*** SM-Search-02

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

**\*\*Test Case Description:\*\*** This test case verifies that users can search for hashtags in the newsfeed and discover related discussions.

**\*\*Test Data:\*\*** #SocialMedia, #Technology, #Users

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

- Navigate to the newsfeed.
- Enter a hashtag into the search bar.
- Verify that the search results list relevant discussions and posts using that hashtag.

**\*\*Test Case 3: Advanced Search Filters\*\***

**\*\*Test Case ID:\*\*** SM-Search-03

**\*\*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 display only specific



content types, such as posts, videos, or images.

**\*\*Test Data:\*\*** "Posts", "Images", "Videos"

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

- Perform a keyword search.
- Select the desired content type filter.
- Verify that only the specified content type is displayed in the results.

**\*\*Test Case 4: Search Suggestions\*\***

**\*\*Test Case ID:\*\*** SM-Search-04

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

**\*\*Test Case Description:\*\*** This test case verifies that the search bar provides relevant suggestions as users type their search query.

**\*\*Test Data:\*\*** "Social", "Social media", "Tech"

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

- Open the search bar.
- Start typing a search query.
- Verify that appropriate suggestions appear below the input field.

**\*\*Test Case 5: Edge Case - Empty Search\*\***

**\*\*Test Case ID:\*\*** SM-Search-05

**\*\*Test Case Title:\*\*** Verify that the search function handles empty search queries gracefully.

**\*\*Test Case Description:\*\*** This test case verifies that the platform displays appropriate feedback and results when a user enters an empty search query.

**\*\*Test Data:\*\*** "" (empty string)

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

- Enter an empty string into the search bar.
- Verify that a friendly message is displayed indicating that no search terms were entered.

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## **Data - 8**

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### **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:

### ## Social Media Platform - Hashtags & Tagging Test Cases

**\*\*Test Case ID:\*\*** SM-HT-001

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

**\*\*Test Case Description:\*\*** This test case verifies that users can successfully add hashtags to their posts and that the hashtags are saved and displayed correctly.

**\*\*Test Data:\*\*** "This is a test post", "#Testing123", "@username"

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

- Login to the platform with a user account.
- Create a new post.
- Enter text in the post content field.
- Click the "Add Hashtags" button.
- Enter the desired hashtags in the input field.
- Submit the post.

**\*\*Expected Result:\*\*** The post is saved with the added hashtags displayed alongside the content.

**\*\*Test Case ID:\*\*** SM-HT-002

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

**\*\*Test Case Description:\*\*** This test case verifies that users can tag other profiles, brands, or locations in their posts and that the tags are associated correctly.

**\*\*Test Data:\*\*** "User@username", "@brandname", "LocationName"

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

- As above (Test Case ID: SM-HT-001)
- While adding hashtags, select other profiles, brands, or locations from the suggestions.
- Submit the post.

**\*\*Expected Result:\*\*** The post is saved with the tags displayed alongside the content.

**\*\*Test Case ID:\*\*** SM-HT-003

**\*\*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 hashtags or tags redirects users to relevant content.

**\*\*Test Data:\*\*** #Testing123, @username

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

- Navigate to a post containing hashtags or tags.
- Click on a hashtag or tag.

**\*\*Expected Result:\*\*** The user is redirected to a page displaying relevant content related to the hashtag or tag.

**\*\*Test Case ID:\*\*** SM-HT-004

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

**\*\*Test Case Description:\*\*** This test case verifies that users can search for content using hashtags and that the results are accurate.

**\*\*Test Data:\*\*** #Testing123

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

- Navigate to the search bar.
- Enter a hashtag in the search field.
- Submit the search.

**\*\*Expected Result:\*\*** The results page displays content associated with the searched hashtag.

**\*\*Test Case ID:\*\*** SM-HT-005

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

**\*\*Test Case Description:\*\*** This test case verifies that the system suggests relevant and popular hashtags as users type them into the hashtag input field.

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

- Navigate to the post creation page.
- Enter a few characters into the hashtag input field.
- Verify that suggested hashtags appear beneath the input field.

**\*\*Expected Result:\*\*** The suggested hashtags are related to the characters entered and frequently used by users.

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**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 1: Positive Reaction Count Display\*\***

**\*\*Test Case ID:\*\* TC-1**

**\*\*Test Case Title:\*\*** Verify that the reaction count for posts is correctly displayed.

**\*\*Test Case Description:\*\*** This test case ensures that the number of reactions displayed alongside a post accurately reflects the number of users who have reacted to it.

**\*\*Test Data:\*\*** A post with multiple reactions.

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

- Create a post.
- React to the post using various emojis.
- Verify that the reaction count displayed on the post updates to reflect the number of reactions.

#### **\*\*Test Case 2: Negative Reaction Input\*\***

**\*\*Test Case ID:\*\* TC-2**

**\*\*Test Case Title:\*\*** Verify that reacting to a post with invalid characters is handled gracefully.

**\*\*Test Case Description:\*\*** This test case ensures that the system gracefully handles invalid characters entered during reaction selection.

**\*\*Test Data:\*\*** Special characters or extended ASCII characters.

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

- Attempt to react to a post using invalid characters.
- Verify that an appropriate error message is displayed.

### **\*\*Test Case 3: Wide Range of Emojis\*\***

**\*\*Test Case ID:\*\* TC-3**

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

**\*\*Test Case Description:\*\*** This test case ensures that the platform supports a diverse set of emojis, covering various emotions and cultural contexts.

**\*\*Test Data:\*\*** Comprehensive list of emojis from different categories.

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

- Select various emojis from different categories.
- Verify that all selected emojis are displayed correctly.

### **\*\*Test Case 4: Reaction Removal and Change\*\***

**\*\*Test Case ID:\*\* TC-4**

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

**\*\*Test Case Description:\*\*** This test case ensures that users can manage their reactions easily and change them if desired.

**\*\*Test Data:\*\*** A post with existing reactions.

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

- React to a post using multiple emojis.
- Select the "Remove Reaction" option for an emoji.
- Verify that the reaction is removed from the post.

- Repeat the process with a different emoji, ensuring the change is reflected.

**\*\*Test Case 5: Edge Case - Large Volume of Reactions\*\***

**\*\*Test Case ID:\*\* TC-5**

**\*\*Test Case Title:\*\*** Verify system performance under heavy load of reactions.

**\*\*Test Case Description:\*\*** This test case simulates a scenario where many users react to a post simultaneously, testing the platform's scalability and performance.

**\*\*Test Data:\*\*** A popular post with a large volume of concurrent reactions.

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

- Create a high-engagement post.
- Simulate multiple users reacting to the post simultaneously.
- Monitor system performance metrics like response time and stability.

**Data - 10**

**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:

### ## Social Media Platform - Live Streaming Test Cases

**\*\*Test Case 1: Verify that users can start a live stream\*\***

\* **\*\*Test Case ID:\*\*** SM-LIVE-1

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

\* **\*\*Test Case Description:\*\*** This test case verifies that users can successfully initiate a live stream from their profiles.

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

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

\* **\*\*Preconditions:\*\*** User is logged in, has enabled live streaming permissions.

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

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

1. Navigate to the Live Streaming page.
2. Click the "Start Live Stream" button.

3. Confirm the live stream starts and the "Going Live" indicator is displayed.

\* \*\*Expected Result:\*\* Livestream starts successfully and indicator displays.

\* \*\*Severity:\*\* Major

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

\*\*Test Case 2: Verify that live streams can be limited to followers\*\*

\* \*\*Test Case ID:\*\* SM-LIVE-2

\* \*\*Test Case Title:\*\* Verify that live streams can be limited to followers

\* \*\*Test Case Description:\*\* This test case confirms that live streams can be restricted to only followers of the streamer.

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

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

\* \*\*Preconditions:\*\* User has at least one follower.

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

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

1. Start a live stream with "Followers only" enabled.
2. Observe audience count remains at 0 for non-followers.

\* \*\*Expected Result:\*\* Only followers can view the live stream.

\*\*Test Case 3: Verify viewers can interact with the streamer\*\*

\* \*\*Test Case ID:\*\* SM-LIVE-3

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

\* \*\*Test Case Description:\*\* This test case checks that viewers can leave comments and reactions during a live stream.

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

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

\* \*\*Preconditions:\*\* User joins a live stream.

\* \*\*Test Data:\*\* Sample comment or reaction.

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

1. Join a live stream.

2. Compose and send a comment or reaction.

\* \*\*Expected Result:\*\* Comment/reaction is displayed on the live stream.

\*\*Additional Test Cases:\*\*

- \*\*Test Case 4:\*\* Verify that the stream displays viewer count and live comments.

- \*\*Test Case 5:\*\* Verify that users can save the live stream for later viewing.

\*\*Note:\*\* Additional test cases can be created to cover other acceptance criteria, edge cases, negative scenarios, and other functionality aspects of the Live Streaming feature.

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## **Data - 11**

### **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 Stories Feature

**\*\*1. Verify that a user can create a story with a photo\*\***

**\*\*Test Case ID:\*\* ST-Stories-01**

**\*\*Test Case Description:\*\*** This test case verifies the functionality of adding a photo to a story.

**\*\*Test Suite:\*\*** Stories Functionality

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

**\*\*Preconditions:\*\***

- User has logged into the platform.
- The Stories feature is available.

**\*\*Test Data:\*\*** Valid photo file

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

1. Navigate to the Stories section.
2. Click on the "New Story" button.
3. Select a photo from the device library.
4. Verify that the photo is uploaded and displayed in the story editor.

**\*\*Expected Result:\*\*** The photo is uploaded and displayed correctly in the story.

**\*\*2. Verify that stories disappear after 24 hours\*\***

**\*\*Test Case ID:\*\*** ST-Stories-02

**\*\*Test Case Description:\*\*** This test case verifies that stories automatically disappear after 24 hours.

**\*\*Test Suite:\*\*** Stories Functionality

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

**\*\*Preconditions:\*\***

- A story has been created with content.

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

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

1. Create a story with content.
2. Verify that the story is displayed in the Stories section.
3. Wait for 24 hours.
4. Verify that the story has disappeared from the Stories section.

**\*\*Expected Result:\*\*** The story disappears from the platform after 24 hours.

**\*\*3. Verify that users can see who viewed their stories\*\***

**\*\*Test Case ID:\*\*** ST-Stories-03

**\*\*Test Case Description:\*\*** This test case verifies that users can view a list of users who have viewed their stories.

**\*\*Test Suite:\*\*** Stories Functionality

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

**\*\*Preconditions:\*\***

- A user has created a story.
- Other users have viewed the story.

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

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

1. Create a story with content.
2. Share the story with other users.
3. Navigate to your own story.
4. Verify that a list of viewers is displayed beneath the story.

**\*\*Expected Result:\*\*** The list of viewers who have seen the story is displayed.

**\*\*4. Verify that users can share stories publicly or with selected followers\*\***

**\*\*Test Case ID:\*\*** ST-Stories-04

**\*\*Test Case Description:\*\*** This test case verifies that users can choose to share stories publicly or with specific followers.

**\*\*Test Suite:\*\*** Stories Functionality

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

**\*\*Preconditions:\*\***

- A user has created a story.

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

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

1. Create a story with content.
2. Select the desired audience for the story (Public or followers).

3. Verify that the story is shared with the intended audience.

**\*\*Expected Result:\*\*** The story is shared with the chosen audience.

**\*\*5. Verify that users can add stickers and filters to their stories\*\***

**\*\*Test Case ID:\*\*** ST-Stories-05

**\*\*Test Case Description:\*\*** This test case verifies that users can add stickers and filters to their stories.

**\*\*Test Suite:\*\*** Stories Functionality

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

**\*\*Preconditions:\*\***

- A user has created a story.

**\*\*Test Data:\*\*** Various stickers and filters available in the platform

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

1. Create a story with content.
2. Select the desired sticker or filter from the available options.
3. Verify that the sticker or filter is applied to the story.

**\*\*Expected Result:\*\*** The chosen sticker or filter is applied to the story in the editor.

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## **Data - 12**

### **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 -**

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:**

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

**\*\*Test Case ID:\*\* ANC-1**

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

**\*\*Test Case Description:\*\*** This test case verifies that users can access and review detailed information about their followers' demographics, including age range, gender, location, and interests.

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

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

- Login to the platform as a user.
- Navigate to the "Analytics" section.
- Verify that the "Follower Demographics" tab is displayed.
- Review the breakdown of follower demographics.

**\*\*Expected Result:\*\*** The follower demographics data is displayed accurately and clearly.

**\*\*Test Case 2:\*\***

**\*\*Test Case ID:\*\* ANC-2**

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

**\*\*Test Case Description:\*\*** This test case ensures that the platform provides detailed data on post reach and engagement metrics, including likes, comments, shares, and impressions.

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

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

- Create a post on the platform.
- Navigate to the "Analytics" section.
- Verify that the "Post Reach and Engagement" tab is displayed.
- Review the post reach and engagement metrics.

**\*\*Expected Result:\*\*** The post reach and engagement metrics are displayed accurately.

**\*\*Test Case 3:\*\***

**\*\*Test Case ID:\*\* ANC-3**

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

**\*\*Test Case Description:\*\* This test case validates that users can track their audience growth over time.**

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

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

- Establish a baseline of followers.
- Track the number of followers over time.
- Review the audience growth trends in the analytics section.

**\*\*Expected Result:\*\* Audience growth trends are displayed accurately and consistently.**

**\*\*Test Case 4:\*\***

**\*\*Test Case ID:\*\* ANC-4**

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

**\*\*Test Case Description:\*\* This test case ensures that the analytics are presented in a clear and intuitive manner.**

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

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

- Navigate to the "Analytics" section.
- Review the layout and presentation of the analytics.
- Verify that the data is easily understandable.

**\*\*Expected Result:\*\* The analytics are displayed in a user-friendly format.**

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

**\*\*Test Case ID:\*\*** ANC-5

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

**\*\*Test Case Description:\*\*** This test case verifies that users can filter analytics by specific time ranges and content types.

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

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

- Navigate to the "Analytics" section.
- Select a specific time range.
- Choose a content type to filter the results.

**\*\*Expected Result:\*\*** The analytics are filtered based on the specified time range and content type.

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**Data - 13**

**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:**

## Test Cases for Events and Groups Feature

**\*\*Test Case 1:\*\*** Verify that users can create an event with valid data.

\* **\*\*Test Data:\*\*** Event name, date, time, location, description, privacy settings

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

\* Login as a user.

\* Navigate to the "Events" page.

\* Click "Create Event."

\* Fill in event details and select privacy settings.

\* Click "Create Event."

\* **\*\*Expected Result:\*\*** Event is created successfully and displayed on the Events page.

**\*\*Test Case 2:\*\*** Verify that users can join an existing event.

\* \*\*Test Data:\*\* Existing event with open registration.

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

- \* Navigate to the "Events" page.

- \* Find an upcoming event and click "Join Event."

- \* Enter your name and email address.

- \* Click "Join."

\* \*\*Expected Result:\*\* User is successfully registered for the event and displayed on the event's attendee list.

\*\*Test Case 3:\*\* Verify that event details include date, time, location, and description.

\* \*\*Test Data:\*\* Existing event with complete details.

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

- \* Navigate to the "Events" page.

- \* Find the event and check its details.

\* \*\*Expected Result:\*\* Event details including date, time, location, and description are displayed correctly.

\*\*Test Case 4:\*\* Verify that users can RSVP to events and see the list of attendees.

\* \*\*Test Data:\*\* Existing event with RSVP options enabled.

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

- \* Navigate to the "Events" page.

- \* Find the event and click "RSVP."

- \* Select your attendance status.

\* \*\*Expected Result:\*\* User's RSVP status is updated and the list of attendees is displayed with their names and contact information.

**\*\*Test Case 5:\*\*** Verify that joining a group allows participation in discussions.

**\* \*\*Test Data:\*\*** Existing group with open discussions.

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

- \* Navigate to the "Groups" page.

- \* Find the group and click "Join Group."

- \* Join discussions and post messages.

**\* \*\*Expected Result:\*\*** User can actively participate in discussions within the group.

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## **Data - 14**

### **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**

**\*\*Test Case 1:\*\*** Verify that users can apply for monetization options.

**\*\*Test Case ID:\*\*** MON-01

**\*\*Test Case Description:\*\*** This test case verifies the user interface and functionality of the application process for monetization options.

**\*\*Test Data:\*\*** Active user account, valid email address

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

- Navigate to the "Monetization" section in profile settings.
- Click on the "Apply for Monetization" button.
- Enter required information and submit the application.

**\*\*Expected Result:\*\*** The request is submitted successfully and users receive confirmation notification.

**\*\*Test Case 2:\*\*** Verify that monetization includes advertising revenue.

**\*\*Test Case ID:\*\*** MON-02

**\*\*Test Case Description:\*\*** This test case verifies that the platform offers advertising revenue as a monetization option.



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

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

- Go to the "Monetization" section.
- Check if advertising revenue is listed as a monetization option.

**\*\*Expected Result:\*\*** Advertising revenue is displayed as a selectable option.

**\*\*Test Case 3:\*\*** Verify that users can receive payments through the platform.

**\*\*Test Case ID:\*\*** MON-03

**\*\*Test Case Description:\*\*** This test case verifies the functionality of payment processing for monetization.

**\*\*Test Data:\*\*** Test payment method (e.g., credit card)

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

- Select a monetization option that involves payments.
- Input payment information.
- Initiate payment process.

**\*\*Expected Result:\*\*** Payment is processed successfully and reflected in user earnings report.

**\*\*Test Case 4:\*\*** Verify that detailed earnings reports are available.

**\*\*Test Case ID:\*\*** MON-04

**\*\*Test Case Description:\*\*** This test case verifies the availability and accessibility of detailed earnings reports.

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

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

- Access the "Earnings" section.
- Review the detailed earnings report.

**\*\*Expected Result:\*\*** The report provides comprehensive information about earnings per monetization

method.

**\*\*Test Case 5:\*\*** Verify that monetization eligibility requirements are clearly stated.

**\*\*Test Case ID:\*\*** MON-05

**\*\*Test Case Description:\*\*** This test case verifies clarity of communication regarding monetization eligibility criteria.

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

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

- Review the monetization guidelines and eligibility criteria.

**\*\*Expected Result:\*\*** Eligibility requirements are clearly outlined and easily understandable.

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**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 - Explore/Discover Tab Test Cases**

**\*\*Test Case Creation Template:\*\***

**\*\*Test Case ID:\*\*** SM-Explore-001

**\*\*Test Case Title:\*\*** Verify that the Explore tab displays trending and popular content.

**\*\*Test Case Description:\*\*** Tests if the Explore tab correctly retrieves and displays content categorized as trending or popular.

**\*\*Test Suite:\*\*** Explore/Discover Tab

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

**\*\*Preconditions:\*\*** User is logged into the platform.

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

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

1. Navigate to the Explore tab.
2. Verify that curated content is displayed on the tab.
3. Check that the displayed content includes posts, accounts, and topics categorized as trending/popular.

**\*\*Expected Result:\*\*** Trending and popular content is displayed on the Explore tab.

**\*\*Severity:\*\* Minor**

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

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

**\*\*Test Case ID:\*\* SM-Explore-002**

**\*\*Test Case Title:\*\* Verify personalized content recommendations on the Explore tab.**

**\*\*Test Case Description:\*\* Tests if the Explore tab provides personalized content recommendations based on user interests and engagement.**

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

1. User sets preferences and interests in account settings.
2. Navigate to the Explore tab.
3. Verify that the displayed content recommendations align with user preferences.
4. Check for recommendations of accounts, topics, and posts relevant to user interests.

**\*\*Expected Result:\*\* Personalized content recommendations are displayed based on user preferences.**

**\*\*Severity:\*\* Medium**

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

**\*\*Test Case ID:\*\* SM-Explore-003**

**\*\*Test Case Title:\*\* Verify content filtering by category or topic.**

**\*\*Test Case Description:\*\* Tests if users can filter content on the Explore tab by category or topic.**

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

1. Navigate to the Explore tab.
2. Select a specific category or topic from the filter options.
3. Verify that the displayed content is limited to the selected category or topic.

**\*\*Expected Result:\*\* Content is filtered by selected category or topic.**

**\*\*Severity:\*\* Medium**

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

**\*\*Test Case ID:\*\* SM-Explore-004**

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

**\*\*Test Case Description:\*\* Tests if the Explore tab automatically updates with new and relevant content over time.**

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

1. Navigate to the Explore tab.
2. Monitor the displayed content over time.
3. Verify that new content related to trending topics or popular accounts is added to the tab.

**\*\*Expected Result:\*\* The Explore tab updates regularly with new content.**

**\*\*Severity:\*\* Medium**

**\*\*Priority:\*\* Medium**

**\*\*Test Case ID:\*\* SM-Explore-005**

**\*\*Test Case Title:\*\* Verify the ability to save or follow content from the Explore tab.**

**\*\*Test Case Description:\*\* Tests if users can save or follow content directly from the Explore tab.**

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

1. Navigate to the Explore tab.
2. Identify a post, account, or topic of interest.
3. Perform the action to save or follow the content.
4. Verify the saved or followed content is reflected in the user's saved content or follow list.

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

**\*\*Severity:\*\* Low**

**\*\*Priority:\*\*** Medium

**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:**

## Social Media Platform - Accessibility Features Test Cases

**\*\*Test Case 1:\*\*** Verify that alt text is displayed for images on user profiles.

**\*\*Test Case ID:\*\*** SMPA-1

**\*\*Test Case Title:\*\*** Verify that alt text is displayed for images on user profiles.

**\*\*Test Case Description:\*\*** Test if alt text is displayed correctly for uploaded images on user profiles and verifies that it accurately describes the image content.

**\*\*Test Suite:\*\*** Accessibility

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

**\*\*Preconditions:\*\*** User is logged into the platform. User has uploaded an image to their profile.

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

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

1. Navigate to a user profile.
2. Locate an image uploaded by the user.
3. Verify that an appropriate alt text attribute is displayed beside the image.
4. Verify that the alt text accurately describes the image content.

**\*\*Expected Result:\*\*** The alt text is displayed correctly for the image.

**\*\*Severity:\*\*** Minor

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

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

**\*\*Test Case 2:\*\*** Verify screen reader compatibility with the platform.

**\*\*Test Case ID:\*\*** SMPA-2

**\*\*Test Case Title:\*\*** Verify screen reader compatibility with the platform.

**\*\*Test Case Description:\*\*** Test that the platform is compatible with commonly used screen readers.

**\*\*Test Suite:\*\*** Accessibility

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

**\*\*Preconditions:\*\*** Screen reader software is installed on the device.

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

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

1. Enable screen reader software.
2. Navigate to different sections of the platform.
3. Verify that all essential elements are announced correctly by the screen reader.
4. Check for any inconsistencies or accessibility issues.

**\*\*Expected Result:\*\*** The platform is compatible with the chosen screen reader.

**\*\*Severity:\*\*** Major

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

**\*\*Type of Testing:\*\*** Accessibility Testing

**\*\*Test Case 3:\*\*** Verify that keyboard shortcuts are available for navigation.

**\*\*Test Case ID:\*\*** SMPA-3

**\*\*Test Case Title:\*\*** Verify that keyboard shortcuts are available for navigation.

**\*\*Test Case Description:\*\*** Test if key combinations are available for navigating through the main sections of the platform.

**\*\*Test Suite:\*\*** Accessibility

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

**\*\*Preconditions:\*\*** User is using a keyboard only.

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

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

1. Navigate to the platform using only keyboard.



2. Verify that key combinations exist for commonly used actions like logging in, navigating through menus, and accessing specific features.

3. Test different keyboard combinations and ensure they function as expected.

**\*\*Expected Result:\*\*** Keyboard shortcuts are available and effectively navigate the platform.

**\*\*Severity:\*\*** Medium

**\*\*Priority:\*\*** Medium

**\*\*Test Case 4:\*\*** Verify that color contrast options are provided.

**\*\*Test Case ID:\*\*** SMPA-4

**\*\*Test Case Title:\*\*** Verify that color contrast options are provided.

**\*\*Test Case Description:\*\*** Test if users can customize the platform's color contrast to improve accessibility.

**\*\*Test Suite:\*\*** Accessibility

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

**\*\*Preconditions:\*\*** User account is created.

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

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

1. Access accessibility settings page.

2. Verify that options for different color contrast levels are available.

3. Select various color combinations and ensure they improve readability.

**\*\*Expected Result:\*\*** Users can customize the platform's color contrast to their preferences.

**\*\*Severity:\*\*** Minor

**\*\*Priority:\*\*** Medium

**\*\*Test Case 5:\*\*** Verify that accessibility settings are clearly documented.

**\*\*Test Case ID:\*\* SMPA-5**

**\*\*Test Case Title:\*\* Verify that accessibility features are clearly documented.**

**\*\*Test Case Description:\*\* Test if comprehensive documentation is available for accessibility features.**

**\*\*Test Suite:\*\* Accessibility**

**\*\*Test Priority:\*\* Low**

**\*\*Preconditions:\*\* User is accessing the platform's documentation.**

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

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

1. Navigate to the accessibility documentation section.
2. Verify that detailed information is provided about each available accessibility feature.
3. Test if the documentation is clear, concise, and easily understandable.

**\*\*Expected Result:\*\* Documentation is comprehensive and clearly explains the accessibility features.**

**\*\*Severity:\*\* Trivial**

**\*\*Priority:\*\* Low**

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## **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:

#### ## Test Cases for Safety and Moderation Tools

**\*\*Test Case 1:\*\*** Verify that content moderation algorithms filter inappropriate content.

**\*\*Test Case ID:\*\*** QA-123

**\*\*Test Case Title:\*\*** Content moderation filters inappropriate content.

**\*\*Test Case Description:\*\*** Test the efficacy of content moderation algorithms in identifying and filtering out content containing inappropriate words, images, or themes.

**\*\*Test Data:\*\*** User-generated content containing various types of inappropriate content.

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

- Upload content containing potentially inappropriate content.
- Verify that the content is flagged or removed.
- Review the moderation logs for accuracy and effectiveness.

**\*\*Test Case 2:\*\*** Verify that users can report harmful or inappropriate content.

**\*\*Test Case ID:\*\*** QA-456

**\*\*Test Case Title:\*\*** Reporting harmful or inappropriate content.

**\*\*Test Case Description:\*\*** Test the functionality of the reporting system for identifying and escalating potentially harmful or inappropriate content.

**\*\*Preconditions:\*\*** A user account must be created.

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

- Locate and use the reporting tool for different kinds of inappropriate content.
- Verify that reports are delivered to the appropriate moderation team.
- Track the handling and resolution of reported issues.

**\*\*Test Case 3:\*\*** Verify that blocking capabilities are available to users.

**\*\*Test Case ID:\*\*** QA-789

**\*\*Test Case Title:\*\*** Blocking capabilities are available to users.

**\*\*Test Case Description:\*\*** Test the implementation of blocking features allowing users to block other users from interacting with them.

**\*\*Test Data:\*\*** User accounts of both blocker and blocked users.

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

- Select users to be blocked from the user settings.
- Verify that blocked users are unable to interact with the blocker.
- Ensure that blocked users receive appropriate notification.

**\*\*Test Case 4:\*\*** Verify that comment filters prevent offensive language.

**\*\*Test Case ID:\*\*** QA-1234

**\*\*Test Case Title:\*\*** Comment filters prevent offensive language.

**\*\*Test Case Description:\*\*** Test the efficiency of comment filters in removing offensive language from user comments.

**\*\*Test Data:\*\*** Comments containing offensive language.

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

- Submit comments containing offensive language.
- Verify that the comments are filtered and not published.
- Determine the severity and handling of flagged comments.

**\*\*Test Case 5:\*\*** Verify that community guidelines are enforced consistently.

**\*\*Test Case ID:\*\*** QA-5678

**\*\*Test Case Title:\*\*** Community guidelines are enforced consistently.

**\*\*Test Case Description:\*\*** Test the consistency in enforcing community guidelines across different platform features.

**\*\*Test Data:\*\*** User-generated content that violates various community guidelines.

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

- Upload content that violates community guidelines.
- Verify that appropriate notifications and actions are taken.
- Review community guidelines adherence and enforcement metrics.

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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 -**

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:**

## Test Cases for Multi-Language Support Feature

\*\*Test Case 1\*\*

**\*\*Test Case ID:\*\* MSA-ML-001**

**\*\*Test Case Title:\*\*** Verify that users can select their preferred interface language.

**\*\*Test Case Description:\*\*** This test case verifies that users can choose their desired language from the available options and the interface elements are displayed in the selected language.

**\*\*Test Data:\*\*** English, Spanish, French, Japanese

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

- Login to the platform.
- Navigate to profile settings.
- Select a different language from the "Preferred Language" dropdown menu.
- Verify that the interface elements are displayed in the chosen language.

**\*\*Expected Result:\*\*** The interface language changes successfully and all elements are displayed in the selected language.

**\*\*Test Case 2\*\***

**\*\*Test Case ID:\*\* MSA-ML-002**

**\*\*Test Case Title:\*\*** Verify that the platform offers content translation features.

**\*\*Test Case Description:\*\*** This test case verifies that users can translate their posts and messages into

different languages.

**\*\*Test Data:\*\*** "Hello World" message, English, Spanish, French

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

- Create a new post with the text "Hello World".
- Select the translation option for the post.
- Choose a target language from the available options.
- Verify that the translated text is displayed correctly.

**\*\*Expected Result:\*\*** The post content is translated into the selected language and displayed accurately.

**\*\*Test Case 3\*\***

**\*\*Test Case ID:\*\*** MSA-ML-003

**\*\*Test Case Title:\*\*** Verify that posts and messages can be translated into different languages.

**\*\*Test Case Description:\*\*** This test case verifies that users can translate their incoming posts and messages into their preferred language.

**\*\*Test Data:\*\*** Incoming post/message with various languages

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

- Send/receive a message or post in a language different from your preferred language.
- Select the translation option for the received content.



- Verify that the translated text is displayed correctly.

**\*\*Expected Result:\*\*** The received content is translated into your preferred language and displayed accurately.

**\*\*Test Case 4\*\***

**\*\*Test Case ID:\*\*** MSA-ML-004

**\*\*Test Case Title:\*\*** Verify that language preferences are saved and applied consistently.

**\*\*Test Case Description:\*\*** This test case verifies that language preferences saved by users are applied consistently throughout the platform.

**\*\*Test Data:\*\*** English, Spanish

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

- Set your preferred language to Spanish.
- Navigate across different sections of the platform.
- Verify that all interface elements and content are displayed in Spanish.

**\*\*Expected Result:\*\*** The platform consistently uses the selected language after preferences are saved.

**\*\*Test Case 5\*\***

**\*\*Test Case ID:\*\* MSA-ML-005**

**\*\*Test Case Title:\*\* Verify that the platform supports a wide range of languages**

**\*\*Test Case Description:\*\* This test case verifies that the platform supports a diverse range of languages, including both common and less widely spoken languages.**

**\*\*Test Data:\*\* Various languages from different regions**

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

- Explore the list of supported languages.
- Verify that the platform supports a wide variety of languages.

**\*\*Expected Result:\*\* The platform supports a comprehensive range of languages, catering to diverse user preferences.**

**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:

#### ## Social Media Platform - Cross-Platform Integration Test Cases

**\*\*Test Case ID:\*\* TC-1**

**\*\*Test Case Title:\*\*** Verify that users can successfully link their accounts with other social media platforms.

**\*\*Test Case Description:\*\*** This test case verifies the functionality of the account linking process to other supported social media platforms.

**\*\*Test Suite:\*\*** Cross-Platform Integration

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

**\*\*Preconditions:\*\*** User has created accounts on both the Social Media Platform and the target platform.

**\*\*Test Data:\*\*** Facebook, Twitter, Instagram

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

- User navigates to the "Connect with other platforms" section.
- User selects their preferred platform from the available options.

- User enters their login credentials for the target platform.

- User confirms the connection.

**\*\*Expected Result:\*\*** The user account is successfully linked to the target platform.

**\*\*Severity:\*\*** Minor

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

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

**\*\*Test Case ID:\*\*** TC-2

**\*\*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 (text, images, videos) to other supported platforms.

**\*\*Test Suite:\*\*** Cross-Platform Integration

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

**\*\*Preconditions:\*\*** User has linked their accounts with other social media platforms.

**\*\*Test Data:\*\*** Sample post with image and video.

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

- User creates a new post containing text, image, and video content.

- User selects the desired platforms for cross-posting.

- User publishes the post.

**\*\*Expected Result:\*\*** The post is successfully cross-posted to the selected platforms.

**\*\*Severity:\*\*** Medium

**\*\*Priority:\*\*** Medium

**\*\*Test Case ID:\*\*** TC-3

**\*\*Test Case Title:\*\*** Verify that users can sign in using Single Sign-On (SSO).

**\*\*Test Case Description:\*\*** This test case verifies the functionality of the Single Sign-On (SSO) feature for account login.

**\*\*Test Suite:\*\*** Cross-Platform Integration

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

**\*\*Preconditions:\*\*** User has enabled SSO for their accounts on both platforms.

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

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

- User navigates to the Social Media Platform login page.
- User clicks on the "Sign in with SSO" button.
- User is automatically logged in to the platform.

**\*\*Expected Result:\*\*** The user is successfully logged in without entering their credentials.

**\*\*Severity:\*\*** Minor

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

**\*\*Test Case ID:\*\*** TC-4

**\*\*Test Case Title:\*\*** Verify integration with external media sources.

**\*\*Test Case Description:\*\*** This test case verifies the functionality of integrating the Social Media Platform with external media sources for content sharing.

**\*\*Test Suite:\*\*** Cross-Platform Integration

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

**\*\*Preconditions:\*\*** User has enabled content sharing with external media sources.

**\*\*Test Data:\*\*** Sample article from an external source.

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

- User selects the "Share to External Sources" option.
- User chooses the desired external media sources.
- User shares the content on the external platforms.

**\*\*Expected Result:\*\*** The content is successfully shared on the selected external platforms.

**\*\*Severity:\*\*** Medium

**\*\*Priority:\*\*** Medium

  

**\*\*Test Case ID:\*\*** TC-5

**\*\*Test Case Title:\*\*** Verify that content sharing across platforms is seamless.

**\*\*Test Case Description:\*\*** This test case verifies the seamlessness of sharing content across different platforms without any technical barriers.

**\*\*Test Suite:\*\*** Cross-Platform Integration

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

**\*\*Preconditions:\*\*** User has connected their accounts with other social media platforms and shared content.

**\*\*Test Data:\*\*** Sample post with image and video.

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

- User attempts to share content across multiple platforms simultaneously.
- User monitors the shared content across all platforms.

**\*\*Expected Result:\*\*** The content is shared seamlessly across all platforms without errors or delays.

**\*\*Severity:\*\*** Minor

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

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**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:**

## Test Cases for Gamification and Rewards Feature

**\*\*1. Verify that users can earn points for their activities.\*\***

**\* \*\*Test Data:\*\*** Creating posts, engaging in discussions, uploading content, completing challenges

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

1. User logs in to the platform.
2. User engages in different activities as specified in Test Data.

3. Verify that points are awarded and updated in the user's profile.

4. Verify that points are correctly tracked and reflected in the user's overall score.

\* \*\*Expected Result:\*\* Points are awarded and updated appropriately for each eligible activity.

\*\*2. Verify that leaderboards display top users based on points or achievements.\*\*

\* \*\*Test Data:\*\* User profiles with varying point totals and achievements

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

1. Users engage in different activities and earn points.

2. Visit the leaderboard page and verify that users are listed in descending order of points or achievements.

3. Verify that the top users are correctly identified and displayed on the leaderboard.

\* \*\*Expected Result:\*\* Users are ranked on the leaderboard based on their points or achievements.

\*\*3. Verify that challenges are available for users to complete and earn rewards.\*\*

\* \*\*Test Data:\*\* Existing challenges with varying difficulty levels

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

1. Navigate to the challenges section and browse available challenges.

2. Verify that challenges are categorized appropriately and can be completed within the platform.

3. User completes a challenge and receives the corresponding reward.

\* \*\*Expected Result:\*\* Users can access and complete challenges to earn rewards.

\*\*4. Verify that rewards can include virtual goods, discounts, or exclusive content.\*\*



\* \*\*Test Data:\*\* Various reward types with different values and configurations

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

1. User earns rewards through challenges, achievements, or other activities.
2. Verify that different reward types are delivered according to their configuration.
3. Verify that virtual goods are awarded and can be used within the platform.

\* \*\*Expected Result:\*\* Users receive appropriate rewards based on their activities.

\*\*5. Verify that users can view their progress and achievements in a dedicated section.\*\*

\* \*\*Test Data:\*\* User profile with historical activity data

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

1. User navigates to their profile and accesses the achievements section.
2. Verify that the section displays a list of user achievements and points earned.
3. Verify that historical data is presented clearly and allows users to track their progress.

\* \*\*Expected Result:\*\* Users can review their achievement history and monitor their progress effectively.

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**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 1:\*\*** Verify that users can enter a valid task title.

**\*\*Test Case ID:\*\*** TC-1

**\*\*Test Case Title:\*\*** Verify that users can enter a valid task title.

**\*\*Test Case Description:\*\*** This test case ensures the system accepts valid task titles up to a certain length.

**\*\*Test Data:\*\*** "Create a new task," "Urgent bug fix," "Project planning session"

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

- Navigate to the task creation page.
- Enter a valid task title in the designated field.
- Submit the form.

**\*\*Expected Result:\*\*** The task is created and displayed in the task list.

**\*\*Test Case 2:\*\*** Verify that users can enter a detailed description for a task.

**\*\*Test Case ID:\*\*** TC-2

**\*\*Test Case Title:\*\*** Verify that users can enter a detailed description for a task.

**\*\*Test Case Description:\*\*** This test case ensures users can add relevant information to the task description field.

**\*\*Test Data:\*\*** "Fix the bug in the login page", "Plan the marketing strategy for the new product", "Assign team members to new tasks"

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

- Navigate to the task creation page.
- Enter a descriptive task title and due date.
- Enter a detailed description of the task in the designated field.
- Submit the form.

**\*\*Expected Result:\*\*** The task is created with the detailed description displayed.

**\*\*Test Case 3:\*\*** Verify that assigning tasks to specific team members works correctly.

**\*\*Test Case ID:\*\*** TC-3

**\*\*Test Case Title:\*\*** Verify that assigning tasks to specific team members works correctly.

**\*\*Test Case Description:\*\*** This test case ensures that tasks can be assigned to individual team members.

**\*\*Test Data:\*\*** "John Doe," "Jane Smith," "Project Manager"

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

- Navigate to the task creation page.
- Enter a task title, description, and due date.
- Select the desired team member from the available list.

- Submit the form.

**\*\*Expected Result:\*\*** The assigned team member receives the notification and the task is visible in their assigned tasks list.

**\*\*Test Case 4:\*\*** Verify that the system validates required fields when creating a task.

**\*\*Test Case ID:\*\*** TC-4

**\*\*Test Case Title:\*\*** Verify that the system validates required fields when creating a task.

**\*\*Test Case Description:\*\*** This test case ensures that the system identifies and validates required fields like title and due date.

**\*\*Test Data:\*\*** Leaving any required field blank

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

- Navigate to the task creation page.

- Leave one or more required fields blank.

- Attempt to submit the form.

**\*\*Expected Result:\*\*** An error message is displayed highlighting the required fields that were not filled out.

**\*\*Test Case 5:\*\*** Verify that the system saves and displays created tasks.

**\*\*Test Case ID:\*\*** TC-5

**\*\*Test Case Title:\*\*** Verify that the system saves and displays created tasks.

**\*\*Test Case Description:\*\*** This test case ensures that created tasks are saved to the system and displayed correctly.

**\*\*Test Data:\*\*** "New Meeting", "Review documents", "Internal feedback collection"

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

- Navigate to the task creation page.
- Enter a title, description, due date, and priority level.
- Assign the task to a team member.
- Submit the form.

**\*\*Expected Result:\*\*** The created task appears in the main task list and the user interface reflects the assigned details.

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## **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:

### ## Test Cases for Task Assignment Feature

**\*\*1. Verify that users can select team members to assign tasks.\*\***

- **\*\*Test Case ID:\*\*** TC-1
- **\*\*Test Case Description:\*\*** Tests the core functionality of assigning tasks to specific team members.
- **\*\*Test Data:\*\*** Test with multiple users and assign tasks to each.
- **\*\*Test Steps:\*\***
  - Create a task.
  - Select desired team members from the assigned-to list.
  - Verify the selected users are listed under assigned-to.
- **\*\*Expected Result:\*\*** A list of assigned users is displayed for the task.

**\*\*2. Verify that assignees receive notifications about their assigned tasks.\*\***

- **\*\*Test Case ID:\*\*** TC-2
- **\*\*Test Case Description:\*\*** Tests the push notification system for assigned tasks.
- **\*\*Test Data:\*\*** Ensure notifications are received on associated devices/accounts.
- **\*\*Test Steps:\*\***
  - Assign a task to a user.
  - Verify a notification is received on the user's device.
  - Click the notification and confirm the assigned task details.
- **\*\*Expected Result:\*\*** The assigned user receives a notification and can access the assigned task.

**\*\*3. Verify that the system displays assigned tasks in the assignee's task list.\*\***

- **\*\*Test Case ID:\*\*** TC-3
- **\*\*Test Case Description:\*\*** Tests the visibility of assigned tasks in the assigned user's task list.
- **\*\*Test Data:\*\*** Use the same data set as for TC-1 and TC-2.
- **\*\*Test Steps:\*\***
  - Assign a task to a user.
  - Log in as the assigned user.
  - Verify the assigned task is displayed in the assigned user's task list.
- **\*\*Expected Result:\*\*** The assigned user can see the assigned task in their task list.

**\*\*4. Verify that users can reassign tasks to different team members.\*\***

- **\*\*Test Case ID:\*\*** TC-4
- **\*\*Test Case Description:\*\*** Tests the flexibility to reassign tasks to other team members.
- **\*\*Test Data:\*\*** Use the same data set as for previous test cases.
- **\*\*Test Steps:\*\***
  - Assign a task to a user.
  - Reassign the same task to a different user.
  - Verify the new assignee receives notification and sees the assigned task.
- **\*\*Expected Result:\*\*** Users can easily reassign tasks to different team members.

**\*\*5. Verify that the task assignment history is tracked.\*\***

- **\*\*Test Case ID:\*\*** TC-5
- **\*\*Test Case Description:\*\*** Tests the tracking and accessibility of past task assignments.
- **\*\*Test Data:\*\*** Use the data sets from previous test cases.

- **\*\*Test Steps:\*\***

- Assign tasks to different users.
- Access the task history section.
- Verify past assigned tasks are listed with their assigned users and dates.

- **\*\*Expected Result:\*\*** The system maintains a record of all assigned tasks for future reference.

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**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

**\*\*Test Case 1:\*\*** Verify that users can set reminders for tasks based on deadlines.

**\*\*Test Case ID:\*\*** TC-1

**\*\*Test Case Title:\*\*** Setting reminders for upcoming tasks

**\*\*Test Case Description:\*\*** This test case verifies the functionality of setting reminders for tasks based on their deadlines.

**\*\*Test Data:\*\*** Deadline for a specific task.

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

- Create a task with a specific deadline.
- Go to the task's settings and enable reminders.
- Select the desired reminder frequency and delivery method.

**\*\*Expected Result:\*\*** The system should save the reminder settings and send notifications according to the defined criteria.

**\*\*Test Case 2:\*\*** Verify that reminders can be customized by urgency level.

**\*\*Test Case ID:\*\*** TC-2

**\*\*Test Case Title:\*\*** Customizing reminder urgency levels

**\*\*Test Case Description:\*\*** This test case verifies that reminders can be assigned different urgency levels to prioritize tasks.

**\*\*Test Data:\*\*** High, Medium, Low reminder urgency.

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

- Create a task with a deadline and set the initial urgency level.
- Go to the reminder settings and adjust the urgency level.

**\*\*Expected Result:\*\*** The system should update the reminder with the new urgency level.

**\*\*Test Case 3:\*\*** Verify that the system sends notifications for upcoming deadlines.

**\*\*Test Case ID:\*\*** TC-3

**\*\*Test Case Title:\*\*** Confirmation of reminder notifications

**\*\*Test Case Description:\*\*** This test case verifies that the system sends timely notifications before deadlines.

**\*\*Test Data:\*\*** Date and time of reminder notification.

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

- Set a reminder for a specific deadline.
- Approach the deadline time.

**\*\*Expected Result:\*\*** The system should send a notification reminding the user of the upcoming deadline.

**\*\*Test Case 4:\*\*** Verify that users can choose the delivery method for reminders.

**\*\*Test Case ID:\*\*** TC-4

**\*\*Test Case Title:\*\*** Selecting delivery method for reminders

**\*\*Test Case Description:\*\*** This test case verifies the functionality of choosing email or in-app delivery for reminders.

**\*\*Test Data:\*\*** Email address or selected in-app notification option.

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

- Create a reminder for a specific deadline.
- Choose the desired delivery method for reminders.

**\*\*Expected Result:\*\*** The system should save the selected delivery method and send reminders accordingly.

**\*\*Test Case 5:\*\*** Verify that reminder settings can be adjusted or disabled.

**\*\*Test Case ID:\*\*** TC-5

**\*\*Test Case Title:\*\*** Adjusting reminder settings

**\*\*Test Case Description:\*\*** This test case verifies that users can modify or disable reminder settings for tasks.

**\*\*Test Data:\*\*** Reminder frequency, delivery method.

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

- Go to the reminder settings of a task.
- Adjust or disable reminders as desired.

**\*\*Expected Result:\*\*** The system should update the reminder settings and stop sending reminders when disabled.

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## **Data - 24**

### **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

**\*\*Test Case 1\*\***

\* **\*\*Test Case ID:\*\*** TC-1

\* **\*\*Test Case Title:\*\*** Verify that users can set priority levels for tasks

\* **\*\*Test Case Description:\*\*** Tests the functionality of assigning priority levels (High, Medium, Low) to tasks.

\* **\*\*Test Data:\*\*** "Task Name", "High", "Medium", "Low"

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

- Create a new task.
- Select the desired priority level from the dropdown menu.
- Verify that the task is assigned the chosen priority.

\* **\*\*Expected Result:\*\*** The task's priority level is successfully updated in the interface.

**\*\*Test Case 2\*\***

\* \*\*Test Case ID:\*\* TC-2

\* \*\*Test Case Title:\*\* Verify that tasks can be sorted based on priority levels

\* \*\*Test Case Description:\*\* Tests the sorting functionality of tasks based on their assigned priority levels.

\* \*\*Test Data:\*\* Multiple tasks with different priority levels

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

- Create tasks with different priority levels.
- Use the sorting filter to prioritize tasks.
- Verify that tasks are sorted in the correct order of priority.

\* \*\*Expected Result:\*\* Tasks are sorted in the order of their assigned priority levels.

\*\*Test Case 3\*\*

\* \*\*Test Case ID:\*\* TC-3

\* \*\*Test Case Title:\*\* Verify that users can change the priority level of a task

\* \*\*Test Case Description:\*\* Tests the ability to dynamically change the priority of existing tasks.

\* \*\*Test Data:\*\* Existing task with assigned priority

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

- Select an existing task.
- Change the priority level from the dropdown menu.
- Verify that the task's priority level in the list and details is updated.

\* \*\*Expected Result:\*\* The task's priority level is successfully updated.

\*\*Test Case 4\*\*

\* \*\*Test Case ID:\*\* TC-4

\* \*\*Test Case Title:\*\* Verify that the system visually distinguishes tasks based on priority levels

\* \*\*Test Case Description:\*\* Tests the visual representation of different priority levels in the interface.

\* \*\*Test Data:\*\* Tasks with different priority levels

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

- Create tasks with different priority levels.

- Verify that tasks are displayed with different visual indicators based on their priority.

\* \*\*Expected Result:\*\* Tasks are visually differentiated by their assigned priority levels.

**\*\*Test Case 5\*\***

\* \*\*Test Case ID:\*\* TC-5

\* \*\*Test Case Title:\*\* Verify that tasks without a specified priority default to Medium

\* \*\*Test Case Description:\*\* Tests the default priority assigned to tasks without explicitly setting a priority.

\* \*\*Test Data:\*\* Task without a defined priority

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

- Create a new task without selecting a priority level.

- Verify that the task's priority level is automatically set to "Medium."

\* \*\*Expected Result:\*\* The default priority level for new tasks is "Medium."

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**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

**\*\*Test Case 1:\*\*** Verify that users can create subtasks under a main task.

**\*\*Test Case ID:\*\*** TC-1

**\*\*Test Case Title:\*\*** Create subtasks under main task

**\*\*Test Case Description:\*\*** This test case verifies that users can create subtasks directly under a main task and associate them with the correct parent task.

**\*\*Test Data:\*\*** Main task name, subtask description, subtask due date

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

1. Create a new main task.

2. Click on "Add Subtask" button.
3. Enter the subtask description and due date.
4. Assign the subtask to a user or leave it unassigned.
5. Verify that the subtask is listed under the main task and linked correctly.

**\*\*Test Case 2:\*\*** Verify that subtasks can have their own due dates and assignees.

**\*\*Test Case ID:\*\*** TC-2

**\*\*Test Case Title:\*\*** Subtasks can have separate due dates and assignees

**\*\*Test Case Description:\*\*** This test case ensures that subtasks can be assigned individual due dates and assigned to specific users.

**\*\*Test Data:\*\*** Subtask description, due date, assignee

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

1. Create a subtask under a main task.
2. Click on the subtask.
3. Edit the due date and assignee for the subtask.
4. Verify that the new due date and assignee are reflected in the subtask details.

**\*\*Test Case 3:\*\*** Verify that the system tracks the progress of each subtask.

**\*\*Test Case ID:\*\*** TC-3

**\*\*Test Case Title:\*\*** Track progress of subtasks

**\*\*Test Case Description:\*\*** This test case verifies that the system tracks the completion status of subtasks and displays the progress of both individual subtasks and the main task.

**\*\*Test Data:\*\*** Partially completed subtasks

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

1. Create a subtask under a main task and mark it as completed.



2. Verify that the subtask progress bar reflects the completion status.
3. Complete the main task and check that all associated subtasks are marked as completed.

**\*\*Test Case 4:\*\*** Verify that subtasks can be marked as complete independently of the main task.

**\*\*Test Case ID:\*\*** TC-4

**\*\*Test Case Title:\*\*** Complete subtasks without completing main task

**\*\*Test Case Description:\*\*** This test case ensures that subtasks can be marked as completed regardless of the status of the main task.

**\*\*Test Data:\*\*** Completed subtask

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

1. Create a subtask under a main task.
2. Mark the subtask as completed.
3. Verify that the subtask status remains complete even if the main task remains open.

**\*\*Test Case 5:\*\*** Verify that dependencies between subtasks can be set.

**\*\*Test Case ID:\*\*** TC-5

**\*\*Test Case Title:\*\*** Set dependencies between subtasks

**\*\*Test Case Description:\*\*** This test case verifies that users can establish dependencies between subtasks, ensuring that dependent subtasks are completed before their dependencies.

**\*\*Test Data:\*\*** Subtasks with dependencies

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

1. Create two subtasks under a main task.
2. Set a dependency between the two subtasks.
3. Complete the prerequisite subtask.
4. Verify that the dependent subtask becomes enabled for completion.

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## **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:**

## Test Cases for Task Dependencies

\*\*Test Case 1:\*\* Verify that users can set dependencies between tasks.

**\*\*Test Case ID:\*\* TC-1**

**\*\*Test Case Title:\*\*** Verify that users can set dependencies between tasks.

**\*\*Test Case Description:\*\*** Test adding dependencies between multiple tasks and verify that the order of completion reflects the dependencies.

**\*\*Test Data:\*\*** Task A, Task B, Task C

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

1. Create two tasks.
2. Define a dependency between Task A and Task B.
3. Create a third task dependent on both Task A and Task B.

**\*\*Expected Result:\*\*** Task dependencies are displayed correctly in the task details.

**\*\*Test Case 2:\*\*** Verify that the system displays dependencies in the task details.

**\*\*Test Case ID:\*\* TC-2**

**\*\*Test Case Title:\*\*** Verify that the system displays dependencies in the task details.

**\*\*Test Case Description:\*\*** Test that the list of dependencies is displayed clearly and logically in the task details.

**\*\*Test Data:\*\*** Existing task with defined dependencies

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

1. Select a task with dependencies.
2. Verify that the list of dependencies is displayed below the task details.
3. Verify that the displayed dependencies match the actual dependencies set.

**\*\*Expected Result:\*\*** Dependencies are listed and clearly visualized in the task details.

**\*\*Test Case 3:\*\*** Verify that tasks cannot be marked as complete if dependent tasks are not completed.

**\*\*Test Case ID:\*\* TC-3**

**\*\*Test Case Title:\*\*** Verify that tasks cannot be marked as complete if dependent tasks are not completed.

**\*\*Test Case Description:\*\*** Test that completing a task with dependencies throws an error if any dependent tasks remain undone.

**\*\*Test Data:\*\*** Dependent tasks with a completed task

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

1. Create a task with dependent tasks.
2. Try to mark the main task as completed.
3. Verify that the task remains in an open state.

**\*\*Expected Result:\*\*** Dependency violation prevents completion of the primary task.

**\*\*Test Case 4:\*\*** Verify that users can update or remove dependencies as needed.

**\*\*Test Case ID:\*\* TC-4**

**\*\*Test Case Title:\*\*** Verify that users can update or remove dependencies as needed.

**\*\*Test Case Description:\*\*** Test updating or removing dependencies between existing tasks.

**\*\*Test Data:\*\*** Existing task with defined dependencies

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

1. Select a task with dependencies.
2. Update/Remove existing dependencies.
3. Verify that the updated/removed dependencies are reflected in the task details.

**\*\*Expected Result:\*\*** Dependencies can be modified as needed.

**\*\*Test Case 5:\*\*** Verify that the system provides alerts or warnings if a dependent task is not completed.

**\*\*Test Case ID:\*\* TC-5**

**\*\*Test Case Title:\*\* Verify that the system provides alerts or warnings if a dependent task is not completed.**

**\*\*Test Case Description:\*\* Test that the system sends notifications or alerts when a dependent task is overdue.**

**\*\*Test Data:\*\* Dependent tasks with an approaching deadline**

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

1. Create a task with a dependent deadline.
2. Approach the deadline of the dependent task.
3. Verify that the system alerts the user about the approaching deadline.

**\*\*Expected Result:\*\* Users receive timely notifications before deadline**

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## **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:**

## Test Cases for Task Comments and Collaboration

**\*\*Test Case ID:\*\* TC-1**

**\*\*Test Case Title:\*\*** Verify that users can add comments to tasks

**\*\*Test Case Description:\*\*** This test case verifies that users can successfully add text comments to tasks within the interface.

**\*\*Test Suite:\*\*** Feature: Task Comments

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

**\*\*Preconditions:\*\*** User is logged in to the application, has created a task.

**\*\*Test Data:\*\*** "This is a test comment."

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

- Create a new task.
- Click on the "Comment" icon.
- Enter the comment text.
- Click on "Add Comment."

**\*\*Expected Result:\*\*** The comment is successfully added to the task and displayed in the comment section.

**\*\*Test Case ID:\*\*** TC-2

**\*\*Test Case Title:\*\*** Verify that comments can include attachments and links

**\*\*Test Case Description:\*\*** This test case verifies that comments can contain both attachments and hyperlinks.

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

- Create a new task.
- Click on the "Comment" icon.
- Select a file from your computer to attach.
- Enter a link in the "Link/URL" field.
- Click on "Add Comment."

**\*\*Expected Result:\*\*** The comment is successfully added to the task and both the attached file and link are displayed.

**\*\*Test Case ID:\*\*** TC-3

**\*\*Test Case Title:\*\*** Verify that users can reply to and edit their comments

**\*\*Test Case Description:\*\*** This test case verifies that users can reply to and edit their previously added comments.

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

- Create a new task.
- Add a comment to the task.
- Click on the "Reply" button under the comment.
- Enter your reply text.
- Click on "Reply."
- Click on the "Edit" button under your comment.
- Edit the comment text.

**\*\*Expected Result:\*\*** The replies and edits are successfully saved and displayed under the original comment.

**\*\*Test Case ID:\*\*** TC-4

**\*\*Test Case Title:\*\*** Verify that the system notifies users of new comments

**\*\*Test Case Description:\*\*** This test case verifies that the system sends notifications to users when new comments are added to tasks.

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

- Create a new task and assign it to another user.
- Add a comment to the task.
- Verify that the assigned user receives a notification.

**\*\*Expected Result:\*\*** The assigned user receives a notification with details about the new comment.

**\*\*Test Case ID:\*\*** TC-5

**\*\*Test Case Title:\*\*** Verify that comments are displayed in chronological order

**\*\*Test Case Description:\*\*** This test case verifies that comments are listed in reverse chronological order, with the most recent comments appearing at the top.

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

- Create three comments on a task.
- Refresh the page.

**\*\*Expected Result:\*\*** The comments are displayed in the order they were created, with the most recent comment appearing at the top.

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## **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 File Attachments Feature

**\*\*Test Case 1:\*\*** Verify that users can attach multiple files to a task.

**\* \*\*Test Case ID:\*\*** QA-123

**\* \*\*Test Case Title:\*\*** Attaching multiple files to a task

**\* \*\*Test Case Description:\*\*** This test case verifies that users can attach up to 5 files of various types to a single task.

**\* \*\*Test Data:\*\*** 5 different files of different types (document, image, link)

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

- Create a new task.
- Click the "Attach Files" button.
- Select multiple files from the computer.

- Verify that all selected files are attached to the task.

\* \*\*Expected Result:\*\* All selected files are successfully attached to the task.

\*\*Test Case 2:\*\* Verify that the system limits the size of attachments to prevent data overload.

\* \*\*Test Case ID:\*\* QA-456

\* \*\*Test Case Title:\*\* Limiting file size attachment

\* \*\*Test Case Description:\*\* This test case verifies that the system prevents users from attaching files exceeding a size limit.

\* \*\*Test Data:\*\* 1 large file exceeding the size limit

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

- Create a new task.
- Attempt to attach the large file.
- Observe if the attachment is rejected and an error message is displayed.

\* \*\*Expected Result:\*\* The large file is rejected, and an appropriate error message is displayed.

\*\*Test Case 3:\*\* Verify that users can remove attachments if needed.

\* \*\*Test Case ID:\*\* QA-789

\* \*\*Test Case Title:\*\* Removing attached files

\* \*\*Test Case Description:\*\* This test case verifies that users can remove previously attached files from a task.

\* \*\*Test Data:\*\* 2 attached files

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

- Create a new task and attach two files.

- Click the "Remove Attachment" button next to a file.
- Verify that the file is removed from the list of attached files.

\* \*\*Expected Result:\*\* The selected file is removed from the attached files list.

**\*\*Test Case 4:\*\*** Verify that various file types can be attached to tasks.

\* \*\*Test Case ID:\*\* QA-321

\* \*\*Test Case Title:\*\* Attaching different file types

\* \*\*Test Case Description:\*\* This test case verifies that the system accepts various file types including documents, images, and links.

\* \*\*Test Data:\*\* 3 different file types (document, image, link)

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

- Create a new task.
- Attach each of the different file types to the task.
- Verify that all attached files are displayed correctly.

\* \*\*Expected Result:\*\* All supported file types are attached successfully.

**\*\*Test Case 5:\*\*** Verify that users receive notifications for attachments exceeding certain sizes.

\* \*\*Test Case ID:\*\* QA-987

\* \*\*Test Case Title:\*\* Notifications for large attachments

\* \*\*Test Case Description:\*\* This test case verifies that users receive notifications when attempting to attach files exceeding a specific size.

\* \*\*Test Data:\*\* 1 large file exceeding the size limit

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

- Create a new task.
- Attempt to attach the large file.
- Verify that an appropriate notification is displayed to the user.

**\*\*Expected Result:\*\*** The user receives a notification indicating that the file size is too large.

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## **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:

### ## Test Cases for Recurring Tasks Feature

**\*\*Test Case 1:\*\*** Verify that users can set recurring tasks at daily intervals

**\*\*Test Case ID:\*\*** TC-1

**\*\*Test Case Title:\*\*** Verify that users can set daily recurring tasks

**\*\*Test Case Description:\*\*** This test case ensures users can establish recurring tasks to occur every day.

**\*\*Test Data:\*\*** Frequency = Daily

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

- Create a new task.
- Select the "Recurring task" option.
- Set the frequency to "Daily."
- Specify a start date and time.
- Check the generated instances of the recurring task.

**\*\*Expected Result:\*\*** Recurring tasks are automatically created for each day until the user cancels the recurrence.

**\*\*Test Case 2:\*\*** Verify that users can set recurring tasks at weekly intervals

**\*\*Test Case ID:\*\*** TC-2

**\*\*Test Case Title:\*\*** Verify that users can set weekly recurring tasks

**\*\*Test Case Description:\*\*** This test case verifies the functionality of setting recurring tasks to occur weekly.

**\*\*Test Data:\*\*** Frequency = Weekly

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

- Create a new task.
- Select the "Recurring task" option.
- Set the frequency to "Weekly."
- Specify a start date and time.
- Check the generated instances of the recurring task.

**\*\*Expected Result:\*\*** Recurring tasks are automatically created for each week until the user cancels the recurrence.

**\*\*Test Case 3:\*\*** Verify that the system generates instances of recurring tasks automatically

**\*\*Test Case ID:\*\*** TC-3

**\*\*Test Case Title:\*\*** Verify automatic generation of recurring task instances

**\*\*Test Case Description:\*\*** This test case ensures that the system automatically generates instances of recurring tasks on their scheduled dates.

**\*\*Test Data:\*\*** Frequency = Monthly

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

- Create a recurring task with a monthly frequency.
- Monitor the task list over time.

**\*\*Expected Result:\*\*** New instances of the recurring task appear on their designated date of each month.

**\*\*Test Case 4:\*\*** Verify that users can modify the recurrence pattern

**\*\*Test Case ID:\*\*** TC-4

**\*\*Test Case Title:\*\*** Verify modification of recurring task frequency

**\*\*Test Case Description:\*\*** This test case verifies the ability to modify the frequency of an existing recurring

task.

**\*\*Test Data:\*\*** Change frequency from Weekly to Monthly

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

- Create a recurring task with a weekly frequency.
- Access the recurring task and change the frequency to "Monthly."

**\*\*Expected Result:\*\*** The recurring task's frequency is updated to monthly.

**\*\*Test Case 5:\*\*** Verify that users can cancel recurring tasks

**\*\*Test Case ID:\*\*** TC-5

**\*\*Test Case Title:\*\*** Verify cancellation of recurring tasks

**\*\*Test Case Description:\*\*** This test case ensures that users can cancel recurring tasks at any time.

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

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

- Create a recurring task.
- Access the settings of the recurring task.
- Click the "Cancel Recurrence" button.

**\*\*Expected Result:\*\*** The recurring task is deleted and future instances are no longer generated.

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**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 Tags and Labels Feature

**\*\*Test Case 1:\*\*** Verify that users can add tags and labels to tasks.

**\* \*\*Test Description:\*\*** Verify that users can successfully input new tag and label names and assign them to tasks.

**\* \*\*Preconditions:\*\*** User logged in, project with tasks available.

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

1. Create a new task.
2. Click on "Add Tag" or "Add Label" button.
3. Enter a new tag or label name.



4. Assign the tag or label to the task.

\* \*\*Expected Result:\*\* Tag or label is added to the task and displayed in the list.

\*\*Test Case 2:\*\* Verify that tags can be customized and edited.

\* \*\*Test Description:\*\* Verify that users can modify existing tag and label names to their preferences.

\* \*\*Preconditions:\*\* Existing tag or label exists for the task.

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

1. Select the task with the existing tag/label.
2. Click on the "Edit Tag/Label" option.
3. Modify the existing tag/label name.
4. Click on "Save Changes".

\* \*\*Expected Result:\*\* The tag/label name is updated in the task list.

\*\*Test Case 3:\*\* Verify that tasks can be filtered and sorted based on tags and labels.

\* \*\*Test Description:\*\* Verify that users can filter and sort tasks based on assigned tags and labels.

\* \*\*Preconditions:\*\* Tasks assigned with different tags and labels exist.

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

1. Click on the "Filter by Tags/Labels" option.
2. Select desired tags or labels from the list.
3. Verify that only tasks with the selected tags or labels are displayed.

\* \*\*Expected Result:\*\* Tasks are filtered and sorted accordingly.

**\*\*Test Case 4:\*\*** Verify that the system displays tags and labels prominently in the task list.

**\* \*\*Test Description:\*\*** Verify that tags and labels are clearly visible next to tasks in the list.

**\* \*\*Preconditions:\*\*** Tags and labels are assigned to tasks.

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

1. Navigate to the task list.
2. Verify that tags and labels are displayed next to each task.

**\* \*\*Expected Result:\*\*** Tags and labels are visually distinct and easily identifiable.

**\*\*Test Case 5:\*\*** Verify that users can remove tags and labels if needed.

**\* \*\*Test Description:\*\*** Verify that users can remove tags and labels from tasks without issues.

**\* \*\*Preconditions:\*\*** Tasks with assigned tags or labels exist.

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

1. Select the task with the tag/label you want to remove.
2. Click on the "Remove Tag/Label" option.
3. Confirm the removal.

**\* \*\*Expected Result:\*\*** The tag/label is removed from the task and is no longer displayed.

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**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:**

## Test Cases for Task Status Tracking Feature

**\*\*Test Case ID:\*\*** TC-123

**\*\*Test Case Title:\*\*** Verify that users can update the status of tasks.

**\*\*Test Case Description:\*\*** This test case verifies that users can successfully change the status of tasks from "To Do" to "In Progress", "In Progress" to "Completed", and vice versa.

**\*\*Test Data:\*\*** "Test Task", "New Task Status"

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

- Create a new task.
- Select the desired task.
- Click on the "Update Status" button.

- Select the desired new status.
- Verify that the task status is updated in the list.

**\*\*Test Case ID:\*\* TC-456**

**\*\*Test Case Title:\*\* Verify that the system displays task status prominently in the task list.**

**\*\*Test Case Description:\*\* This test case verifies that the system highlights the status of tasks clearly in the task list, using different colors or symbols.**

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

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

- Create a few tasks with different statuses.
- Access the task list.
- Verify that tasks with different statuses are visually differentiated.

**\*\*Test Case ID:\*\* TC-789**

**\*\*Test Case Title:\*\* Verify that users can view the progress percentage of tasks.**

**\*\*Test Case Description:\*\* This test case verifies that the system displays the progress percentage of tasks in the task list.**

**\*\*Test Data:\*\* "Test Task"**

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

- Create a task.
- Track progress of the task.
- Verify that the progress percentage is correctly displayed in the task list.

**\*\*Test Case ID:\*\* TC-012**

**\*\*Test Case Title:\*\*** Verify that the system provides notifications for status changes.

**\*\*Test Case Description:\*\*** This test case verifies that the system sends notifications to users when the status of their tasks changes.

**\*\*Test Data:\*\*** "Test Task", "New Status"

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

- Create a task.
- Change the status of the task.
- Verify that a notification is sent to the user.

**\*\*Test Case ID:\*\*** TC-345

**\*\*Test Case Title:\*\*** Verify that task status can be filtered and sorted.

**\*\*Test Case Description:\*\*** This test case verifies that users can filter the displayed tasks based on their status and sort them in ascending or descending order of status.

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

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

- Create tasks with different statuses.
- Filter tasks by status.
- Sort tasks by status.
- Verify that the filtered and sorted tasks are displayed correctly.

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**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:**

## Task Management Tool - Test Cases for Task Filtering and Sorting

**\*\*Test Case 1:\*\*** Verify that tasks can be filtered by due date.

**\*\*Test Case ID:\*\*** TC-1

**\*\*Test Case Title:\*\*** Filter tasks by due date

**\*\*Test Case Description:\*\*** This test case verifies that tasks can be filtered by their due date and only those with the specified due date are displayed.

**\*\*Test Data:\*\*** Due date of "2023-10-27"

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

1. Create tasks with different due dates.
2. Navigate to the task list and utilize the "Due Date" filter.
3. Verify that only tasks with the specified due date are displayed.

**\*\*Expected Result:\*\*** Only tasks with the selected due date are shown in the filtered list.

**\*\*Continue creating test cases for remaining acceptance criteria:\*\***

**\*\*Test Case 2:\*\*** Verify that tasks can be sorted by priority.

**\*\*Test Case 3:\*\*** Verify that the system provides multiple filter and sort options in the task list.

**\*\*Test Case 4:\*\*** Verify that users can save and apply custom filter and sort settings.

**\*\*Test Case 5:\*\*** Verify that filters and sorts do not affect the actual data, only the view.

**\*\*Additional Test Cases:\*\***

- Test negative scenarios: invalid filter criteria, filter applied to non-applicable fields.
- Test boundary cases: tasks with identical due dates, priorities, or project names.
- Verify that sorting is consistent and correctly handles large datasets.
- Test interaction between filter and sort options.
- Ensure that saved filter/sort settings are applied correctly.
- Validate accessibility and usability of the filtering and sorting interface.

**\*\*Remember to include the following for each test case:\*\***

- **\*\*Preconditions:\*\*** Any prerequisite steps needed to execute the test.
- **\*\*Severity:\*\*** Impact of the potential defect on functionality.
- **\*\*Priority:\*\*** Importance of identifying the defect.

- **Type of Testing:** Categories of testing performed.
- **Test Case Approach:** Methodology used for executing the test.

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## 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



**\*\*1. Verify that users can start and stop a timer for each task.\*\***

- **\*\*Test Case ID:\*\*** TC-1

- **\*\*Test Case Description:\*\*** This test case verifies that users can initiate and pause the timer functionality for individual tasks.

- **\*\*Test Data:\*\*** Task with a defined deadline.

- **\*\*Test Steps:\*\***

- Create a new task.

- Verify timer button appears.

- Click the timer button to start tracking time.

- Click the timer button again to stop tracking time.

- **\*\*Expected Result:\*\*** The timer status changes and the time spent is displayed on the task.

**\*\*2. Verify that the system records and displays the total time spent on tasks.\*\***

- **\*\*Test Case ID:\*\*** TC-2

- **\*\*Test Case Description:\*\*** This test case confirms the functionality of automatically recording and displaying the total time spent on each completed task.

- **\*\*Test Data:\*\*** Completion of a task with tracked time.

- **\*\*Test Steps:\*\***

- Create a task and start tracking time.

- Complete the task.

- Verify that the total time spent is displayed on the task detail page.

- **\*\*Expected Result:\*\*** The total time spent is accurate and consistent with the tracked time.

**\*\*3. Verify that users can manually enter or adjust time entries.\*\***

- **\*\*Test Case ID:\*\*** TC-3
- **\*\*Test Case Description:\*\*** This test case verifies the ability to manually enter or edit time entries for tasks.
- **\*\*Test Data:\*\*** Existing task with tracked time.
- **\*\*Test Steps:\*\***
  - Open a completed task.
  - Click on the "Edit Time" button.
  - Enter or adjust time spent.
  - Click "Save" to update the time entry.
- **\*\*Expected Result:\*\*** The updated time entry is reflected in the task details.

**\*\*4. Verify that time tracking data is stored and can be exported.\*\***

- **\*\*Test Case ID:\*\*** TC-4
- **\*\*Test Case Description:\*\*** This test case confirms the storage and export functionality of time tracking data.
- **\*\*Test Data:\*\*** Completed tasks with tracked time.
- **\*\*Test Steps:\*\***
  - Export time tracking data.
  - Verify that the exported file contains time data for completed tasks.
- **\*\*Expected Result:\*\*** Exported data accurately reflects the recorded time for each completed task.

**\*\*5. Verify that the system provides reports on time spent per task or project.\*\***

- **Test Case ID:** TC-5
  - **Test Case Description:** This test case verifies the generation and availability of reports based on time tracking data.
  - **Test Data:** Completed tasks with tracked time.
  - **Test Steps:**
    - Generate a time spent report.
    - Verify that the report includes tracked time data for completed tasks.
  - **Expected Result:** The report accurately summarizes the total time spent per task or project.
- 

## **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:

## \*\*Test Cases for Task Templates\*\*

\*\*Test Case 1: Create and save a task template\*\*

\* \*\*Test Case ID:\*\* TC-1

\* \*\*Test Case Title:\*\* Verify that users can create and save a task template.

\* \*\*Test Case Description:\*\* This test case verifies that users can create a task template with predefined task structure, description, assignees, and due date, and save it for future use.

\* \*\*Test Suite:\*\* Task Management Tool

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

\* \*\*Preconditions:\*\* User is logged in to the application.

\* \*\*Test Data:\*\* Template name, task structure, description, assignees, due date

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

1. Navigate to the "Task Templates" section.
2. Click on the "Create Template" button.
3. Enter template name and details.
4. Define the desired task structure.
5. Assign users and set due dates.
6. Click "Save Template".

\* \*\*Expected Result:\*\* The created template is saved and displayed in the "Available Templates" list.

**\*\*Test Case 2: Apply a template to a new task\*\***

\* \*\*Test Case ID:\*\* TC-2

\* \*\*Test Case Title:\*\* Verify that users can apply a template to a new task.

\* \*\*Test Case Description:\*\* This test case verifies that users can select a saved template and automatically populate a new task with the predefined structure, description, and due date.

\* \*\*Test Suite:\*\* Task Management Tool

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

\* \*\*Preconditions:\*\* User has created a template.

\* \*\*Test Data:\*\* Template name

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

1. Navigate to the "New Task" page.
2. Click on the "Use Template" button.
3. Select the desired template from the list.
4. Verify that the task is created with the pre-defined structure and details.

\* \*\*Expected Result:\*\* The task is created with the template's contents.

**\*\*Test Case 3: Edit existing templates\*\***

\* \*\*Test Case ID:\*\* TC-3

\* \*\*Test Case Title:\*\* Verify that users can edit existing templates.

\* \*\*Test Case Description:\*\* This test case verifies that users can modify previously created templates to update the structure, description, assignees, or due dates.

\* \*\*Test Suite:\*\* Task Management Tool

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

\* \*\*Preconditions:\*\* User has created a template.

\* \*\*Test Data:\*\* Template name, updated details

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

1. Navigate to the "Task Templates" section.
2. Select the desired template.
3. Click on the "Edit Template" button.
4. Update the template details.
5. Click "Save Changes".

\* \*\*Expected Result:\*\* The template is updated with the new details.

**\*\*Test Case 4: Delete a template\*\***

\* \*\*Test Case ID:\*\* TC-4

\* \*\*Test Case Title:\*\* Verify that users can delete previously created templates.

\* \*\*Test Case Description:\*\* This test case verifies that users can delete saved templates from the list.

\* \*\*Test Suite:\*\* Task Management Tool

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

\* \*\*Preconditions:\*\* User has created a template.

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

1. Navigate to the "Task Templates" section.
2. Select the desired template.
3. Click on the "Delete Template" button.
4. Confirm the deletion.

\* \*\*Expected Result:\*\* The template is deleted from the list.

**\*\*Test Case 5: List available templates\*\***

**\* \*\*Test Case ID:\*\* TC-5**

**\* \*\*Test Case Title:\*\*** Verify that the system displays a list of available templates.

**\* \*\*Test Case Description:\*\*** This test case verifies that the application displays a list of all available templates in the "Available Templates" section.

**\* \*\*Test Suite:\*\*** Task Management Tool

**\* \*\*Test Priority:\*\*** Low

**\* \*\*Preconditions:\*\*** User is logged in to the application.

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

- 1. Navigate to the "Task Templates" section.
- 2. Verify that the list displays saved templates.

**\* \*\*Expected Result:\*\*** The system displays a list of available templates.

-----

**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:**

#### **## Test Cases for Calendar Integration Feature**

**\*\*Test Case 1: Verify that tasks can be successfully synced with Google Calendar\*\***

**\*\*Test Case ID:\*\* TC-1**

**\*\*Test Case Title:\*\*** Verify that tasks can be successfully synced with Google Calendar

**\*\*Test Case Description:\*\*** This test case verifies that tasks can be seamlessly synchronized with the user's Google Calendar account, ensuring accurate synchronization of deadlines and commitments.

**\*\*Test Data:\*\*** Google Calendar account credentials.

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

- Create a new task.
- Assign a deadline and set reminders.
- Enable calendar integration.
- Select Google Calendar as the target calendar.
- Verify that the task appears in the user's Google Calendar.

**\*\*Expected Result:\*\*** The task is successfully synchronized with the user's Google Calendar.



**\*\*Test Case 2: Verify that tasks deadlines are displayed in the calendar view\*\***

**\*\*Test Case ID:\*\* TC-2**

**\*\*Test Case Title:\*\* Verify that tasks deadlines are displayed in the calendar view**

**\*\*Test Case Description:\*\*** This test case ensures that the system displays task deadlines clearly within the calendar view, assisting users in prioritizing and managing their workload.

**\*\*Test Step:\*\***

- Sync tasks with the user's calendar.
- Navigate to the calendar view.
- Verify that the deadlines of the synced tasks are accurately displayed.

**\*\*Expected Result:\*\*** Task deadlines are clearly displayed in the calendar view.

**\*\*Test Case 3: Verify that reminders can be set for tasks via the calendar\*\***

**\*\*Test Case ID:\*\* TC-3**

**\*\*Test Case Title:\*\* Verify that reminders can be set for tasks via the calendar**

**\*\*Test Case Description:\*\*** This test case assesses the functionality of setting reminders for tasks directly from the calendar.

**\*\*Test Step:\*\***

- Create a new task.
- Enable the "Set Reminder" option from the calendar.
- Specify the desired reminder time.
- Verify that a reminder is created for the task.

**\*\*Expected Result:\*\*** A reminder is successfully set for the specified time.

**\*\*Test Case 4: Verify that calendar events update automatically when tasks are changed\*\***

**\*\*Test Case ID:\*\* TC-4**

**\*\*Test Case Title:\*\* Verify that calendar events update automatically when tasks are changed**

**\*\*Test Case Description:\*\* This test case ensures that changes made to tasks such as deadlines or descriptions are automatically reflected in the synced calendar events.**

**\*\*Test Step:\*\***

- Modify a task's deadline.
- Verify that the corresponding calendar event is updated with the new deadline.

**\*\*Expected Result:\*\* The calendar event is updated in sync with the changes made to the task.**

**\*\*Test Case 5: Verify that users can manage calendar sync settings within the app\*\***

**\*\*Test Case ID:\*\* TC-5**

**\*\*Test Case Title:\*\* Verify that users can manage calendar sync settings within the app**

**\*\*Test Case Description:\*\* This test case verifies that users can control and personalize their calendar integration settings within the application.**

**\*\*Test Step:\*\***

- Access the calendar settings.
- Modify the selected calendar or accounts.
- Verify that changes are saved and reflected in the application.

**\*\*Expected Result:\*\* Users can manage their calendar sync settings effectively.**

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## **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:**

## Test Cases for Task Duplication Feature

**\*\*1. Verify that tasks can be successfully duplicated.\*\***

**\*\*Test Case ID:\*\* TC-1**

**\*\*Test Case Title:\*\* Verify that tasks can be successfully duplicated.**

**\*\*Test Case Description:\*\* This test case ensures that users can create a duplicate of an existing task,**

preserving all original details.

**\*\*Test Data:\*\*** Existing task with various properties (description, assignee, deadline, attachments).

**\*\*Test Steps:\*\*** 1. Create a new task. 2. Select the "Duplicate" option. 3. Verify that the new task is created with all original details.

**\*\*Expected Result:\*\*** The cloned task is created and displayed in the task list.

**\*\*2. Verify that duplicated tasks retain original details.\*\***

**\*\*Test Case ID:\*\*** TC-2

**\*\*Test Case Title:\*\*** Verify that duplicated tasks retain original details.

**\*\*Test Case Description:\*\*** This test case checks if the duplicated task maintains all original attributes, including description, assignee, deadline, and attachments.

**\*\*Test Data:\*\*** Same as TC-1.

**\*\*Test Steps:\*\*** 1. Create a task with custom details. 2. Duplicate the task. 3. Verify that all original details are intact in the new task.

**\*\*Expected Result:\*\*** All original details are preserved in the cloned task.

**\*\*3. Verify that users can modify duplicated tasks.\*\***

**\*\*Test Case ID:\*\*** TC-3

**\*\*Test Case Title:\*\*** Verify that users can modify duplicated tasks.

**\*\*Test Case Description:\*\*** This test case ensures that users can customize the duplicated task without affecting the original.

**\*\*Test Data:\*\*** Same as TC-1.

**\*\*Test Steps:\*\*** 1. Create a task. 2. Duplicate the task. 3. Modify the cloned task. 4. Verify that the changes

are reflected in the new task.

**\*\*Expected Result:\*\*** Modifications to the cloned task are independent of the original task.

**\*\*4. Verify that the system clearly indicates duplication.\*\***

**\*\*Test Case ID:\*\*** TC-4

**\*\*Test Case Title:\*\*** Verify that the system clearly indicates when a task has been duplicated.

**\*\*Test Case Description:\*\*** This test case checks if the system clearly communicates when a task has been duplicated to prevent confusion.

**\*\*Test Data:\*\*** Same as TC-1.

**\*\*Test Steps:\*\*** 1. Create a task. 2. Duplicate the task. 3. Verify that the system displays a confirmation message indicating successful duplication.

**\*\*Expected Result:\*\*** A clear indication appears when a task is duplicated.

**\*\*5. Verify that duplicated tasks are saved and displayed.\*\***

**\*\*Test Case ID:\*\*** TC-5

**\*\*Test Case Title:\*\*** Verify that duplicated tasks are saved and displayed in the task list.

**\*\*Test Case Description:\*\*** This test case ensures that cloned tasks are saved and readily available in the task list.

**\*\*Test Data:\*\*** Same as TC-1.

**\*\*Test Steps:\*\*** 1. Create a task. 2. Duplicate the task. 3. Verify that the new task is saved and displayed in the task list.

**\*\*Expected Result:\*\*** The cloned task is saved and displayed in the task list alongside other existing tasks.

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## **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:**

## Test Cases for Task Management Tool - Task History

\*\*1. Verify that users can view a detailed history of changes to tasks.\*\*

\* Test Data: Create a task with modifications, comments, and attachments.

\* Test Steps:

- Navigate to the task details page.
- Click on the "History" tab.
- Verify that the history timeline displays all changes made to the task.

\* Expected Result: The task history shows comprehensive details of modifications, comments, and timestamps.

**\*\*2. Verify that the history includes modifications, comments, and other relevant activity.\*\***

\* Test Data: Assign multiple users to a task and leave comments on different versions.

\* Test Steps:

- Create a task and assign it to multiple users.
- Edit the task and make changes.
- Add comments to the task at different stages.
- View the task history.

\* Expected Result: The history includes detailed logs of all modifications, comments, and user names.

**\*\*3. Verify that users can filter the history by type of change or date.\*\***

\* Test Data: Existing task with various modifications and comments.

\* Test Steps:

- Go to the task history.
- Select a specific type of change or date range.
- Verify that the filtered results only show relevant entries.

\* Expected Result: The filter functionality allows users to narrow down the history based on their needs.

**\*\*4. Verify that the system provides timestamps for all changes.\*\***

\* Test Data: Create a task and modify it multiple times.

\* Test Steps:

- Create a task.
- Make changes to the task and note the timestamp.
- View the task history.
- Verify that each change has a timestamp associated with it.

\* Expected Result: The timestamps provide transparency and accountability for actions taken on tasks.

**\*\*5. Verify that task history is accessible from the task details page.\*\***

\* Test Data: Existing task with a rich history.

\* Test Steps:

- Navigate to the task details page of an existing task.
- Verify that the "History" tab is present and accessible.
- Click on the "History" tab and confirm that the task history is displayed.

\* Expected Result: The task history is readily available from the designated tab for convenient review.

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## 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:**

## Test Cases for Task Notification Feature:

**\*\*1. Verify that users receive email notifications for task updates.\*\***

**\* \*\*Test Case ID:\*\* TC-1**

**\* \*\*Test Case Description:\*\* Tests the delivery of email notifications for updates on assigned tasks.**

\* \*\*Test Data:\*\* User account with email address, assigned task with update.

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

- Assign a task to the user.
- Update the task.
- Verify an email notification is received with the update details.

\* \*\*Expected Result:\*\* Receive an email notification with relevant task update information.

**\*\*2. Verify that users receive mobile push notifications for task mentions.\*\***

\* \*\*Test Case ID:\*\* TC-2

\* \*\*Test Case Description:\*\* Tests the delivery of mobile push notifications for mentions in tasks.

\* \*\*Test Data:\*\* User account with mobile device, task with mention.

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

- Assign a task to a group with other users.
- Mention the user in the task description.
- Verify a mobile push notification is received for the mention.

\* \*\*Expected Result:\*\* Receive a mobile push notification with the mention details on the assigned task.

**\*\*3. Verify that users can customize notification preferences.\*\***

\* \*\*Test Case ID:\*\* TC-3

\* \*\*Test Case Description:\*\* Tests the ability to configure notification preferences for task updates, comments, and mentions.

\* \*\*Test Data:\*\* User account, existing notification preferences.

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

- Access notification settings.
- Modify preferences for different notification types.

- Verify changes are reflected in notification delivery.

\* \*\*Expected Result:\*\* Ability to personalize notification preferences for individual needs.

\*\*4. Verify that notifications provide detailed information.\*\*

\* \*\*Test Case ID:\*\* TC-4

\* \*\*Test Case Description:\*\* Tests the completeness and clarity of information displayed in notifications.

\* \*\*Test Data:\*\* Recent task update with various details.

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

- Trigger a notification for a completed task.
- Review the notification details.
- Verify relevant information such as task title, assignee, deadline, and description.

\* \*\*Expected Result:\*\* Receive notifications with comprehensive and informative details.

\*\*5. Verify that the system logs notification history.\*\*

\* \*\*Test Case ID:\*\* TC-5

\* \*\*Test Case Description:\*\* Tests the logging and retrieval of notification history.

\* \*\*Test Data:\*\* User account, several completed tasks with notifications.

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

- Perform tasks that trigger notifications.
- Access the notification history page.
- Verify that previous notifications are recorded and accessible.

\* \*\*Expected Result:\*\* Successful logging and retrieval of historical notifications.

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## **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:**

## Task Archiving Test Cases

**\*\*Test Case Creation Template:\*\***

**\*\*Test Case ID:\*\*** TC-123

**\*\*Test Case Title:\*\*** Verify that completed tasks can be archived.

**\*\*Test Case Description:\*\*** This test case verifies that users can archive completed tasks and they are moved

to a separate section.

**\*\*Test Suite:\*\*** Functional Testing

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

**\*\*Preconditions:\*\***

- A completed task exists in the list.
- User is logged into the system.

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

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

1. Navigate to the task list.
2. Select the checkbox next to the completed task.
3. Click on the "Archive" button.
4. Verify that the task is moved to the "Archived Tasks" section.

**\*\*Postconditions:\*\***

- Archived task is no longer visible in the main task list.
- Archived task remains accessible for future reference.

**\*\*Expected Result:\*\*** The completed task is archived successfully.

**\*\*Severity:\*\*** Minor

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

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

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

**\*\*Additional Test Cases:\*\***

- \*\*TC-124:\*\*** Verify that archived tasks are accessible for search.
- \*\*TC-125:\*\*** Verify that users can restore archived tasks to the active list.
- \*\*TC-126:\*\*** Verify that archived tasks retain all original details and history.
- \*\*TC-127:\*\*** Verify that only completed or inactive tasks can be archived.
- \*\*TC-128:\*\*** Verify that archiving tasks works across different browsers and devices.

**\*\*Edge Case:\*\***

- Test with a partially completed task.
- Test with a task that has dependencies on other tasks.

**\*\*Negative Case:\*\***

- Test with an invalid search term for archived tasks.
- Test with an attempt to archive a task that is already archived.

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**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

**\*\*Test Case 1:\*\*** Verify that users can invite external collaborators as guests with limited access.

- **\*\*Test Case ID:\*\*** QA-123

- **\*\*Test Case Title:\*\*** Invite external collaborators as guests

- **\*\*Test Case Description:\*\*** Test the functionality of inviting external collaborators to the platform as guests and verifying access limitations.

- **\*\*Test Steps:\*\***

- Login as a user.

- Navigate to the "Collaborators" section.

- Click "Invite Guest".
- Enter email address and name of the guest.
- Select desired access level.
- Click "Send Invite".
- **Expected Result:** Guest receives an invitation email and can access designated project/task.

**Test Case 2:** Verify that guests can view and collaborate on specific tasks/projects.

- **Test Case ID:** QA-124
- **Test Case Title:** Guest access for task collaboration
- **Test Case Description:** Ensure guests can access designated tasks and collaborate on them.
- **Test Steps:**
  - Collaborator receives and accepts invite.
  - Navigate to assigned tasks/projects.
  - Edit, comment, or attach files to tasks.
- **Expected Result:** Guest can contribute to tasks/projects without accessing sensitive information.

**Test Case 3:** Verify that the system provides clear distinctions between guest and full access roles.

- **Test Case ID:** QA-125
- **Test Case Title:** Distinctions between access levels
- **Test Case Description:** Test the visual representation of guest and full access levels.
- **Test Steps:**
  - User and guest access different sections of the platform.
  - Verify different permissions based on access levels.



- **Expected Result:** Clear visual differentiation between access levels is displayed.

**Test Case 4:** Verify that users can manage and revoke guest access at any time.

- **Test Case ID:** QA-126
- **Test Case Title:** Manage and revoke guest access
- **Test Case Description:** Test the functionality of controlling guest access and revoking permissions.
- **Test Steps:**
  - User invites a guest.
  - Guest receives and accepts invite.
  - User navigates to "Collaborators" section.
  - Manage/revoke access for the guest.
- **Expected Result:** Guest access is either granted or revoked successfully.

**Test Case 5:** Verify that guests cannot access sensitive or restricted areas of the platform.

- **Test Case ID:** QA-127
- **Test Case Title:** Access restrictions for guests
- **Test Case Description:** Test that guests are unable to access sensitive platform areas.
- **Test Steps:**
  - Guest attempts to access restricted pages or features.
- **Expected Result:** Access is denied and an appropriate message is displayed.

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**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:**

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

**\*\*Test Case ID:\*\* TC-1**

**\*\*Test Case Title:\*\*** Verify that the system imports tasks from CSV files.

**\*\*Test Case Description:\*\*** Test the functionality of importing tasks from CSV files in various formats and

ensure that imported tasks are correctly displayed in the application.

**\*\*Preconditions:\*\*** User account exists, CSV file with tasks created.

**\*\*Test Data:\*\*** CSV file with different types of tasks.

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

- Upload a CSV file to the application.
- Verify that the imported tasks are listed in the task list.
- Check for accuracy of data fields like titles, descriptions, deadlines, and priorities.

**\*\*Expected Result:\*\*** Imported tasks are displayed correctly with all relevant information.

**\*\*Test Case 2:\*\***

**\*\*Test Case ID:\*\*** TC-2

**\*\*Test Case Title:\*\*** Verify that the system provides clear mapping of fields during import and export.

**\*\*Test Case Description:\*\*** Test the accuracy of data mapping between the application and other supported task management tools during import/export process.

**\*\*Preconditions:\*\*** Existing tasks in the application.

**\*\*Test Data:\*\*** Integration with target task management tool.

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

- Import tasks from the application to the target tool.
- Verify that the fields are mapped correctly.
- Export tasks from the application to the target tool.
- Verify that the field mapping is consistent.

**\*\*Expected Result:\*\*** Data fields are mapped accurately across tools.

**\*\*Test Case 3:\*\***

**\*\*Test Case ID:\*\* TC-3**

**\*\*Test Case Title:\*\*** Verify that the system allows preview of imported data before finalizing the process.

**\*\*Test Case Description:\*\*** Test the functionality of reviewing imported data before finalizing the import process.

**\*\*Preconditions:\*\*** CSV file with tasks.

**\*\*Test Data:\*\*** CSV file with different types of tasks.

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

- Upload the CSV file for preview.
- Verify that the preview shows the imported tasks.
- Make necessary changes to the tasks.
- Finalize the import process.

**\*\*Expected Result:\*\*** Imported data is displayed accurately in the application.

**\*\*Test Case 4:\*\***

**\*\*Test Case ID:\*\* TC-4**

**\*\*Test Case Title:\*\*** Verify that the system logs import/export activities for future reference.

**\*\*Test Case Description:\*\*** Test the logging of import/export activities in the application for traceability.

**\*\*Preconditions:\*\*** User account with logging enabled.

**\*\*Test Data:\*\*** Multiple import/export actions.

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

- Import tasks from a CSV file.
- Export tasks to a different format.
- Review the logged import/export records.

**\*\*Expected Result:\*\*** Import/export activities are logged with timestamps and relevant data.

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

**\*\*Test Case ID:\*\*** TC-5

**\*\*Test Case Title:\*\*** Verify that the system handles invalid import/export data gracefully.

**\*\*Test Case Description:\*\*** Test the application's response to invalid or unsupported data during import/export.

**\*\*Preconditions:\*\*** Existing tasks in the application.

**\*\*Test Data:\*\*** Malformed CSV file, unsupported file format.

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

- Attempt to import an invalid CSV file.
- Verify that an appropriate error message is displayed.
- Attempt to export tasks in an unsupported format.

**\*\*Expected Result:\*\*** The application handles invalid data gracefully and provides informative error messages.

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**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:

#### ## Task Prioritization Test Cases

**\*\*Test Case 1:\*\*** Verify that users can set and adjust task priorities.

**\* \*\*Test Case ID:\*\*** QA-1

**\* \*\*Test Case Title:\*\*** Verify that users can set and adjust task priorities.

**\* \*\*Test Case Description:\*\*** This test case verifies that users can change the priority of existing tasks and prioritize new tasks effectively.

**\* \*\*Test Data:\*\*** Create a task with different priority levels.

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

- Create a task.
- Set the priority to high.
- Change the priority to low.
- Verify the priority is reflected in the task list.

\* \*\*Expected Result:\*\* The priority of the task changes as expected.

\*\*Test Case 2:\*\* Verify that tasks can be sorted and filtered based on priority levels.

\* \*\*Test Case ID:\*\* QA-2

\* \*\*Test Case Title:\*\* Verify that tasks can be sorted and filtered based on priority levels.

\* \*\*Test Case Description:\*\* This test case verifies that tasks can be easily sorted and filtered based on their assigned priority levels.

\* \*\*Test Data:\*\* Create tasks with different priority levels.

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

- Sort tasks by priority.
- Filter tasks with a specific priority level.
- Verify that only tasks with the specified priority level are displayed.

\* \*\*Expected Result:\*\* Tasks are sorted and filtered based on their assigned priority levels.

\*\*Test Case 3:\*\* Verify that the system provides visual indicators of task priority.

\* \*\*Test Case ID:\*\* QA-3

\* \*\*Test Case Title:\*\* Verify that the system provides visual indicators of task priority.

\* \*\*Test Case Description:\*\* This test case verifies that the system displays visual indicators alongside tasks, indicating their priority levels.

\* \*\*Test Data:\*\* Create tasks with different priority levels.

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

- Create tasks with different priority levels.
- Verify that different icons or color coding are used to indicate the priority levels.

\* \*\*Expected Result:\*\* Different priority levels are visually represented with appropriate indicators.

\*\*Test Case 4:\*\* Verify that users receive notifications for high-priority tasks.

\* \*\*Test Case ID:\*\* QA-4

\* \*\*Test Case Title:\*\* Verify that users receive notifications for high-priority tasks.

\* \*\*Test Case Description:\*\* This test case verifies that users receive timely notifications when assigned tasks with high priority levels approach their deadline.

\* \*\*Test Data:\*\* Create a high-priority task with an approaching deadline.

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

- Create a high-priority task with a close deadline.
- Set notification preferences.
- Verify that a notification is received before the deadline.

\* \*\*Expected Result:\*\* Users receive timely notifications for high-priority tasks.

\*\*Test Case 5:\*\* Verify that priority changes are logged and tracked.

\* \*\*Test Case ID:\*\* QA-5

\* \*\*Test Case Title:\*\* Verify that priority changes are logged and tracked.

\* \*\*Test Case Description:\*\* This test case verifies that all changes made to task priority are logged and readily accessible for tracking progress.

\* \*\*Test Data:\*\* Create a task and change its priority multiple times.

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

- Create a task.
- Change the priority of the task several times.



- Verify that all priority changes are logged in the system.

\* \*\*Expected Result:\*\* All priority changes are logged and displayed in the system history.

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## **Data - 43**

### **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 Collaboration Test Cases

**\*\*Test Case 1:\*\*** Verify that users can assign tasks to team members.

**\*\*Test Case ID:\*\*** TC-1

**\*\*Test Case Title:\*\*** Assign task to a team member

**\*\*Test Case Description:\*\*** This test case verifies that users can assign tasks to other team members and receive confirmation of successful assignment.

**\*\*Test Suite:\*\*** Task Collaboration

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

**\*\*Preconditions:\*\*** User accounts for both assigning and assigned team members exist

**\*\*Test Data:\*\*** Assignee: John Doe, Task name: "Create project plan", Due date: 2023-10-27

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

- Log in to the tool.
- Create or select an existing task.
- Click on the "Assign" icon.
- Select the desired team member from the list.
- Verify that the assigned team member receives notification.

**\*\*Expected Result:\*\*** The assigned team member receives a notification and the assigned task appears in their task list.

**\*\*Severity:\*\*** High

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

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

**\*\*Test Case 2:\*\*** Verify that users can share updates and communicate through comments or messages.

**\*\*Test Case ID:\*\* TC-2**

**\*\*Test Case Title:\*\* Add comments and messages to tasks**

**\*\*Test Case Description:\*\* This test case verifies that users can add comments and messages to tasks and that these comments and messages are visible to assigned team members.**

**\*\*Test Suite:\*\* Task Collaboration**

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

**\*\*Preconditions:\*\* User has created or been assigned a task.**

**\*\*Test Data:\*\* Comment: "Needs clarification on requirements", Message: "Attached updated document"**

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

- Access the assigned task.
- Click on the "Comment" icon.
- Enter comment or message in the pop-up window.
- Click "Add comment/message".
- Verify that the comment or message is visible on the task page.

**\*\*Expected Result:\*\* The comment or message is displayed on the task page and is visible to assigned team members.**

**\*\*Severity:\*\* Medium**

**\*\*Priority:\*\* Medium**

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

**\*\*Additional Test Cases:\*\***

\* Verify that users receive notifications for task updates and comments, covering multiple notification settings and devices.

\* Verify that the system provides a clear and concise view of the task collaboration history, including all assigned tasks, comments, and updates.

- \* Verify that assigning tasks with due dates automatically sends reminders to assigned team members.
- \* Verify that the system handles assigning tasks to team members who are not yet registered in the system.
- \* Verify that the system allows for cancellation of assigned tasks and deletion of comments and messages.

**\*\*Note:\*\*** This is just a starting point. Further test cases can be created to cover additional functionality and edge cases not mentioned above.

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## **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:

### ## Test Cases for Task Tracking Feature

**\*\*Test Case 1: Verify that users can view task statuses\*\***

**\*\*Test Case ID:\*\*** TT-01

**\*\*Test Case Title:\*\*** Verify that users can view task statuses

**\*\*Test Case Description:\*\*** This test case verifies that users can see the status of their assigned tasks.

**\*\*Test Suite:\*\*** Task Tracking

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

**\*\*Preconditions:\*\***

- User has logged into the application
- A task has been created with a defined status

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

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

1. Navigate to the task list or dashboard
2. Select a completed/pending/assigned task
3. Verify that the appropriate status is displayed

**\*\*Expected Result:\*\*** The task status is accurately reflected.

**\*\*Severity:\*\*** Minor

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

**\*\*Test Case 2: Verify that users can track task progress and deadlines\*\***

**\*\*Test Case ID:\*\*** TT-02

**\*\*Test Case Title:\*\*** Verify that users can track task progress and deadlines

**\*\*Test Case Description:\*\*** This test case verifies that users can track the progress of their assigned tasks, including deadline tracking.

**\*\*Test Suite:\*\*** Task Tracking

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

**\*\*Preconditions:\*\***

- User has created a task
- Deadline has been set for the task

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

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

1. Assign the task to themselves
2. Track their progress as they complete steps
3. Verify that the deadline indicator highlights approaching deadlines

**\*\*Expected Result:\*\*** Task progress is visually represented, and deadline approaching is visually signaled.

**\*\*Severity:\*\*** Medium

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

**\*\*Test Case 3: Verify that task status updates are real-time\*\***

**\*\*Test Case ID:\*\*** TT-03

**\*\*Test Case Title:\*\*** Verify that task status updates are real-time

**\*\*Test Case Description:\*\*** This test case verifies that changes made to a task's status are reflected in real-time for all users.

**\*\*Test Suite:\*\*** Task Tracking

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

**\*\*Preconditions:\*\***

- User has collaborated on a task with others
- Status of the task is changed by one user

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

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

1. Collaboratively work on a task
2. Change the status of the task to completed
3. Verify that all collaborators see the updated status immediately

**\*\*Expected Result:\*\*** Status changes are synchronized and reflected in real-time across all devices.

**\*\*Severity:\*\*** Minor

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

**\*\*Additional Test Cases:\*\***

- **\*\*TT-04:\*\*** Verify that the system provides visual indicators for task progress with different colors or icons.
- **\*\*TT-05:\*\*** Verify that the "Tasks" page allows for filtering and searching tasks based on status, deadline, or assignee.

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**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 Notifications Feature:

**\*\*1. Verify that users receive notifications for new tasks:\*\***

- **\*\*Test Case ID:\*\*** TN-1

- **\*\*Test Case Description:\*\*** This test case verifies that users receive notifications when new tasks are assigned to them.

- **\*\*Test Data:\*\*** User account, project with new task created.

- **\*\*Test Steps:\*\***

- Create a new task.

- Verify that a notification is received on the user's chosen notification platform.

- **\*\*Expected Result:\*\*** User receives a notification for the new task.

**\*\*2. Verify that users receive notifications for task updates and comments:\*\***

- **\*\*Test Case ID:\*\*** TN-2
- **\*\*Test Case Description:\*\*** This test case verifies that users receive notifications when tasks are updated or comments are added.
- **\*\*Test Data:\*\*** Existing task with comments and updates.
- **\*\*Test Steps:\*\***
  - Update an existing task.
  - Add a comment to an existing task.
  - Verify that notifications are received on the user's chosen notification platform.
- **\*\*Expected Result:\*\*** User receives notifications for both the update and the comment.

**\*\*3. Verify that users receive reminders for upcoming deadlines:\*\***

- **\*\*Test Case ID:\*\*** TN-3
- **\*\*Test Case Description:\*\*** This test case verifies that users receive reminders for upcoming deadlines.
- **\*\*Test Data:\*\*** Task with a deadline approaching.
- **\*\*Test Steps:\*\***
  - Create a task with a future deadline.
  - Set reminder settings for the task.
  - Monitor the user's notification platform for the reminder.
- **\*\*Expected Result:\*\*** User receives a reminder notification before the deadline.

**\*\*4. Verify that notification settings can be customized by users:\*\***

- **\*\*Test Case ID:\*\*** TN-4

- **Test Case Description:** This test case verifies that users can customize their notification preferences.
- **Test Data:** User account, notification settings page.
- **Test Steps:**
  - Access the notification settings.
  - Change notification preferences for different event types.
  - Verify that the changes are saved and reflected in notifications.
- **Expected Result:** User can configure their notification preferences as desired.

**5. Verify that notifications are received across different devices and platforms:**

- **Test Case ID:** TN-5
- **Test Case Description:** This test case verifies that notifications are received across different devices and platforms.
- **Test Data:** User accounts, various devices/platforms.
- **Test Steps:**
  - Send notifications from different devices/platforms.
  - Verify that notifications are received on all targeted devices/platforms.
- **Expected Result:** Notifications are received consistently across different devices and platforms.

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**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:**

## Test Cases for Task Categorization Feature

**\*\*Test Case ID:\*\* TC-1**

**\*\*Test Case Title:\*\* Verify that users can create new categories.**

**\*\*Test Case Description:\*\* This test case verifies that users can successfully create new categories and assign them meaningful names.**

**\*\*Test Suite:\*\* Functional Testing**

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

**\*\*Preconditions:\*\* User logged in, Project or category creation feature available**

**\*\*Test Data:\*\* "New Category", "Project X"**

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

- Navigate to the category creation page.

- Input a category name and project (optional).

- Click the "Create Category" button.

**\*\*Expected Result:\*\*** Category is created and displayed in the category list.

**\*\*Test Case ID:\*\*** TC-2

**\*\*Test Case Title:\*\*** Verify that users can assign tasks to different categories.

**\*\*Test Case Description:\*\*** This test case verifies that tasks can be assigned to different categories and that the category information is reflected accurately.

**\*\*Test Suite:\*\*** Functional Testing

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

**\*\*Preconditions:\*\*** User has created at least one category.

**\*\*Test Data:\*\*** Existing category from previous test case.

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

- Create a new task.

- Select the desired category from the "Category" dropdown menu.

- Click the "Assign Task" button.

**\*\*Expected Result:\*\*** Task is assigned to the selected category and the category is reflected in the task view.

**\*\*Test Case ID:\*\*** TC-3

**\*\*Test Case Title:\*\*** Verify that users can view tasks grouped by categories.

**\*\*Test Case Description:\*\*** This test case verifies that users can view tasks categorized by different groups.

**\*\*Test Suite:\*\*** Functional Testing

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

**\*\*Preconditions:\*\*** User has created tasks assigned to various categories.

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

- Navigate to the "Categories" page.

- Select a specific category from the list.

**\*\*Expected Result:\*\*** Only tasks assigned to that category are displayed.

**\*\*Test Case ID:\*\*** TC-4

**\*\*Test Case Title:\*\*** Verify that moving tasks between categories works correctly.

**\*\*Test Case Description:\*\*** This test case verifies that users can move tasks between different categories without errors.

**\*\*Test Suite:\*\*** Functional Testing

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

**\*\*Preconditions:\*\*** Existing tasks assigned to different categories.

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

- Select a task from a category.

- Drag and drop the task to a different category.

**\*\*Expected Result:\*\*** Task is moved to the new category and the category change is reflected in the task view.

**\*\*Test Case ID:\*\*** TC-5

**\*\*Test Case Title:\*\*** Verify that category or project information is accurately reflected in task views.

**\*\*Test Case Description:\*\*** This test case verifies that the category or project information is accurately reflected in the task view.

**\*\*Test Suite:\*\*** Functional Testing

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

**\*\*Preconditions:\*\*** Existing tasks assigned to different categories/projects.

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

- Navigate to the "Tasks" page.

- Select a category or project.

**\*\*Expected Result:\*\*** Task list displays tasks associated with the selected category or project and shows the associated category/project information.

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## **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:**

## Task Management Tool - Test Cases for Task Search Feature

**\*\*Test Case 1: Valid Search by Name\*\***

**\*\*Test Case ID:\*\* TM-TC-01**

**\*\*Test Case Title:\*\*** Verify that users can search for tasks by providing a valid task name

**\*\*Test Case Description:\*\*** This test case verifies that users can successfully search for tasks using a valid task name.

**\*\*Test Suite:\*\*** Feature - Task Search

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

**\*\*Preconditions:\*\*** User is logged into the tool, a task with the specified name exists in the system.

**\*\*Test Data:\*\*** "Create a new task: 'Test Task'"

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

- Open the 'Tasks' page
- Enter the search term "Test Task" in the search bar
- Verify that the 'Test Task' appears in the search results

**\*\*Expected Result:\*\*** The task with the specified name is displayed in the search results.

**\*\*Severity:\*\*** Minor

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

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

**\*\*Test Case 2: Invalid Search by Name\*\***

**\*\*Test Case ID:\*\*** TM-TC-02

**\*\*Test Case Title:\*\*** Verify that the system handles invalid search terms correctly

**\*\*Test Case Description:\*\*** This test case verifies that the system gracefully handles invalid search terms (e.g., empty string, special characters).



**\*\*Test Suite:\*\* Feature - Task Search**

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

**\*\*Preconditions:\*\* User is logged into the tool.**

**\*\*Test Data:\*\* "", "@#\$%^&\*"**

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

- Open the 'Tasks' page
- Enter an invalid search term in the search bar
- Verify that the search results display an appropriate error message

**\*\*Expected Result:\*\* An informative error message is displayed, indicating the invalid search term.**

**\*\*Severity:\*\* Minor**

**\*\*Priority:\*\* Medium**

**\*\*Test Case 3: Search by Description\*\***

**\*\*Test Case ID:\*\* TM-TC-03**

**\*\*Test Case Title:\*\* Verify that users can search for tasks by providing a valid task description**

**\*\*Test Case Description:\*\* This test case verifies that users can effectively search for tasks using a partial or exact match of the task description.**

**\*\*Test Suite:\*\* Feature - Task Search**

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

**\*\*Preconditions:\*\* User is logged into the tool, a task with the specified description exists in the system.**

**\*\*Test Data:\*\* "Create a new task: This is a test task with a long description."**

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

- Open the 'Tasks' page
- Enter a relevant portion of the task description in the search bar
- Verify that the task with the matching description appears in the search results

**\*\*Expected Result:\*\*** The task with the specified description is displayed in the search results.

**\*\*Additional Test Cases:\*\***

- \* Test cases to search for tasks by category, priority, and due date.
- \* Test case to search for tasks using multiple criteria simultaneously.
- \* Test case to verify search performance with large datasets.
- \* Negative test cases to ensure that the search function handles empty values, special characters, and non-existent search terms gracefully.

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**Data - 48**

**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 Collaboration Feature

**\*\*Test Case 1 - Positive: Add Comment to Task\*\***

**\*\*Test Case ID:\*\* TC-1**

**\*\*Test Case Title:\*\*** Verify that users can add comments to tasks successfully.

**\*\*Test Case Description:\*\*** This test case verifies that users can add comments to tasks and that the comments are stored and displayed correctly.

**\*\*Test Data:\*\*** Task ID, Comment text

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

- Create a new task.
- Click the "Add Comment" button.
- Enter a comment in the text field.
- Click the "Add Comment" button.

**\*\*Expected Result:\*\*** The comment is displayed under the task.

**\*\*Test Case 2 - Negative: Invalid Comment Input\*\***

**\*\*Test Case ID:\*\* TC-2**

**\*\*Test Case Title:\*\*** Verify that invalid comment input is handled gracefully.

**\*\*Test Case Description:\*\*** This test case verifies that the system handles invalid comment input, such as

empty strings or special characters.

**\*\*Test Data:\*\*** Empty string, Special characters

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

- Create a new task.
- Click the "Add Comment" button.
- Input an invalid comment (empty string or special characters).

**\*\*Expected Result:\*\*** The system displays an error message and prevents the comment from being added.

**\*\*Test Case 3 - Positive: Attach File to Task\*\***

**\*\*Test Case ID:\*\*** TC-3

**\*\*Test Case Title:\*\*** Verify that users can attach files to tasks successfully.

**\*\*Test Case Description:\*\*** This test case verifies that users can attach files to tasks and that the files are stored and displayed correctly.

**\*\*Test Data:\*\*** Task ID, File to be attached

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

- Create a new task.
- Click the "Attach File" button.
- Select a file from the computer.
- Click the "Attach" button.

**\*\*Expected Result:\*\*** The file is attached to the task and displayed in the "Attachments" section.

**\*\*Test Case 4 - Negative: Invalid File Type\*\***

**\*\*Test Case ID:\*\*** TC-4

**\*\*Test Case Title:\*\*** Verify that the system handles invalid file types.

**\*\*Test Case Description:\*\*** This test case verifies that the system rejects invalid file types that are not

supported.

**\*\*Test Data:\*\*** Task ID, Invalid file type

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

- Create a new task.
- Click the "Attach File" button.
- Select an invalid file type (e.g., executable file).

**\*\*Expected Result:\*\*** The system displays an error message and prevents the file from being attached.

**\*\*Test Case 5 - Positive: Share Task with Other Users\*\***

**\*\*Test Case ID:\*\*** TC-5

**\*\*Test Case Title:\*\*** Verify that users can share tasks with other users successfully.

**\*\*Test Case Description:\*\*** This test case verifies that users can share tasks with other users and that the recipients receive notification.

**\*\*Test Data:\*\*** Task ID, User email addresses

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

- Create a new task.
- Click the "Share Task" button.
- Enter email addresses of recipients.
- Click the "Share" button.

**\*\*Expected Result:\*\*** The recipients receive notification and can access the shared task.

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**Data - 49**

**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 -**

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 Course Creation Tools

**\*\*Test Case 1:\*\*** Verify that instructors can create courses using videos

**\*\*Test Case ID:\*\*** TC-Course-Video

**\*\*Test Case Title:\*\*** Test course creation with video upload functionality

**\*\*Test Case Description:\*\*** This test case verifies that instructors can upload video files to their courses using the provided tools.

**\*\*Test Data:\*\*** 10-minute video file in MP4 format

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

- Login as an instructor.
- Navigate to the course creation page.
- Select the "Video" tab.
- Drag and drop the video file into the designated area.
- Verify that the video is uploaded successfully and displayed in the course outline.

**\*\*Test Case 2:\*\*** Verify that course creation tools are user-friendly and require minimal technical skills

**\*\*Test Case ID:\*\*** TC-Course-UserFriendly

**\*\*Test Case Title:\*\*** Test course creation interface for ease of use

**\*\*Test Case Description:\*\*** This test case assesses the user-friendliness of the course creation tools and confirms that minimal technical knowledge is required.

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

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

- Examine the interface layout and navigation elements.
- Verify that the controls are clearly labeled and intuitive.
- Attempt to create a course without prior technical knowledge.
- Assess the clarity of instructions and guidance for each step.

**\*\*Test Case 3:\*\*** Verify that courses can be previewed before publishing

**\*\*Test Case ID:\*\*** TC-Course-Preview

**\*\*Test Case Title:\*\*** Test course preview functionality

**\*\*Test Case Description:\*\*** This test case confirms that instructors can preview their courses before publishing them for students.

**\*\*Test Data:\*\*** Draft course with various multimedia elements

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

- Create a course using the available tools.
- Navigate to the "Preview" tab.
- Review the course structure, content, and multimedia elements.
- Ensure that the preview function displays the course accurately.

**\*\*Test Case 4:\*\*** Verify that instructors can save courses as drafts

**\*\*Test Case ID:\*\*** TC-Course-Draft

**\*\*Test Case Title:\*\*** Test course draft save functionality

**\*\*Test Case Description:\*\*** This test case verifies the functionality of saving courses as drafts before final publication.

**\*\*Test Data:\*\*** Partially completed course

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

- Create a course using the available tools.
- Select the "Save as Draft" option.
- Verify that the course is saved as a draft and can be accessed later.

**\*\*Test Case 5:\*\*** Verify that courses can be edited post-publishing

**\*\*Test Case ID:\*\*** TC-Course-PostPublishEdit

**\*\*Test Case Title:\*\*** Test course editing after publication

**\*\*Test Case Description:\*\*** This test case confirms that instructors can make changes to their published courses.

**\*\*Test Data:\*\*** Published course with existing content

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

- Publish a course.



- Access the course editor.
  - Edit the course content or multimedia elements.
  - Verify that the changes are saved and reflected in the published course.
- 

## **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:**

## ## Online Learning Platform - Interactive Lessons Test Cases

**\*\*Test Case 1:\*\*** Verify that quizzes can be added to interactive lessons and their scores are tracked.

**\*\*Test Case Description:\*\*** This test case verifies the creation and execution of quizzes within interactive lessons and tracks the learner's performance.

**\*\*Test Data:\*\*** Quiz question with multiple-choice options.

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

- Create a new interactive lesson.
- Add a quiz with 5 multiple-choice questions.
- Complete the quiz and verify score is recorded.

**\*\*Test Case 2:\*\*** Verify that interactive lessons are accessible on various devices.

**\*\*Test Case Description:\*\*** This test case ensures that interactive lessons are accessible and render properly across different devices.

**\*\*Test Data:\*\*** Desktop computer, Laptop, Mobile phone, Tablet.

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

- Access the online learning platform from different devices.
- Open an interactive lesson on each device.
- Verify that the lesson loads and functions smoothly.

**\*\*Test Case 3:\*\*** Verify interactive elements are seamlessly integrated into the lesson content.

**\*\*Test Case Description:\*\*** This test case checks the seamless integration of interactive elements like polls, simulations, and discussions within the lesson content.

**\*\*Test Data:\*\*** None.

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

- Open an interactive lesson.
- Participate in a poll.
- Engage in a discussion.
- Verify that the interactive elements function as intended.

**\*\*Test Case 4:\*\*** Verify that feedback is provided after completing interactive activities.

**\*\*Test Case Description:\*\*** This test case ensures that learners receive feedback after completing interactive activities like quizzes and simulations.

**\*\*Test Data:\*\*** Quiz answer, Simulation result.

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

- Complete a quiz or simulation within an interactive lesson.
- Verify that feedback is provided based on the activity completion.

**\*\*Test Case 5:\*\*** Verify that learners can track their progress through interactive lessons.

**\*\*Test Case Description:\*\*** This test case checks the functionality of the progress tracking feature for interactive lessons.

**\*\*Test Data:\*\*** None.

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

- Open an interactive lesson.
- Complete various interactive activities within the lesson.
- Verify that the progress is tracked and displayed appropriately.

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**Data - 51**

**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:**

## Online Learning Platform - Personalized Learning Paths Test Cases

**\*\*Test Case Creation Template:\*\***

**\*\*Test Case ID:\*\*** TC-123

**\*\*Test Case Title:\*\*** Verify that learners can choose courses and modules based on their interests

**\*\*Test Case Description:\*\*** This test case verifies that users can select courses and modules from the platform based on their selected interests.

**\*\*Test Suite:\*\*** Functional Testing

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

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

- Interest: "Machine Learning"

- Course: "Introduction to Machine Learning"

- Module: "Basic Machine Learning Algorithms"

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

1. Login to the platform as a learner.
2. Navigate to the "Personalized Learning Paths" section.
3. Select the "Choose Interests" tab.
4. Select the "Machine Learning" interest.
5. Verify that only courses and modules relevant to the interest are displayed.
6. Select the "Introduction to Machine Learning" course.
7. Verify that the course is added to the learner's personalized learning path.

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

The learner's personalized learning path includes the selected course and its related modules.

**\*\*Severity:\*\*** Major

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

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

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

**\*\*Additional Test Cases:\*\***

**\*\*1. Verify that personalized learning paths adjust dynamically based on learner progress.\*\***

- Test Case ID: TC-124

- Test Case Description: This test case ensures that the platform dynamically adjusts the personalized learning path based on the learner's progress in each course/module.

- Test Steps: Complete a course, review progress, verify that new modules relevant to the completed content

are added to the path.

**\*\*2. Verify that learners receive recommendations for new courses and modules.\*\***

- Test Case ID: TC-125

- Test Case Description: This test case verifies the system suggests relevant courses and modules based on the learner's interests and progress.

- Test Steps: Review recommended courses and modules, ensure they are appropriate based on the learner's learning journey.

**\*\*3. Verify that progress tracking is personalized to each learner's path.\*\***

- Test Case ID: TC-126

- Test Case Description: This test case ensures that the platform tracks learner progress specifically for their personalized learning path.

- Test Steps: Track progress through the platform, ensure that individual achievements and completion rates are accurately reflected.

**\*\*4. Verify that learners can adjust their learning paths at any time.\*\***

- Test Case ID: TC-127

- Test Case Description: This test case verifies that learners can modify their personalized learning paths as needed.

- Test Steps: Change the selected courses/modules, verify that the updated path is reflected in the learner's learning history.

**\*\*5. Verify that the learner's progress is synchronized across devices.\*\***

- Test Case ID: TC-128

- Test Case Description: This test case ensures that learner progress is synchronized seamlessly across different devices and browsers.

- Test Steps: Log in to the platform from different devices, confirm that the personalized learning path and progress are consistent across all platforms.

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## **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:**

### **## Test Cases for Progress Tracking Feature**

**\*\*Test Case 1:\*\*** Verify that completed activities and grades are displayed in the progress tracker

- **\*\*Test Case ID:\*\*** PT-1
- **\*\*Test Case Description:\*\*** Tests the display of completed activities and corresponding grades in the progress tracker for various courses and modules.
- **\*\*Test Data:\*\*** Various courses and modules with different completion statuses.
- **\*\*Test Steps:\*\***
  - Enroll in a course/module.
  - Complete activities/tasks.
  - Verify that the completed activities and grades are reflected in the progress tracker.

**\*\*Test Case 2:\*\*** Verify that detailed reports on progress can be generated

- **\*\*Test Case ID:\*\*** PT-2
- **\*\*Test Case Description:\*\*** Tests the generation of detailed reports on progress, including completed activities, grades, and tracking over time.
- **\*\*Test Data:\*\*** Course/module data with completion records.
- **\*\*Test Steps:\*\***
  - Navigate to the progress tracking report section.
  - Select desired time period and filter parameters.

- Verify the report includes relevant data and trends.

**\*\*Test Case 3:\*\*** Verify that achievements are highlighted in the progress tracker

- **\*\*Test Case ID:\*\*** PT-3
- **\*\*Test Case Description:\*\*** Tests the highlighting of achievements in the progress tracker for completed courses and certifications.
- **\*\*Test Data:\*\*** Course completion records and certifications earned.
- **\*\*Test Steps:\*\***
  - Complete a course/earn a certification.
  - Verify that the achievement is listed in the progress tracker with appropriate highlighting.

**\*\*Test Case 4:\*\*** Verify that learners receive notifications about their progress

- **\*\*Test Case ID:\*\*** PT-4
- **\*\*Test Case Description:\*\*** Tests the delivery of notifications regarding progress, including completed activities and achievements.
- **\*\*Test Data:\*\*** User account with subscribed notifications.
- **\*\*Test Steps:\*\***
  - Complete an activity/earn a certificate.
  - Verify that a notification is received for the completed action.

**\*\*Test Case 5:\*\*** Verify that progress tracking data can be exported as reports

- **Test Case ID:** PT-5
  - **Test Case Description:** Tests the functionality of exporting progress tracking data as reports in different formats.
  - **Test Data:** Export settings and various report formats.
  - **Test Steps:**
    - Navigate to the progress tracking report section.
    - Select the option to export the data.
    - Verify that the exported report contains the desired data.
- 

## **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:**

## Online Learning Platform - Assessment and Grading Test Cases

**\*\*Test Case Creation Template:\*\***

**\*\*Test Case ID:\*\*** QA-001

**\*\*Test Case Title:\*\*** Verify that instructors can create quizzes with various question types.

**\*\*Test Case Description:\*\*** This test case verifies that instructors can create quizzes comprising multiple question types, including multiple-choice, short answer, and essays.

**\*\*Test Suite:\*\*** Assessment Creation

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

**\*\*Preconditions:\*\*** User has instructor role, course created.

**\*\*Test Data:\*\*** Quiz title, question types, answer options.

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

- Navigate to the Assessment creation page.
- Select "Quiz" as the assessment type.
- Provide a quiz title.
- Add multiple question types to the quiz.
- Specify answer options for multiple-choice questions.
- Save the quiz.

**\*\*Expected Result:\*\*** Quiz is created with the specified question types and answer options.

**\*\*Severity:\*\* Minor**

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

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

**\*\*Additional Test Cases:\*\***

**\*\*1. Verify that instructors can create tests with subjective questions.\*\***

- Test Case ID: QA-002

- Test Case Description: This test case verifies the ability to create tests with open-ended questions that require manual grading.

- Test Steps: Create a test, add short answer or essay questions, save the test.

- Expected Result: Test is created with the specified question types.

**\*\*2. Verify that automatic grading is available for objective questions.\*\***

- Test Case ID: QA-003

- Test Case Description: This test case verifies the automatic grading functionality for multiple-choice questions.

- Test Steps: Create a quiz with multiple-choice questions, submit the quiz, review results.

- Expected Result: Automatic grading calculates scores for multiple-choice questions.

**\*\*3. Verify that feedback is provided to learners after grading.\*\***

- Test Case ID: QA-004

- Test Case Description: This test case verifies that feedback is provided to learners upon completing assessments.

- Test Steps: Create an assessment, have a learner submit the assessment, review results.

- Expected Result: Feedback is provided on the performance, including scores and strengths/weaknesses.

**\*\*4. Verify that instructors can download assessment reports.\*\***

- Test Case ID: QA-005
- Test Case Description: This test case verifies the download of comprehensive assessment reports.
- Test Steps: Create an assessment, generate report, download report.
- Expected Result: Assessment report is downloaded in a readily accessible format.

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## **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:**

### **## Online Learning Platform - Discussion Forums Test Cases**

**\*\*Test Case ID:\*\* FD-1**

**\*\*Test Case Title:\*\*** Verify that learners can post questions in forums.

**\*\*Test Case Description:\*\*** This test case verifies that users can create new posts containing text and attachments within discussion forums.

**\*\*Test Data:\*\*** Username, password, question text, file attachment

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

1. Log in as a learner.
2. Navigate to the relevant discussion forum.
3. Click on the "Post New Discussion" button.
4. Enter a question title and provide a detailed question in the text field.
5. Optionally, attach relevant files.
6. Click the "Post" button.

**\*\*Expected Result:\*\*** The post appears in the forum, displaying the question text and uploaded files.

**\*\*Test Case ID:\*\* FD-2**

**\*\*Test Case Title:\*\*** Verify that forums support threaded discussions.

**\*\*Test Case Description:\*\*** This test case checks that replies to existing posts are properly nested within the thread.

**\*\*Test Data:\*\*** Username, password, existing discussion thread

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

1. Locate an existing discussion thread.

2. Reply to a post by clicking the "Reply" button.

3. Enter a reply text and click "Reply."

**\*\*Expected Result:\*\*** The reply is added as a nested response beneath the original post within the thread.

**\*\*Test Case ID:\*\*** FD-3

**\*\*Test Case Title:\*\*** Verify that instructors can moderate discussions.

**\*\*Test Case Description:\*\*** This test case confirms instructors can access moderation tools and manage discussions.

**\*\*Test Data:\*\*** Instructor username, password

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

1. Log in as an instructor.
2. Navigate to the "Moderation" section of the forum.
3. Select a discussion thread.
4. Use the provided tools to approve/delete posts and manage visibility.

**\*\*Expected Result:\*\*** The instructor can effectively manage and control discussion content.

**\*\*Test Case ID:\*\*** FD-4

**\*\*Test Case Title:\*\*** Verify that learners receive notifications for new posts.

**\*\*Test Case Description:\*\*** This test case assesses the delivery of notifications when new posts are added to the forum.

**\*\*Test Data:\*\*** Learner username, password

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

1. Configure notification preferences in user settings.
2. Create a new discussion thread or post a reply.
3. Monitor notification alerts.



**\*\*Expected Result:\*\*** Learners receive timely and relevant notifications for new forum interactions.

**\*\*Test Case ID:\*\*** FD-5

**\*\*Test Case Title:\*\*** Verify that forums are accessible on all devices.

**\*\*Test Case Description:\*\*** This test case confirms that the forum interface functions seamlessly across different devices.

**\*\*Test Data:\*\*** Various devices (desktop, laptop, mobile)

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

- 1. Access the forum from multiple devices.
- 2. Verify that all features and functionalities are available on each device.

**\*\*Expected Result:\*\*** Consistent forum access and functionality across all supported devices.

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**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 & Webinars feature

**\*\*Test Case 1:\*\*** Verify that live classes and webinars are conducted through video conferencing tools.

**\*\*Test Case ID:\*\*** LIVE\_WEB\_001

**\*\*Test Case Description:\*\*** Tests the primary mode of communication for live sessions.

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

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

- Launch the online learning platform.
- Navigate to the "Live Classes & Webinars" section.
- Select a scheduled live session or webinar.
- Verify that the video conferencing tool is embedded and ready for connection.

**\*\*Test Case 2:\*\*** Verify that learners can ask questions in real-time.

**\*\*Test Case ID:\*\*** LIVE\_WEB\_002

**\*\*Test Case Description:\*\*** Tests the real-time Q&A functionality during live sessions.

**\*\*Test Data:\*\*** Test question string

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

- Join a live session as a learner.
- Raise your hand or utilize the Q&A tool.
- Type and submit a question.
- Verify that the question appears in the designated area and is visible to the instructor.

**\*\*Test Case 3:\*\*** Verify that sessions are recorded and available for later viewing.

**\*\*Test Case ID:\*\*** LIVE\_WEB\_003

**\*\*Test Case Description:\*\*** Tests the functionality of recording and playback features.

**\*\*Test Data:\*\*** Session title

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

- Attend a live session.
- Verify that the session is being recorded.
- End the session.
- Navigate to the "Past Sessions" section.
- Locate the recorded session and play it back.

**\*\*Test Case 4:\*\*** Verify that instructors can share screen and resources during sessions.

**\*\*Test Case ID:\*\*** LIVE\_WEB\_004

**\*\*Test Case Description:\*\*** Tests the screen sharing and resource sharing capabilities for instructors.

**\*\*Test Data:\*\*** Presentation file or document

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

- Join a live session as an instructor.
- Select the "Share Screen" option.
- Share a presentation file or document from your local system.
- Verify that the shared content is visible to learners in the session.

**\*\*Test Case 5:\*\*** Verify that notifications are sent before sessions start.

**\*\*Test Case ID:\*\*** LIVE\_WEB\_005

**\*\*Test Case Description:\*\*** Tests the notification system for upcoming live sessions.

**\*\*Test Data:\*\*** Session details

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

- Check your notification settings.
- Schedule a live session.
- Verify that a notification is sent beforehand with session details.

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**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 1:\*\*** Verify that the platform is accessible on smartphones and tablets.

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

Validate that the platform's interface adapts seamlessly to different screen sizes of smartphones and tablets, ensuring comfortable navigation and usability.

**\*\*Test Data:\*\*** Various screen sizes of smartphones and tablets.

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

- Launch the platform on different mobile devices.
- Verify that the layout is responsive and adjusts to the screen size.
- Check that all necessary elements are visible and accessible.

**\*\*Expected Result:\*\*** The platform renders optimally and is accessible across different mobile devices.

**\*\*Test Case 2:\*\*** Verify that the Mobile UI is optimized for touch navigation.

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

Ensure that touch interactions on the mobile interface are accurate, responsive, and intuitive.

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

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

- Perform various touch gestures such as tapping, swiping, and pinching.
- Verify that touch interactions trigger the desired actions promptly and accurately.
- Check for responsiveness and smoothness of touch navigation.

**\*\*Expected Result:\*\*** Intuitive and responsive touch navigation.

**\*\*Test Case 3:\*\*** Verify that course materials are accessible and readable on mobile devices.

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

Ensure that course materials are displayed clearly and legibly on mobile devices.

**\*\*Test Data:\*\*** Various course materials in different formats (text, images, videos, documents).

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

- Download and open various course materials on mobile devices.
- Verify that the content is displayed legibly and without distortion.
- Check for compatibility with different multimedia formats.

**\*\*Expected Result:\*\*** Accessible and readable course materials on mobile devices.

**\*\*Test Case 4:\*\*** Verify that notifications are sent to mobile devices.

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

Ensure that notifications related to courses, deadlines, and updates are delivered seamlessly to mobile devices.

**\*\*Test Data:\*\*** Sample notifications related to courses and platform updates.

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

- Enable notification settings on the mobile device.
- Trigger events that trigger notification delivery.
- Verify that notifications are received promptly and correctly on the mobile device.

**\*\*Expected Result:\*\*** Timely delivery of notifications on mobile devices.

**\*\*Test Case 5:\*\*** Verify that the platform supports offline access to downloaded materials.

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

Ensure that learners can access downloaded course materials offline without internet connectivity.

**\*\*Test Data:\*\*** Downloaded course materials in various formats.

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

- Download course materials while connected to the internet.
- Disconnect from the internet connection.
- Verify that downloaded materials can be accessed offline.



**\*\*Expected Result:\*\*** Smooth offline access to downloaded materials.

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**Data - 57**

**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 -**

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 1:\*\*** Verify that learners can access the resource library.

**\*\*Test Case ID:\*\*** RES-001

**\*\*Test Case Description:\*\*** This test case verifies that users can access the resource library page and navigate its interface.

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

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

- Login to the online learning platform.
- Navigate to the Resource Library section.
- Verify the page title and content.

**\*\*Expected Result:\*\*** The user should be able to access the resource library page successfully.

**\*\*Test Case 2:\*\*** Verify that the resource library includes e-books.

**\*\*Test Case ID:\*\*** RES-002

**\*\*Test Case Description:\*\*** This test case verifies that the resource library includes downloadable e-books.

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

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

- Navigate to the Resource Library section.
- Search for a keyword associated with an ebook.
- Verify that the search results include downloadable ebooks.

**\*\*Expected Result:\*\*** The search results should include downloadable ebooks.

**\*\*Test Case 3:\*\*** Verify that learners can search for specific materials.

**\*\*Test Case ID:\*\*** RES-003

**\*\*Test Case Description:\*\*** This test case verifies that users can search for specific materials within the resource library.

**\*\*Test Data:\*\*** "Machine Learning Algorithms"

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

- Navigate to the Resource Library section.
- Enter a search query into the search bar.
- Verify that the search results are relevant to the query.

**\*\*Expected Result:\*\*** The search results should pertinently relate to the entered search query.

**\*\*Test Case 4:\*\*** Verify that resources are categorized and tagged for easy navigation.

**\*\*Test Case ID:\*\* RES-004**

**\*\*Test Case Description:\*\*** This test case verifies that resources are categorized and tagged for easy navigation.

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

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

- Navigate to the Resource Library section.
- Browse through different resource categories.
- Verify that resources are tagged appropriately and aligned with their categories.

**\*\*Expected Result:\*\*** Resources should be categorized and tagged logically for easy navigation.

**\*\*Test Case 5:\*\*** Verify that learners can download resources for offline access.

**\*\*Test Case ID:\*\* RES-005**

**\*\*Test Case Description:\*\*** This test case verifies that users can download resources for offline access.

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

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

- Navigate to the Resource Library section.
- Select a downloadable resource.
- Verify that the resource can be downloaded to the user's device.

**\*\*Expected Result:\*\*** Users should be able to download resources for offline access.

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**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:**

## Online Learning Platform - Peer Review Test Cases

**\*\*Test Case ID:\*\* QA-1**

**\*\*Test Case Title:\*\* Verify that learners can submit assignments for peer review**

**\*\*Test Case Description:\*\* This test case verifies the functionality of submitting assignments for peer review within the platform.**

**\*\*Test Suite:\*\* Peer Review Feature**

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

**\*\*Preconditions:\*\* User has enrolled in a course with peer review enabled, assignment is created for peer review.**

**\*\*Test Data:\*\* Assignment file, relevant subject matter.**

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

1. Navigate to the assigned course
2. Locate the assignment within the peer review section
3. Initiate the assignment submission process
4. Select the file for submission
5. Verify the submission is successful.

**\*\*Postconditions:\*\* Assignment status changed to "Submitted for Review."**

**\*\*Expected Result:\*\* The assignment is successfully submitted for peer review.**

**\*\*Test Case ID:\*\* QA-2**

**\*\*Test Case Title:\*\* Verify that peers can provide feedback on submitted assignments**

**\*\*Test Case Description:\*\* This test case verifies the functionality of providing feedback on submitted assignments by peers.**

**\*\*Test Suite:\*\* Peer Review Feature**

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

**\*\*Preconditions:\*\* User has accepted an assignment for peer review.**

**\*\*Test Data:\*\*** Feedback comments.

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

1. Navigate to the assigned course
2. Locate the submitted assignment
3. Review the assignment content
4. Provide detailed and constructive feedback
5. Submit the feedback.

**\*\*Postconditions:\*\*** Review status updated to "Feedback Provided."

**\*\*Expected Result:\*\*** Feedback is provided on the submitted assignment.

**\*\*Test Case ID:\*\*** QA-3

**\*\*Test Case Title:\*\*** Verify that a structured review process guides the feedback

**\*\*Test Case Description:\*\*** This test case verifies that the platform provides a structured review process to guide feedback.

**\*\*Test Suite:\*\*** Peer Review Feature

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

**\*\*Preconditions:\*\*** Feedback mechanism is activated.

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

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

1. Review guidelines for providing feedback
2. Provide feedback following the outlined guidelines
3. Verify that feedback adheres to the predefined structure.

**\*\*Postconditions:\*\*** Structured feedback is provided.

**\*\*Expected Result:\*\*** Feedback aligns with the established review process.

**\*\*Test Case ID:\*\* QA-4**

**\*\*Test Case Title:\*\* Verify that learners can view feedback on their work**

**\*\*Test Case Description:\*\* This test case verifies the functionality of accessing feedback on submitted assignments.**

**\*\*Test Suite:\*\* Peer Review Feature**

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

**\*\*Preconditions:\*\* User has submitted an assignment for peer review.**

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

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

1. Navigate to the assigned course
2. Locate the submitted assignment
3. Review the provided feedback
4. Verify the completeness of feedback.

**\*\*Postconditions:\*\* Feedback is accessible.**

**\*\*Expected Result:\*\* Feedback is available for review.**

**\*\*Test Case ID:\*\* QA-5**

**\*\*Test Case Title:\*\* Verify that reviewers remain anonymous in the process.**

**\*\*Test Case Description:\*\* This test case verifies the anonymity of reviewers during the peer review process.**

**\*\*Test Suite:\*\* Peer Review Feature**

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

**\*\*Preconditions:\*\* User is assigned to review an assignment.**

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

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

1. Review an assignment as a peer
2. Verify that the reviewer's identity remains anonymous throughout the process.



3. Verify that feedback is provided without revealing the reviewer's identity.

**\*\*Postconditions:\*\*** Reviewer anonymity is maintained.

**\*\*Expected Result:\*\*** Reviewers remain anonymous during the peer review process.

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## **Data - 59**

### **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:**

## ## Online Learning Platform - Certificates & Badges Test Cases

**\*\*Test Case 1:\*\*** Verify that certificates are awarded upon successful completion of a course.

**\*\*Test Case ID:\*\*** QC-1

**\*\*Test Case Title:\*\*** Verify that certificates are awarded upon successful completion of a course.

**\*\*Test Case Description:\*\*** This test case verifies that certificates are automatically awarded to learners when they successfully complete a course.

**\*\*Test Suite:\*\*** Functional Testing

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

**\*\*Preconditions:\*\*** Learner account created, course completed

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

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

1. Enroll in a course.
2. Complete all course requirements.
3. Verify certificate is awarded on completion.

**\*\*Postconditions:\*\*** N/A

**\*\*Expected Result:\*\*** Certificate is issued and displayed on learner profile.

**\*\*Severity:\*\*** Minor

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

**\*\*Type of Testing:\*\*** Acceptance Testing

**\*\*Test Case 2:\*\*** Verify that badges are awarded for specific achievements.

**\*\*Test Case ID:\*\*** QC-2

**\*\*Test Case Title:\*\*** Verify that badges are awarded for specific achievements.

**\*\*Test Case Description:\*\*** This test case verifies that badges are awarded for reaching specific milestones and completing certain activities.

**\*\*Test Suite:\*\*** Functional Testing

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

**\*\*Preconditions:\*\*** Learner account created, specific activities completed

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

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

1. Complete a quiz with a high score.
2. Participate in an online discussion
3. Achieve a certain progress level in a course.
4. Verify badge is awarded for each achievement.

**\*\*Postconditions:\*\*** N/A

**\*\*Expected Result:\*\*** Badge is displayed on learner profile alongside achievement details.

**\*\*Severity:\*\*** Minor

**\*\*Priority:\*\*** Medium

**\*\*Test Case 3:\*\*** Verify that certificates and badges are accessible through learner profiles.

**\*\*Test Case ID:\*\*** QC-3

**\*\*Test Case Title:\*\*** Verify that certificates and badges are accessible through learner profiles.

**\*\*Test Case Description:\*\*** This test case verifies that learners can access both certificates and badges through their profile.

**\*\*Test Suite:\*\*** Functional Testing

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

**\*\*Preconditions:\*\*** Learner account created, certificates/badges awarded

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

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

1. Login to learner profile.
2. Navigate to the certificates/badges section.
3. Verify that awarded certificates and badges are listed.

**\*\*Postconditions:\*\*** N/A

**\*\*Expected Result:\*\*** Certificate and badge details are displayed in the learner profile.

**\*\*Severity:\*\*** Minor

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

**\*\*Test Case 4:\*\*** Verify that learners can share their certificates and badges on social media.

**\*\*Test Case ID:\*\*** QC-4

**\*\*Test Case Title:\*\*** Verify that learners can share their certificates and badges on social media.

**\*\*Test Case Description:\*\*** This test case verifies that learners can easily share their certificates and badges on popular social media platforms.

**\*\*Test Suite:\*\*** Functional Testing

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

**\*\*Preconditions:\*\*** Learner account connected with social media platform

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

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

1. Share a certificate/badge on Facebook/Twitter.
2. Verify that the certificate/badge is shared successfully.

**\*\*Postconditions:\*\*** N/A

**\*\*Expected Result:\*\*** Certificate/badge is shared on the chosen social media platform.

**\*\*Severity:\*\*** Minor

**\*\*Priority:\*\*** Medium

**\*\*Test Case 5:\*\*** Verify that instructors can issue custom badges for special achievements.

**\*\*Test Case ID:\*\*** QC-5

**\*\*Test Case Title:\*\*** Verify that instructors can issue custom badges for special achievements.

**\*\*Test Case Description:\*\*** This test case verifies that instructors can create and award custom badges to learners who achieve specific milestones.

**\*\*Test Suite:\*\*** Functional Testing

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

**\*\*Preconditions:\*\*** Instructor account with access to custom badge creation feature

**\*\*Test Data:\*\*** Custom badge criteria

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

1. Instructor creates a custom badge with specific criteria.
2. Learner achieves the criteria defined for the badge.
3. Verify that the custom badge is awarded.

**\*\*Postconditions:\*\*** N/A

**\*\*Expected Result:\*\*** Custom badge is awarded to the learner when they meet the defined criteria.

**\*\*Severity:\*\*** Minor

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

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**Data - 60**

**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:**

## Online Learning Platform - Gamification Elements Test Cases

**\*\*Test Case 1: Points Award Functionality\*\***

**\*\*Test Case ID:\*\*** GAM-1

**\*\*Test Case Title:\*\*** Verify that points are awarded correctly for completed activities.

**\*\*Test Case Description:\*\*** Test if points are correctly assigned for various activities like completing quizzes, interacting in forums, and submitting assignments.

**\*\*Test Data:\*\*** List of activities and associated points.

**\*\*Expected Result:\*\*** Points are awarded and displayed correctly for completed activities.

**\*\*Test Case 2: Level Progression\*\***

**\*\*Test Case ID:\*\*** GAM-2

**\*\*Test Case Title:\*\*** Verify that levels are achieved based on accumulated points.

**\*\*Test Case Description:\*\*** Test if points earned trigger level progression and display the corresponding level on the user profile.

**\*\*Test Data:\*\*** Existing user data with accumulated points.

**\*\*Expected Result:\*\*** Levels are updated and displayed correctly based on the total points earned.

**\*\*Test Case 3: Leaderboards Functionality\*\***

**\*\*Test Case ID:\*\*** GAM-3

**\*\*Test Case Title:\*\*** Verify that leaderboards display top-performing learners.

**\*\*Test Case Description:\*\*** Test if the leaderboard functionality displays users in order of their points achieved.

**\*\*Test Data:\*\*** User data with different points.

**\*\*Expected Result:\*\*** Leaderboard positions are accurate and updated in real-time.

**\*\*Test Case 4: Badge Awarding\*\***

**\*\*Test Case ID:\*\*** GAM-4

**\*\*Test Case Title:\*\*** Verify that badges are awarded for reaching milestones.

**\*\*Test Case Description:\*\*** Test if badges are automatically awarded to users who meet the requirements.

**\*\*Test Data:\*\*** User activity logs and milestones.

**\*\*Expected Result:\*\*** Badges are awarded correctly and displayed on the user profile.

**\*\*Test Case 5: Gamification Dashboard\*\***

**\*\*Test Case ID:\*\*** GAM-5

**\*\*Test Case Title:\*\*** Verify that the gamification dashboard provides an overview of progress.

**\*\*Test Case Description:\*\*** Test if the dashboard displays earned points, levels, leaderboards, and completed activities.

**\*\*Test Data:\*\*** User data with relevant gamification data.

**\*\*Expected Result:\*\*** The gamification dashboard provides a comprehensive overview of the user's progress and gamification activities.

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**Data - 61**

**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**

**\*\*Test Case ID:\*\* TC-1**

**\*\*Test Case Title:\*\* Verify that the platform interface is available in multiple languages.**

**\*\*Test Case Description:\*\* Test that the login page and main platform interface are available in English, Spanish, and French.**

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

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

- Navigate to the login page.
- Select different languages from the language selector.
- Verify that the interface elements are translated correctly.

**\*\*Test Case ID:\*\* TC-2**

**\*\*Test Case Title:\*\* Verify that course materials are available in different languages.**

**\*\*Test Case Description:\*\*** Test that course materials in various subjects are available in English, Spanish, and French.

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

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

- Search for a course in a specific subject.
- Verify that the course materials and related resources are available in the selected language.

**\*\*Test Case ID:\*\*** TC-3

**\*\*Test Case Title:\*\*** Verify that learners can select their preferred language at any time.

**\*\*Test Case Description:\*\*** Test that users can change their preferred language during their interaction with the platform.

**\*\*Test Data:\*\*** English, Spanish, French

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

- Log in to the platform.
- Go to user settings.
- Select a different language from the language options.
- Verify that the interface and related elements are displayed in the selected language.

**\*\*Test Case ID:\*\*** TC-4

**\*\*Test Case Title:\*\*** Verify that multilingual support includes translated help and support resources.

**\*\*Test Case Description:\*\*** Test that the platform provides translated help guides and support resources in multiple languages.

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

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

- Access the help center section.

- Verify that documentation and support materials are available in the selected language.

**\*\*Test Case ID:\*\* TC-5**

**\*\*Test Case Title:\*\* Verify that instructors can provide content in multiple languages.**

**\*\*Test Case Description:\*\* Test that instructors can upload course materials and other content in various languages.**

**\*\*Test Data:\*\* English, Spanish, French**

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

- Create a course.
- Upload course materials in different languages.
- Verify that the uploaded materials are displayed correctly in the selected language.

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## **Data - 62**

### **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:**

#### **## Online Learning Platform Accessibility Features Test Cases**

**\*\*Test Case ID:\*\* QA-1**

**\*\*Test Case Title:\*\* Verify that the platform is compatible with screen readers.**

**\*\*Test Case Description:\*\* Test that screen readers can effectively navigate the platform, accessing content and interacting with elements.**

**\*\*Test Suite:\*\* Functional Testing**

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

**\*\*Preconditions:\*\* Screen reader software installed, accessible website.**

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

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

- Load the platform website.
- Enable screen reader.
- Navigate through various pages and menus.
- Verify that screen reader announcements are clear and accurate.
- Test accessibility of specific features like video lectures, downloadable resources and discussion forums.

**\*\*Expected Result:\*\* Smooth and seamless navigation for screen reader users.**

**\*\*Test Case ID:\*\* QA-2**

**\*\*Test Case Title:\*\* Verify that learners can adjust font sizes for better readability.**

**\*\*Test Case Description:\*\* Test that users can adjust font sizes to their individual needs.**

**\*\*Test Suite:\*\* Functional Testing**

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

**\*\*Preconditions:\*\* User account created, accessibility features enabled.**

**\*\*Test Data:\*\* Various font sizes.**

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

- Access the accessibility settings.
- Adjust the font size slider.
- Verify that the font size changes on the entire page.
- Test different font sizes across various content types.

**\*\*Expected Result:\*\* Adjustable font sizes ensure comfortable readability for users with visual impairments.**

**\*\*Test Case ID:\*\* QA-3**

**\*\*Test Case Title:\*\* Verify that color contrast options are available for improved visibility.**

**\*\*Test Case Description:\*\* Test that sufficient color contrast variations are available to improve accessibility for users with low vision.**

**\*\*Test Suite:\*\* Functional Testing**

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

**\*\*Preconditions:\*\* Accessibility features enabled.**

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

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

- Access the accessibility settings.

- Verify the availability of different color contrast options.
- Test the accessibility of key features using different color combinations.

**\*\*Expected Result:\*\*** Accessible color contrast options enhance visibility and readability for users with visual impairments.

**\*\*Test Case ID:\*\*** QA-4

**\*\*Test Case Title:\*\*** Verify that accessibility features are easy to activate and customize.

**\*\*Test Case Description:\*\*** Test that users can easily activate and personalize accessibility features without technical knowledge.

**\*\*Test Suite:\*\*** Functional Testing

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

**\*\*Preconditions:\*\*** User account created.

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

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

- Access the accessibility settings.
- Test the activation and customization process for various features.
- Verify clear instructions and user-friendly controls.

**\*\*Expected Result:\*\*** Accessible features are accessible and manageable for users of all abilities.

**\*\*Test Case ID:\*\*** QA-5

**\*\*Test Case Title:\*\*** Verify that support resources are available to assist learners with disabilities.

**\*\*Test Case Description:\*\*** Test that helpful resources and guidance are available for learners with disabilities.

**\*\*Test Suite:\*\*** Functional Testing

**\*\*Test Priority:\*\*** Low

**\*\*Preconditions:\*\*** Accessibility features enabled.

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

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

- Access the accessibility resources page.
- Browse through various resources such as tutorials, FAQs, and contact information.
- Test the accessibility of information and communication channels.

**\*\*Expected Result:\*\*** Comprehensive support resources empower learners with disabilities to utilize the platform effectively.

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## **Data - 63**

### **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-LD-01**

**\*\*Test Case Title:\*\* Verify that instructors can edit posts in discussions**

**\*\*Test Case Description:\*\* This test case verifies that instructors can edit their own posts in discussion forums.**

**\*\*Test Suite:\*\* Discussion Feature**

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

**\*\*Preconditions:\*\* Instructor account logged in, Discussion forum exists with user-generated posts.**

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

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

1. Navigate to a discussion forum
2. Locate and select a previously created post
3. Click the "Edit Post" button
4. Make necessary edits to the post content
5. Click the "Save Changes" button

**\*\*Postconditions:\*\* Edited post is displayed in the discussion forum**

**\*\*Expected Result:\*\* Post content is updated successfully**

**\*\*Severity:\*\* Minor**

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



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

**\*\*Test Case ID:\*\* TC-LD-02**

**\*\*Test Case Title:\*\* Verify that instructors can delete posts in discussions**

**\*\*Test Case Description:\*\* This test case verifies that instructors can delete their own posts in discussion forums.**

**\*\*Test Suite:\*\* Discussion Feature**

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

**\*\*Preconditions:\*\* Instructor account logged in, Discussion forum exists with user-generated posts.**

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

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

1. Navigate to a discussion forum
2. Locate and select a previously created post
3. Click the "Delete Post" button
4. Confirm the deletion in the dialog box

**\*\*Postconditions:\*\* Deleted post is no longer displayed in the discussion forum**

**\*\*Expected Result:\*\* Post is deleted successfully**

**\*\*Severity:\*\* Minor**

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

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

**\*\*Test Case ID:\*\* TC-LD-03**

**\*\*Test Case Title:\*\* Verify that instructors can highlight posts in discussions**

**\*\*Test Case Description:\*\* This test case verifies that instructors can highlight important posts in discussion forums.**

**\*\*Test Suite:\*\*** Discussion Feature

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

**\*\*Preconditions:\*\*** Instructor account logged in, Discussion forum exists with user-generated posts.

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

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

1. Navigate to a discussion forum
2. Locate and select a previously created post
3. Click the "Highlight Post" button
4. Choose the desired highlight color

**\*\*Postconditions:\*\*** Highlighted post is displayed in the discussion forum

**\*\*Expected Result:\*\*** Post is highlighted successfully

**\*\*Severity:\*\*** Minor

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

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

**\*\*Test Case ID:\*\*** TC-LD-04

**\*\*Test Case Title:\*\*** Verify that instructors can mute disruptive users in discussions

**\*\*Test Case Description:\*\*** This test case verifies that instructors can mute users who are disrupting the discussion.

**\*\*Test Suite:\*\*** Discussion Feature

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

**\*\*Preconditions:\*\*** Instructor account logged in, Discussion forum exists with active users.

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

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

1. Navigate to a discussion forum
2. Identify a disruptive user in the discussion

3. Click the "Mute User" button

4. Verify that the user's microphone and speak button are muted

**\*\*Postconditions:\*\*** Disruptive user's communication is restricted

**\*\*Expected Result:\*\*** User's microphone and speak button are muted successfully

**\*\*Severity:\*\*** Minor

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

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

**\*\*Test Case ID:\*\*** TC-LD-05

**\*\*Test Case Title:\*\*** Verify that moderation actions are logged and reported

**\*\*Test Case Description:\*\*** This test case verifies that all moderation actions taken by instructors are logged and reported.

**\*\*Test Suite:\*\*** Discussion Feature

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

**\*\*Preconditions:\*\*** Instructor account logged in, Discussion forum exists with user-generated posts.

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

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

1. Moderate a discussion post

2. Check the discussion forum page for a record of the moderation action

3. Navigate to the moderation logs page

4. Verify that the recorded moderation action is displayed

**\*\*Postconditions:\*\*** Moderation actions are logged and reported to the instructor

**\*\*Expected Result:\*\*** Moderation action is recorded and reported successfully

**\*\*Severity:\*\*** Minor

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

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

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## **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:**

## Test Cases for Learning Analytics Feature

**\*\*1. Verify that engagement metrics are displayed on the analytics dashboard\*\***

**\*\*Test Case ID:\*\* LA-01**

**\*\*Test Case Description:\*\*** This test case verifies that the analytics dashboard displays various engagement metrics such as average session time, number of unique learners, and number of page views by learners.

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

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

- Log in as an instructor.
- Navigate to the Learning Analytics dashboard.
- Verify that engagement metrics are displayed in the designated sections.
- Ensure that the data is accurate and up-to-date.

**\*\*Expected Result:\*\*** The analytics dashboard displays relevant engagement metrics.

**\*\*2. Verify that performance trends are visualized over time\*\***

**\*\*Test Case ID:\*\*** LA-02

**\*\*Test Case Description:\*\*** This test case verifies that the analytics dashboard provides visualizations of performance trends over different time periods, such as graphs and charts.

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

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

- Navigate to the Learning Analytics dashboard.
- Select the desired time period for performance data analysis.
- Verify that various performance trends are visualized on the dashboard.
- Ensure that the data is presented clearly and interpretively.

**\*\*Expected Result:\*\*** Performance trends are visualized effectively on the dashboard.

**\*\*3. Verify that instructors can access detailed reports on learner progress\*\***

**\*\*Test Case ID:\*\*** LA-03

**\*\*Test Case Description:\*\*** This test case verifies that instructors can access detailed reports on learner progress for individual learners or groups.

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

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

- Navigate to the Learning Analytics dashboard.
- Select the "Learner Progress" section.
- Choose a specific learner or group.
- Verify that detailed reports on learner progress are displayed.
- Ensure that the reports include relevant data such as completion rates, quiz scores, and engagement metrics.

**\*\*Expected Result:\*\*** Instructors can access detailed reports on learner progress.

**\*\*4. Verify that analytics data is updated in real-time\*\***

**\*\*Test Case ID:\*\* LA-04**

**\*\*Test Case Description:\*\*** This test case verifies that the analytics data is updated in real-time as learners interact with the platform.

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

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

- Have a learner perform an action on the platform (e.g., submit a quiz, participate in a discussion).
- Monitor the Learning Analytics dashboard in real-time.
- Verify that the analytics data reflects the learner's action immediately.

**\*\*Expected Result:\*\*** Analytics data is updated in real-time as learners engage with the platform.

**\*\*5. Verify that instructors can export analytics reports for further analysis\*\***

**\*\*Test Case ID:\*\* LA-05**

**\*\*Test Case Description:\*\*** This test case verifies that instructors can export analytics reports for further analysis in spreadsheet applications.

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

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

- Navigate to the Learning Analytics dashboard.
- Select the desired report.
- Click on the "Export" button.
- Verify that the report is exported in a compatible format (e.g., CSV, PDF).

**\*\*Expected Result:\*\*** Instructors can export analytics reports for further analysis.

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**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:

### ## Online Learning Platform - Social Learning Features Test Cases

**\*\*Test Case ID:\*\* OLS-01**

**\*\*Test Case Title:\*\*** Verify that learners can create groups for projects.

**\*\*Test Case Description:\*\*** This test case verifies that users can successfully create private groups for collaborative projects, inputting group names and assigning roles.

**\*\*Test Data:\*\*** Group name, member names (3-5)

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

- Log in as a learner.
- Navigate to the "Groups" section.
- Click "Create Group."
- Enter the group name and add members.
- Click "Create."

**\*\*Expected Result:\*\*** A confirmation message is displayed, and the created group appears in the "Groups" list.

**\*\*Test Case ID:\*\* OLS-02**

**\*\*Test Case Title:\*\*** Verify that collaboration tools are available for group communication.

**\*\*Test Case Description:\*\*** This test case verifies that group members can communicate and collaborate using tools like chat, video calls, and shared documents.

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

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

- Join an existing group.
- Check for the availability of chat and video call functions.
- Create or collaborate on a shared document.

**\*\*Expected Result:\*\*** Communication and collaboration tools function seamlessly within the group.

**\*\*Test Case ID:\*\*** OLS-03

**\*\*Test Case Title:\*\*** Verify that learners can share resources and feedback within groups.

**\*\*Test Case Description:\*\*** This test case verifies that learners can upload and download shared resources, provide feedback on documents, and respond to comments within groups.

**\*\*Test Data:\*\*** Document or resource file

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

- Upload a resource to the group.
- Review uploaded files and provide feedback.
- Respond to comments on shared documents.

**\*\*Expected Result:\*\*** Shared resources and feedback are accessible and manageable within the group.

**\*\*Test Case ID:\*\*** OLS-04

**\*\*Test Case Title:\*\*** Verify that instructors can assign group projects and monitor progress.

**\*\*Test Case Description:\*\*** This test case verifies that instructors can assign group projects, track student progress, and provide feedback.

**\*\*Test Data:\*\*** Project details and student list

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

- Create a group project assignment.

- Assign students to the group.
- Track students' progress and contributions.
- Provide feedback to students.

**\*\*Expected Result:\*\*** Project management features are efficient and transparent.

**\*\*Test Case ID:\*\*** OLS-05

**\*\*Test Case Title:\*\*** Verify that social sharing features allow learners to share achievements.

**\*\*Test Case Description:\*\*** This test case verifies users can share their achievements on social media platforms through the platform.

**\*\*Test Data:\*\*** Sample achievement to be shared

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

- Complete a course or project.
- Access the "Share Achievements" section.
- Select and share an achievement on chosen platforms.

**\*\*Expected Result:\*\*** Shared achievements are visible on selected social media platforms.

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**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:

## Online Learning Platform - Content Authoring Tools Test Cases

**\*\*Test Case ID:\*\* TC-CA-01**

**\*\*Test Case Title:\*\*** Verify that instructors can create multimedia presentations

**\*\*Test Case Description:\*\*** This test case verifies that instructors can create multimedia presentations within the content authoring tools.

**\*\*Test Suite:\*\*** Content Authoring Tools

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

**\*\*Preconditions:\*\*** 1. An instructor account is logged in. 2. The Content Authoring Tools section is accessible.

**\*\*Test Data:\*\*** Title, Content, Multimedia elements

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

- Navigate to the Content Authoring Tools section.
- Click the "Create New Presentation" button.
- Enter a title for the presentation.
- Insert multimedia elements (videos, animations, images) into the presentation.
- Save the presentation.

**\*\*Expected Result:\*\*** The presentation is successfully created and accessible to instructors.

**\*\*Severity:\*\*** Major

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

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

**\*\*Test Case ID:\*\*** TC-CA-02

**\*\*Test Case Title:\*\*** Verify that interactive modules can be developed and integrated

**\*\*Test Case Description:\*\*** This test case verifies that instructors can develop and integrate interactive modules into courses.

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

- Navigate to the Content Authoring Tools section.
- Click the "Create New Module" button.
- Select "Interactive Module" from the module type dropdown.
- Enter module content and interactive elements.
- Save the module.

**\*\*Expected Result:\*\*** The interactive module is successfully created and integrated into the course material.

**\*\*Severity:\*\*** High

**\*\*Priority:\*\*** Medium

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

**\*\*Test Case ID:\*\* TC-CA-03**

**\*\*Test Case Title:\*\* Verify that rich media resources are supported**

**\*\*Test Case Description:\*\* This test case verifies that instructors can add rich media resources such as videos and animations to their course materials.**

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

- Navigate to the Content Authoring Tools section.
- Create a new presentation or module.
- Click the "Insert Media" button.
- Select desired video or animation files.
- Insert the media into the content.

**\*\*Expected Result:\*\* The selected media files are successfully embedded into the course materials.**

**\*\*Severity:\*\* Medium**

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

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

**\*\*Test Case ID:\*\* TC-CA-04**

**\*\*Test Case Title:\*\* Verify that the content authoring tools are user-friendly and intuitive**

**\*\*Test Case Description:\*\* This test case verifies that the content authoring tools interface is user-friendly and intuitive for instructors with varying technical backgrounds.**

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

- Navigate to the Content Authoring Tools section.
- Attempt to create a new course or module.
- Review the interface elements and functionality.

**\*\*Expected Result:\*\* The interface is easy to navigate, with clear and concise features and options.**

**\*\*Severity:\*\* Medium**

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

**\*\*Type of Testing:\*\* Usability Testing, User Acceptance Testing**

**\*\*Test Case ID:\*\* TC-CA-05**

**\*\*Test Case Title:\*\* Verify that instructors can preview and edit content before publishing**

**\*\*Test Case Description:\*\* This test case verifies that instructors can preview their work before publishing it and make necessary edits.**

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

- Create or edit a course or module.
- Preview the content.
- Make necessary edits.
- Save and publish the final version.

**\*\*Expected Result:\*\* The published course or module is the final version reviewed in preview.**

**\*\*Severity:\*\* Minor**

**\*\*Priority:\*\* Medium**

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

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**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 Learning Paths and Curriculum Feature

**\*\*Test Case 1:\*\*** Verify that learning paths include sequential courses and modules.

**\*\*Test Case ID:\*\*** LP-001

**\*\*Test Case Description:\*\*** This test case verifies that the platform generates learning paths with multiple courses and modules in sequential order, as specified by the user story.

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

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



- Create a learning path with 5 courses.
- Verify that the courses appear in the designated sequence.
- Check if the progress tracker shows completion of each course in order.

**\*\*Expected Result:\*\*** The learning path contains multiple courses in the specified sequence.

**\*\*Test Case 2:\*\*** Verify that curricula are aligned with specific learning objectives.

**\*\*Test Case ID:\*\*** LP-002

**\*\*Test Case Description:\*\*** This test case checks that the learning paths associated with the curriculum match the predefined learning objectives.

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

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

- Select a curriculum associated with a specific learning objective.
- Review the list of learning paths associated with the curriculum.
- Verify that all learning paths are aligned with the chosen learning objective.

**\*\*Expected Result:\*\*** The learning paths align with the specified learning objective.

**\*\*Test Case 3:\*\*** Verify that learners can track their progress within a learning path.

**\*\*Test Case ID:\*\*** LP-003

**\*\*Test Case Description:\*\*** This test case ensures that learners can track their progress while working through a learning path by recording completed courses and modules.

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

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

- Enrol in a learning path.
- Complete a course within the path.
- Verify that the progress tracker reflects the completed course.
- Complete multiple courses and confirm that the progress tracker updates accordingly.

**\*\*Expected Result:\*\*** The platform accurately tracks learner progress within the learning path.

**\*\*Test Case 4:\*\*** Verify that instructors can customize learning paths for different needs.

**\*\*Test Case ID:\*\*** LP-004

**\*\*Test Case Description:\*\*** This test case checks that instructors can personalize learning paths for learners with specific needs or learning preferences.

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

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

- Log in as an instructor.
- Select an existing learning path.

- Edit the path and modify course order or inclusion.
- Save the changes and verify that they were applied correctly.

**\*\*Expected Result:\*\*** Instructors can modify learning paths according to their needs.

**\*\*Test Case 5:\*\*** Verify that notifications are sent for upcoming courses or milestones.

**\*\*Test Case ID:\*\*** LP-005

**\*\*Test Case Description:\*\*** This test case ensures that the platform sends timely notifications to learners about upcoming courses or significant achievements within the learning path.

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

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

- Enroll in a learning path.
- Set up notification preferences.
- Verify that notifications are received for upcoming courses or achieving key milestones.

**\*\*Expected Result:\*\*** The platform sends relevant notifications to learners throughout the learning process.

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**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:**

## Test Cases for Attendance Tracking Feature

**\*\*1. Verify that attendance is automatically recorded during live sessions.\*\***

**\* \*\*Test Data:\*\*** Instructor schedules a live session with 10 learners enrolled.

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

- Join the live session as an instructor.
- Observe attendance list automatically updating as learners join/leave.

**\* \*\*Expected Result:\*\*** Attendance data is recorded accurately for all participants.

**\*\*2. Verify that instructors can view attendance reports for each session.\*\***

**\* \*\*Test Data:\*\*** Test with different sessions and instructors.

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

- Navigate to the attendance reports page.
- Select a specific session from the list.
- Review the list of attendees and their timestamps.

**\* \*\*Expected Result:\*\*** Detailed attendance report is generated and accessible.

**\*\*3. Verify that learners can see their attendance records.\*\***

**\* \*\*Test Data:\*\*** One learner joins multiple live sessions.

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

- Access personal dashboard as a learner.
- Navigate to the attendance section.
- Verify that historical attendance data is displayed accurately.

**\* \*\*Expected Result:\*\*** Learners can review their individual attendance history.

**\*\*4. Verify that attendance data is integrated with participation metrics.\*\***

**\* \*\*Test Data:\*\*** Instructor facilitates an interactive lecture with diverse activities.

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

- Join the live session as a learner.

- Engage in various interactive activities.

- Review session report and observe attendance data aligned with participation levels.

\* \*\*Expected Result:\*\* Attendance data is correlated with corresponding participation metrics.

\*\*5. Verify that notifications are sent for missed sessions.\*\*

\* \*\*Test Data:\*\* Learner joins session, then leaves before the end.

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

- Join a live session as a learner.

- Deliberately leave the session before it ends.

- Check email inbox for notification regarding the missed session.

\* \*\*Expected Result:\*\* Learner receives a notification regarding the missed session.

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**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:**

**\*\*Test Case 1: Assign Content Licenses\*\***

**\*\*Test Case ID:\*\* TC-1**

**\*\*Test Case Title:\*\* Verify that content licenses are assigned to each resource.**

**\*\*Test Case Description:\*\* This test case verifies the ability to assign different content licenses to each uploaded resource.**

**\*\*Test Data:\*\* Various intellectual property licenses**

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

- Upload a resource to the platform.
- Select a content license from the dropdown menu.
- Verify that the assigned license is associated with the resource.

**\*\*Test Case 2: Define Usage Rights and Permissions\*\***

**\*\*Test Case ID:\*\* TC-2**

**\*\*Test Case Title:\*\*** Verify that usage rights and permissions are clearly defined.

**\*\*Test Case Description:\*\*** This test case verifies the ability to establish clear usage rights and permissions for specific resources.

**\*\*Test Data:\*\*** Detailed usage guidelines and permission levels

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

- Create a resource with defined usage rights and permissions.
- Review the displayed permissions.
- Edit and modify the usage rights and permissions as needed.

**\*\*Test Case 3: Content Creator Permission Management\*\***

**\*\*Test Case ID:\*\* TC-3**

**\*\*Test Case Title:\*\*** Verify that content creators can set restrictions on usage and distribution.

**\*\*Test Case Description:\*\*** This test case verifies that content creators can establish restrictions on the usage and distribution of their resources.

**\*\*Test Data:\*\*** Custom usage limitations

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

- Upload a resource as a content creator.
- Select "Set Usage Restrictions."
- Define specific restrictions on access and distribution.

**\*\*Test Case 4: Content Licensing Transparency\*\***

**\*\*Test Case ID:\*\* TC-4**



**\*\*Test Case Title:\*\*** Verify that instructors and learners are informed of content licensing terms.

**\*\*Test Case Description:\*\*** This test case verifies the transparency of content licensing terms for both instructors and learners.

**\*\*Test Data:\*\*** Licensing agreements for uploaded resources

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

- Access a resource with assigned licenses.
- Review the licensing terms displayed alongside the resource.

**\*\*Test Case 5: Licensing Expiration and Renewal Reminders\*\***

**\*\*Test Case ID:\*\*** TC-5

**\*\*Test Case Title:\*\*** Verify that notifications are sent for license expiration or renewal.

**\*\*Test Case Description:\*\*** This test case verifies the platform's ability to send timely notifications regarding license expiration or renewal.

**\*\*Test Data:\*\*** Sample license agreements with expiration dates

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

- Upload a resource with a set expiration date.
- Receive notification reminders leading up to expiration.
- Verify renewal options upon expiration.

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**Data - 70**

**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:**

## Test Cases for Content Versioning Feature

**\*\*Test Case 1:\*\*** Verify that instructors can create and save multiple versions of content.

**\*\*Test Case ID:\*\*** CV-1

**\*\*Test Case Title:\*\*** Create and save multiple course versions

**\*\*Test Case Description:\*\*** This test verifies that instructors can create multiple versions of course materials and save them with different versions.

**\*\*Test Data:\*\*** Course name, version number, content changes

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

- Log in as an instructor.
- Navigate to the course creation page.
- Create a new course with multiple content versions.
- Save and verify that different versions are created in the version history.

**\*\*Test Case 2:\*\*** Verify that the version history is maintained and accessible.

**\*\*Test Case ID:\*\*** CV-2

**\*\*Test Case Title:\*\*** View version history of a course

**\*\*Test Case Description:\*\*** This test verifies that the platform maintains a complete and accessible version history for courses.

**\*\*Test Data:\*\*** Existing course with multiple versions

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

- Select a course with multiple versions.
- Navigate to the version history section.
- Verify that all created versions are listed.
- Check that each version displays its details and changes made.

**\*\*Test Case 3:\*\*** Verify that instructors can compare different versions of content.

**\*\*Test Case ID:\*\*** CV-3

**\*\*Test Case Title:\*\*** Compare versions of course materials

**\*\*Test Case Description:\*\*** This test verifies that instructors can easily compare different versions of course

materials side-by-side.

**\*\*Test Data:\*\*** Two different versions of a course

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

- Choose two different versions of a course.
- Click the "Compare Versions" button.
- Verify that the comparison interface shows the changes between the versions.

**\*\*Test Case 4:\*\*** Verify that previous versions can be restored if needed.

**\*\*Test Case ID:\*\*** CV-4

**\*\*Test Case Title:\*\*** Restore previous versions of content

**\*\*Test Case Description:\*\*** This test verifies that instructors can easily restore previous versions of course materials if needed.

**\*\*Test Data:\*\*** Existing course with multiple versions

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

- Select a course with multiple versions.
- Choose a previous version.
- Click the "Restore Version" button.
- Verify that the course is reverted to the selected version.

**\*\*Test Case 5:\*\*** Verify that notifications are sent for significant content updates.

**\*\*Test Case ID:\*\*** CV-5

**\*\*Test Case Title:\*\*** Receive notifications for content updates

**\*\*Test Case Description:\*\*** This test verifies that instructors receive notifications when significant changes

are made to their course materials.

**\*\*Test Data:\*\*** Existing course with subscribed instructors

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

- Configure notifications for significant content updates.
- Make substantial changes to a course.
- Verify that the subscribed instructors receive notification alerts.

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## **Data - 71**

### **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

**\*\*Test Case 1:\*\*** Verify that APIs are available for key platform functionalities.

**\* \*\*Test Case ID:\*\*** API-01

**\* \*\*Test Case Title:\*\*** Verify that API endpoints for key platform functionalities are accessible.

**\* \*\*Test Case Description:\*\*** Test the availability of APIs documented in the API documentation for core functionalities like course management, user management, and content retrieval.

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

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

1. Access API documentation.
2. Select a key platform functionality.
3. Verify that API endpoint exists and returns appropriate response code.

**\* \*\*Expected Result:\*\*** API endpoint is accessible and returns relevant data.

**\*\*Test Case 2:\*\*** Verify comprehensive API documentation is provided.

**\* \*\*Test Case ID:\*\*** API-02

**\* \*\*Test Case Title:\*\*** Verify comprehensive API documentation is provided.

**\* \*\*Test Case Description:\*\*** Test the completeness and clarity of API documentation regarding structure, content, and API endpoint details.

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

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

1. Review API documentation thoroughly.
2. Verify that API documentation includes endpoint details, parameters, and response codes.
3. Check for clarity of explanations and code samples.

**\*\*Expected Result:\*\*** API documentation is clear, detailed, and covers all relevant aspects of API interaction.

**\*\*Test Case 3:\*\*** Verify secure access protocols are implemented.

**\*\*Test Case ID:\*\*** API-03

**\*\*Test Case Title:\*\*** Verify secure access protocols are implemented.

**\*\*Test Case Description:\*\*** Test the implementation of security measures like authentication, authorization, and data encryption.

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

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

1. Create a test account with limited privileges.
2. Attempt unauthorized access to API endpoints.
3. Verify that authentication is required and access is denied for unauthorized users.

**\*\*Expected Result:\*\*** API access is secure and limited to authorized users.

**\*\*Test Case 4:\*\*** Verify third-party applications can authenticate and access APIs.

**\*\*Test Case ID:\*\*** API-04

**\*\*Test Case Title:\*\*** Verify third-party applications can access APIs.

**\*\*Test Case Description:\*\*** Test the ability of third-party applications to securely authenticate and access

platform APIs using provided credentials and tokens.

\* \*\*Test Data:\*\* API credentials and access token

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

- 1. Generate API credentials and access token.
- 2. Develop a third-party application that interacts with API endpoints.
- 3. Test authentication process and access to API functionalities.

\* \*\*Expected Result:\*\* Third-party applications can securely access and interact with platform APIs.

\*\*Test Case 5:\*\* Verify rate limiting and monitoring features are in place.

\* \*\*Test Case ID:\*\* API-05

\* \*\*Test Case Title:\*\* Verify rate limiting and monitoring features are in place.

\* \*\*Test Case Description:\*\* Test the functionality of rate limiting and monitoring API usage to prevent abuse and ensure performance.

\* \*\*Test Data:\*\* API request volume and rate limit thresholds

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

- 1. Generate sustained API requests exceeding rate limit.
- 2. Monitor API performance metrics.
- 3. Verify that rate limiting is activated and throttles API requests appropriately.

\* \*\*Expected Result:\*\* Rate limiting and monitoring features effectively mitigate request volume and maintain platform performance.



## 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

**\*\*Test Case Creation Template:\*\***

- **\*\*Test Case ID:\*\*** e.g., DA-1
- **\*\*Test Case Title:\*\*** Verify that data visualization tools are available for analysis
- **\*\*Test Case Description:\*\*** This test case verifies the functionality of data visualization tools by checking

their availability, accessibility, and usability.

- **Test Suite:** Data Analytics & Insights

- **Test Priority:** High

**Test Cases:**

**1. Verify that data visualization tools are available for analysis**

**Test Data:** Various datasets associated with learner performance

**Test Steps:**

- Login to the platform as an administrator.
- Navigate to the Data Analytics section.
- Confirm the presence and accessibility of different data visualization tools.
- Test the usability and effectiveness of the tools.

**Expected Result:** Data visualization tools are accessible and functional.

**2. Verify that reports can be generated for learner performance metrics**

**Test Data:** Specific learner IDs or groups

**Test Steps:**

- Select the desired metrics for report generation.
- Choose a date range for the report.
- Generate the report.
- Verify the completeness and accuracy of the generated report.

**Expected Result:** Reports are generated accurately and contain relevant learner performance metrics.

**\*\*3. Verify that real-time analytics provide insights into engagement and outcomes\*\***

**\* \*\*Test Data:\*\*** Data from recent learner activities

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

- Perform various activities on the platform (e.g., completing quizzes, discussions, submitting assignments).
- Monitor the real-time analytics dashboard.
- Verify that the analytics accurately reflect the engagement and outcome of these activities.

**\* \*\*Expected Result:\*\*** Real-time analytics provide actionable insights into learner engagement and outcomes.

**\*\*4. Verify that data can be exported for further analysis\*\***

**\* \*\*Test Data:\*\*** Dataset of interest

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

- Select the desired dataset from the Data Analytics section.
- Export the dataset in a compatible format.
- Verify the completeness and integrity of the exported data.

**\* \*\*Expected Result:\*\*** Data can be exported for further analysis in external tools.

**\*\*5. Verify that notifications are sent for significant data trends or anomalies\*\***

**\* \*\*Test Data:\*\*** Dataset with anomalies or trends

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

- Load the dataset into the platform.
- Monitor the data analytics dashboard for notifications.
- Verify that notifications are sent appropriately for significant data trends or anomalies.

**\*\*Expected Result:\*\*** Notifications are sent in a timely manner for significant data trends or anomalies.

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## **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:**

### **## Online Learning Platform - User Roles and Permissions Test Cases**

**\*\*Test Case 1:\*\*** Verify that administrators can create and assign user roles.

**\*\*Test Case ID:\*\*** ORLP-1

**\*\*Test Case Description:\*\*** This test case verifies that administrators can create and assign different user roles with appropriate permissions.

**\*\*Test Data:\*\*** Admin account credentials, user role name, assigned permissions

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

- Login as an administrator.
- Navigate to User Roles & Permissions settings.
- Create a new user role.
- Assign desired permissions.
- Assign the role to a test user.

**\*\*Expected Result:\*\*** The assigned user receives the designated role and associated permissions.

**\*\*Test Case 2:\*\*** Verify that permissions are customizable for each role.

**\*\*Test Case ID:\*\*** ORLP-2

**\*\*Test Case Description:\*\*** This test case verifies that permissions can be customized and tailored to specific user roles.

**\*\*Test Data:\*\*** Existing user role, modified permissions

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

- Select an existing user role.
- Modify the assigned permissions.
- Verify that only the selected permissions are associated with the role.

**\*\*Expected Result:\*\*** Permission modifications are saved and reflected in user roles.

**\*\*Test Case 3:\*\*** Verify that users are restricted to functionalities based on their roles.

**\*\*Test Case ID:\*\*** ORLP-3

**\*\*Test Case Description:\*\*** This test case verifies that users are granted access only to functionalities aligned with their assigned roles.

**\*\*Test Data:\*\*** Different user roles with defined permissions

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

- Login as a user with a specific role.
- Access different platform features.
- Verify that access is granted only to permitted features.

**\*\*Expected Result:\*\*** Access is denied to functionalities outside the assigned role's permissions.

**\*\*Test Case 4:\*\*** Verify that changes to roles and permissions are logged.

**\*\*Test Case ID:\*\*** ORLP-4

**\*\*Test Case Description:\*\*** This test case verifies that changes made to user roles and permissions are logged for accountability and tracking.

**\*\*Test Data:\*\*** Existing user role, modified permissions

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

- Make changes to a user role or permission set.
- Verify that the changes and associated timestamps are logged in the system.

**\*\*Expected Result:\*\*** Change log records are created and readily accessible.

**\*\*Test Case 5:\*\*** Verify that users are notified of their assigned roles and permissions.

**\*\*Test Case ID:\*\*** ORLP-5

**\*\*Test Case Description:\*\*** This test case verifies that newly assigned roles and permissions are communicated effectively to users.

**\*\*Test Data:\*\*** User account associated with the assigned role

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

- Assign a new role with permissions to a test user.
- Verify that the user receives a notification outlining their assigned role and associated permissions.

**\*\*Expected Result:\*\*** Users receive relevant information about their assigned roles and associated permissions.

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## **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:

### ## Online Learning Platform - User Feedback and Rating System Test Cases

**\*\*Test Case 1:\*\*** Verify that learners can rate courses and instructors on a scale of 1-5.

**\* \*\*Test Case Description:\*\*** Tests the core functionality of the rating system for both courses and instructors.

**\* \*\*Preconditions:\*\*** User is logged in, course/instructor page is open.

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

- Select a course/instructor.
- Click on the rating star icons.
- Verify that the selected rating is reflected on the page.

**\* \*\*Expected Result:\*\*** Ratings are successfully saved and displayed for the selected course/instructor.

**\*\*Test Case 2:\*\*** Verify that feedback forms are available for detailed comments.

**\* \*\*Test Case Description:\*\*** Tests the availability and functionality of the feedback form.

**\* \*\*Preconditions:\*\*** User has accessed a course/instructor page.

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

- Click on the "Provide Feedback" button.
- Verify that a feedback form appears with fields for comments and ratings.

**\* \*\*Expected Result:\*\*** The feedback form is accessible and allows users to submit detailed comments.

**\*\*Test Case 3:\*\*** Verify that instructors can view and respond to feedback.

**\* \*\*Test Case Description:\*\*** Tests the instructor's ability to access and respond to feedback.

**\* \*\*Preconditions:\*\*** User is logged in as an instructor.

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

- Navigate to the "Feedback" section.
- Select a piece of feedback.
- Verify that the instructor can view the feedback and respond to it.

**\* \*\*Expected Result:\*\*** Instructors can effectively interact with and address user feedback.

**\*\*Test Case 4:\*\*** Verify that aggregated ratings are displayed publicly.

**\* \*\*Test Case Description:\*\*** Tests the display of aggregated ratings for courses and instructors.

**\* \*\*Preconditions:\*\*** Users have submitted ratings.

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

- Navigate to the course/instructor listing page.
- Verify that the page displays the aggregated ratings for each course/instructor.

**\* \*\*Expected Result:\*\*** Aggregated ratings are clearly presented and accessible to users.

**\*\*Test Case 5:\*\*** Verify that anonymous feedback options are available.

**\* \*\*Test Case Description:\*\*** Tests the availability of anonymous feedback submission.

**\* \*\*Preconditions:\*\*** User is on a course/instructor page.

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

- Click on the "Provide Feedback" button.
- Select the "Submit anonymously" option.
- Verify that the feedback is submitted without requiring user login.

**\* \*\*Expected Result:\*\*** Users can provide feedback without revealing their identities.

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**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:**

### **## Online Learning Platform - Social Media Integration Test Cases**

**\*\*Test Case 1:\*\*** Verify that learners can connect their social media accounts to the platform.

**\*\*Test Case ID:\*\*** SM-01

**\*\*Test Case Title:\*\*** Successful Social Media Connection

**\*\*Test Case Description:\*\*** Test that learners can connect their valid social media accounts to the platform and receive a confirmation message.

**\*\*Test Data:\*\*** Valid email address, password for chosen social media platform.

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

1. Navigate to the Social Media Integration settings.
2. Enter login credentials for chosen social media platform.
3. Verify successful connection with a confirmation message.

**\*\*Expected Result:\*\*** Social media account successfully connected to the platform.

**\*\*Test Case 2:\*\*** Verify that achievements and course completions can be shared on social media.

**\*\*Test Case ID:\*\*** SM-02

**\*\*Test Case Title:\*\*** Sharing Achievements on Social Media

**\*\*Test Case Description:\*\*** Test that learners can share their achievements and course completions on social media platforms.

**\*\*Test Data:\*\*** Achieved milestones, completed courses.

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

1. Complete a course or achieve a milestone.
2. Navigate to the Social Media Integration settings.
3. Select achievements to share on social media.
4. Verify that the shared content appears on the chosen social media platform.

**\*\*Expected Result:\*\*** Shared achievements and course completions visible on social media.

**\*\*Test Case 3:\*\*** Verify privacy settings control the visibility of shared content.

**\*\*Test Case ID:\*\*** SM-03

**\*\*Test Case Title:\*\*** Privacy Settings Control Visibility

**\*\*Test Case Description:\*\*** Test that learners can control the visibility of their shared content on social media through privacy settings.

**\*\*Test Data:\*\*** Various privacy settings options.

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

1. Navigate to the Social Media Integration settings.
2. Adjust privacy settings for shared content.
3. Share content on social media.
4. Verify that shared content is accessible only to users with the appropriate permissions.

**\*\*Expected Result:\*\*** Privacy settings effectively control the visibility of shared content.

**\*\*Test Case 4:\*\*** Verify that instructors can promote courses and updates through social media.

**\*\*Test Case ID:\*\*** SM-04

**\*\*Test Case Title:\*\*** Instructor Content Sharing

**\*\*Test Case Description:\*\*** Test that instructors can share course updates and promotional materials on social media.

**\*\*Test Data:\*\*** Course materials, promotional content.

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

1. Instructor logs into the platform.
2. Navigate to the Social Media Integration settings.
3. Select option to share course materials and updates.
4. Verify that shared content appears on the chosen social media platform.

**\*\*Expected Result:\*\*** Instructor-generated content successfully shared on social media.

**\*\*Test Case 5:\*\*** Verify that analytics track the reach and engagement of shared content.

**\*\*Test Case ID:\*\*** SM-05

**\*\*Test Case Title:\*\*** Social Media Analytics

**\*\*Test Case Description:\*\*** Test that the platform tracks and displays analytics on the reach and engagement of shared content.

**\*\*Test Data:\*\*** Shared content on social media.

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

1. Share content on social media through the platform.
2. Navigate to the Social Media Analytics dashboard.
3. Verify that analytics data is displayed for the shared content.

**\*\*Expected Result:\*\*** Detailed analytics are available for shared content's reach and engagement.

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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 -**

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

**\*\*Test Case 1:\*\*** Verify that the app correctly records distance, duration, pace, and calories burned during a running activity.

**\*\*Test Case Description:\*\*** This test case ensures that the app accurately captures and stores data related to

distance, duration, pace, and calories burned during a running activity.

**\*\*Test Data:\*\*** Distance: 5km, Duration: 30min, Pace: 5.5 km/h, Calories Burned: 300

**\*\*Precondition:\*\*** User has enabled activity tracking and selected "Running" as the activity type.

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

- Start tracking activity.
- Run for 30 minutes.
- Confirm that distance, duration, pace, and calories burned are recorded on the app.

**\*\*Expected Result:\*\*** Data is accurately recorded and displayed for the completed activity.

**\*\*Test Case 2:\*\*** Verify that users can view detailed summaries of tracked activities.

**\*\*Test Case Description:\*\*** This test case ensures that the app provides users with comprehensive summaries of their tracked activities.

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

**\*\*Precondition:\*\*** User has tracked at least one activity.

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

- Navigate to the "Activity Summary" section.
- Verify that a list of past activities is displayed with relevant data.
- Select an activity and review detailed information.



**\*\*Expected Result:\*\*** Detailed summary of the selected activity is displayed, showing distance, duration, pace, calories burned, and other relevant data.

**\*\*Test Case 3:\*\*** Verify that historical activity data is stored and accessible for analysis.

**\*\*Test Case Description:\*\*** This test case ensures that the app stores historical data for future analysis and tracking progress.

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

**\*\*Precondition:\*\*** User has tracked multiple activities.

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

- Navigate to the "Historical Data" section.
- Verify that past activities are stored and can be filtered by date range.
- Download or export historical data for further analysis.

**\*\*Expected Result:\*\*** Historical activity data is stored securely and can be easily accessed for progress tracking and analysis.

**\*\*Test Case 4:\*\*** Verify that the activity tracking feature can be paused and resumed.

**\*\*Test Case Description:\*\*** This test case ensures that the app allows users to pause and resume tracking activities without losing data.

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

**\*\*Precondition:\*\*** User has started tracking an activity.

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

- Pause the activity tracking.
- Resume the activity tracking.
- Verify that the paused activity data is saved and resumed correctly.

**\*\*Expected Result:\*\*** Activity tracking resumes from the point where it was paused without data loss.

**\*\*Test Case 5:\*\*** Verify that the app sends notifications for reaching certain milestones.

**\*\*Test Case Description:\*\*** This test case ensures that the app provides notification when specific milestones are reached during an activity.

**\*\*Test Data:\*\*** Milestone distance: 5km

**\*\*Precondition:\*\*** User has enabled notifications and set a milestone distance.

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

- Start tracking an activity.
- Continue activity until the set milestone is reached.
- Verify that a notification is received for achieving the milestone.

**\*\*Expected Result:\*\*** The app sends a notification when the specified milestone is reached during the activity.

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**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 1:\*\*** Verify that GPS tracking accurately records route data.

**\*\*Test Case ID:\*\*** FT-GPS-01

**\*\*Test Case Title:\*\*** Verify GPS tracking records route data.

**\*\*Test Case Description:\*\*** This test case verifies that GPS tracking accurately captures and stores route data, including location coordinates, timestamps, and associated metadata.

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

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

- Launch the app and enable GPS tracking.
- Perform outdoor activity with GPS enabled.
- Verify that the recorded route data aligns with the actual path traveled.
- Check the accuracy of timestamps and location coordinates.

**\*\*Expected Result:\*\*** Route data is recorded and stored correctly.

**\*\*Test Case 2:\*\*** Verify that users can view detailed maps and elevation profiles.

**\*\*Test Case ID:\*\*** FT-GPS-02

**\*\*Test Case Title:\*\*** Verify detailed maps and elevation profiles display correctly.

**\*\*Test Case Description:\*\*** This test case verifies that the app displays accurate and detailed maps and elevation profiles of the tracked route.

**\*\*Test Data:\*\*** Data from Test Case 1

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

- Review the displayed route on the map.
- Check for accuracy of map markers and location data.
- Examine the elevation profile and its correlation with the actual route.

**\*\*Expected Result:\*\*** Detailed maps and elevation profiles are displayed correctly.

**\*\*Test Case 3:\*\*** Verify performance data includes location-based metrics.

**\*\*Test Case ID:\*\*** FT-GPS-03

**\*\*Test Case Title:\*\*** Verify performance data includes location-based metrics.

**\*\*Test Case Description:\*\*** This test case verifies that performance data includes relevant location-based metrics such as distance, speed, and pace.

**\*\*Test Data:\*\*** Data from Test Case 1

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

- Review the performance metrics recorded for the activity.
- Verify that distance, speed, and pace are accurately calculated and displayed.

**\*\*Expected Result:\*\*** Performance data includes location-based metrics.

**\*\*Test Case 4:\*\*** Verify that routes can be saved and revisited.

**\*\*Test Case ID:\*\*** FT-GPS-04

**\*\*Test Case Title:\*\*** Verify route save and revisit functions.

**\*\*Test Case Description:\*\*** This test case verifies that users can save and revisit previously tracked routes within the app.

**\*\*Test Data:\*\*** Data from Test Case 1

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

- Save the current route during an activity.
- Verify that the route is saved in the app's history.
- Revisit the saved route and ensure it aligns with the original track.

**\*\*Expected Result:\*\*** Routes can be saved and revisited seamlessly.

**\*\*Test Case 5:\*\*** Verify that notifications are provided for deviations from planned routes.

**\*\*Test Case ID:\*\*** FT-GPS-05

**\*\*Test Case Title:\*\*** Verify notification for route deviation.

**\*\*Test Case Description:\*\*** This test case verifies that the app sends alerts or notifications when the user deviates from their planned route during an activity.

**\*\*Test Data:\*\*** Data from Test Case 1

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

- Define a planned route within the app.
- Deliberately alter the planned route during activity.
- Check for notification alerts indicating the deviation.

**\*\*Expected Result:\*\*** Notifications are provided for route deviations.

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**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 1\*\*

\*\*Test Case ID:\*\* FIT-HR-001

\*\*Test Case Title:\*\* Verify that heart rate data is recorded in real-time.

\*\*Test Case Description:\*\* This test case ensures that the app collects heart rate data continuously during exercise and updates the display in real-time.

\*\*Test Data:\*\* Manual hand tracking of heart rate.

\*\*Test Steps:\*\*

- Launch the app and authorize heart rate tracking.
- Start a workout.
- Engage in physical activity and monitor heart rate displayed on the app.

- Verify that heart rate data updates consistently and accurately.

**\*\*Expected Result:\*\*** Heart rate data is recorded and displayed in real-time.

**\*\*Test Case 2\*\***

**\*\*Test Case ID:\*\*** FIT-HR-002

**\*\*Test Case Title:\*\*** Verify that users can set and monitor target heart rate zones.

**\*\*Test Case Description:\*\*** This test case assesses if users can establish specific target heart rate ranges and receive alerts when their heart rate deviates from those zones.

**\*\*Test Data:\*\*** Custom target heart rate range: 120-150 bpm.

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

- Navigate to the heart rate monitoring settings.
- Define a custom target heart rate range.
- Start a workout and monitor heart rate data.
- Observe if the app triggers alerts when heart rate goes above or below the target range.

**\*\*Expected Result:\*\*** Users can set and monitor target heart rate zones and receive alerts accordingly.

**\*\*Test Case 3\*\***

**\*\*Test Case ID:\*\*** FIT-HR-003

**\*\*Test Case Title:\*\*** Verify that historical heart rate data is stored and viewable.

**\*\*Test Case Description:\*\*** This test case ensures that the app archives and allows retrieval of historical heart rate data for tracking progress and identifying trends.

**\*\*Test Data:\*\*** Previous workout data.

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



- Complete a workout and review the recorded heart rate data.
- Access the heart rate history section.
- Verify that previous data is stored and can be viewed in a tabular or graphical format.

**\*\*Expected Result:\*\*** Historical heart rate data is stored and displayed for review.

#### **\*\*Test Case 4\*\***

**\*\*Test Case ID:\*\*** FIT-HR-004

**\*\*Test Case Title:\*\*** Verify that alerts are provided for abnormal heart rate readings.

**\*\*Test Case Description:\*\*** This test case confirms that the app generates alerts when heart rate readings deviate from expected values.

**\*\*Test Data:\*\*** Simulated abnormal heart rate data.

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

- Configure the app to receive heart rate alerts.
- Simulate abnormal heart rate readings during a workout.
- Verify that the app triggers alerts promptly and appropriately.

**\*\*Expected Result:\*\*** Alerts are provided for abnormal heart rate readings.

#### **\*\*Test Case 5\*\***

**\*\*Test Case ID:\*\*** FIT-HR-005

**\*\*Test Case Title:\*\*** Verify that data is compatible with various wearable devices.

**\*\*Test Case Description:\*\*** This test case validates that the app seamlessly integrates with different wearable devices and imports heart rate data accurately.

**\*\*Test Data:\*\*** Data from various compatible wearable devices.

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

- Connect different wearable devices to the app.
- Start a workout using a wearable device.
- Verify that the app receives and displays heart rate data from the device.

**\*\*Expected Result:\*\*** Data is compatible with various wearable devices and is displayed accurately.

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**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:

### ## Fitness Tracker App: Calorie Tracking Test Cases

**\*\*Test Case 1:\*\*** Verify that users can log daily food intake.

**\*\*Test Case ID:\*\*** FT-1

**\*\*Test Case Title:\*\*** Verify that users can log daily food intake.

**\*\*Test Case Description:\*\*** This test case verifies that users can input details about their daily food intake, including the food item, quantity, and calorie content.

**\*\*Test Suite:\*\*** Calorie Tracking

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

**\*\*Preconditions:\*\*** User has created an account and logged into the app.

**\*\*Test Data:\*\*** Various food items with different calorie values

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

- Open the "Food Log" feature.
- Enter the name of a food item.
- Input the quantity consumed.
- Select the calorie content from a predefined list.
- Submit the food log.

**\*\*Expected Result:\*\*** The food item and calorie count are saved to the user's meal history.

**\*\*Test Case 2:\*\*** Verify that the app calculates and displays total calories consumed and burned.

**\*\*Test Case ID:\*\* FT-2**

**\*\*Test Case Title:\*\*** Verify that the app calculates and displays total calories consumed and burned.

**\*\*Test Case Description:\*\*** This test case ensures that when users log food intake and physical activities, the app accurately calculates and displays their total calorie consumption and expenditure.

**\*\*Test Suite:\*\*** Calorie Tracking

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

**\*\*Preconditions:\*\*** User has logged daily food intake and engaged in physical activities.

**\*\*Test Data:\*\*** Various food items and workout activities

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

- Log food intake for different meals.
- Track different physical activities using wearable devices or app sensors.
- Review the "Calorie Summary" section.

**\*\*Expected Result:\*\*** The app displays the total calories consumed and burned, with corresponding breakdowns.

**\*\*Test Case 3:\*\*** Verify that users can set daily calorie goals and track progress.

**\*\*Test Case ID:\*\*** FT-3

**\*\*Test Case Title:\*\*** Verify that users can set daily calorie goals and track progress.

**\*\*Test Case Description:\*\*** This test case verifies that users can establish daily calorie goals and track their progress towards them.

**\*\*Test Suite:\*\*** Calorie Tracking

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

**\*\*Preconditions:\*\*** User has set a daily calorie goal.

**\*\*Test Data:\*\*** Desired calorie goal

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

- Navigate to the "Calorie Goals" section.
- Input a desired daily calorie goal.
- Track daily calorie intake and expenditure.
- Review the "Progress" section.

**\*\*Expected Result:\*\*** The app displays tracked calorie intake and expenditure against the set goal.

**\*\*Test Case 4:\*\*** Verify that food items and calorie information are searchable in the database.

**\*\*Test Case ID:\*\*** FT-4

**\*\*Test Case Title:\*\*** Verify that food items and calorie information are searchable in the database.

**\*\*Test Case Description:\*\*** This test case ensures that users can easily search for specific food items and verify their calorie information.

**\*\*Test Suite:\*\*** Calorie Tracking

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

**\*\*Preconditions:\*\*** User has logged food intake.

**\*\*Test Data:\*\*** Various food items

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

- Open the "Food Log" feature.
- Search for a specific food item.
- Verify that the item appears in the search results.

**\*\*Expected Result:\*\*** The app displays the searched food item with its calorie content.

**\*\*Test Case 5:\*\*** Verify that users receive alerts for exceeding calorie goals.

**\*\*Test Case ID:\*\*** FT-5

**\*\*Test Case Title:\*\*** Verify that users receive alerts for exceeding calorie goals.

**\*\*Test Case Description:\*\*** This test case ensures that the app sends notifications when calorie intake approaches or exceeds the daily goal.

**\*\*Test Suite:\*\*** Calorie Tracking

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

**\*\*Preconditions:\*\*** User has set a daily calorie goal.

**\*\*Test Data:\*\*** Calorie intake exceeding the set goal

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

- Track calorie intake above the daily goal.
- Review the "Notifications" section.

**\*\*Expected Result:\*\*** The app displays an alert notification reminding the user to adjust their calorie intake.

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**Data - 80**

**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:**

## Fitness Tracker App - Sleep Tracking Test Cases

**\*\*Test Case 1:\*\*** Verify that sleep data is recorded including duration and quality

**\*\*Test Case ID:\*\*** FT-Sleep-1

**\*\*Test Case Description:\*\*** This test case verifies that the app accurately records both the duration and quality of sleep based on sensor data.

**\*\*Test Suite:\*\*** Sleep Tracking

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

**\*\*Preconditions:\*\***

- User has enabled sleep tracking in the app settings.
- User has worn the wearable device/phone sensor during sleep.

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

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

1. User goes to sleep tracking page.
2. User goes to bed and allows the app to track sleep.
3. User wakes up and stops the sleep tracking.
4. App records sleep duration and quality data.

**\*\*Expected Result:\*\*** Sleep duration and quality data is displayed on the sleep tracking page.

**\*\*Severity:\*\*** Major

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

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

**\*\*Test Case 2:\*\*** Verify that users can view detailed sleep stage and pattern information

**\*\*Test Case ID:\*\*** FT-Sleep-2

**\*\*Test Case Description:\*\*** This test case verifies that the app allows users to access detailed information about their sleep stages and patterns.

**\*\*Test Suite:\*\*** Sleep Tracking



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

**\*\*Preconditions:\*\***

- Sleep data is recorded for at least one night.

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

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

1. User selects a specific night's sleep data.
2. User navigate to the "Sleep Stages" section.
3. User reviews the breakdown of sleep stages (e.g., deep sleep, light sleep, REM sleep).
4. User examines the sleep patterns over time.

**\*\*Expected Result:\*\*** Detailed sleep stage and pattern information is displayed in an easy-to-understand format.

**\*\*Severity:\*\* Medium**

**\*\*Priority:\*\* Medium**

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

**\*\*Test Case 3:\*\*** Verify that the app provides insights into sleep disturbances

**\*\*Test Case ID:\*\* FT-Sleep-3**

**\*\*Test Case Description:\*\*** This test case verifies that the app offers insights and recommendations for identifying and addressing sleep disturbances.

**\*\*Test Suite:\*\*** Sleep Tracking

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

**\*\*Preconditions:\*\***

- Sleep data is recorded for at least two nights.

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

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

1. User reviews the "Sleep Disturbances" section of the app.
2. The app identifies potential sleep disturbances based on the recorded data.
3. App suggests possible causes and recommendations for addressing these disturbances.

**\*\*Expected Result:\*\*** The app effectively identifies sleep disturbances and provides actionable recommendations.

**\*\*Severity:\*\*** Major

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

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

**\*\*Additional Test Cases:\*\***

- Verify that sleep data can be viewed in daily, weekly, and monthly summaries.
- Verify that the app integrates with other fitness and health apps to track sleep alongside other metrics.
- Verify that the app offers personalized sleep improvement plans based on individual sleep data and patterns.

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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 -**

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:

### ## Fitness Tracker App - Workout Logging Test Cases

**\*\*Test Case 1:\*\*** Verify that users can log various workout types with details.

**\*\*Test Case ID:\*\*** FIT-WORKOUT-01

**\*\*Test Case Title:\*\*** Verify that users can log various workout types with details.

**\*\*Test Case Description:\*\*** This test case verifies the functionality of logging different workout types with fields for duration, intensity, and notes.

**\*\*Test Data:\*\*** Running, Swimming, Cycling, Yoga, Circuit Training, HIIT

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

- Launch the app and navigate to the Workout Log screen.
- Select the desired workout type from the list.
- Enter the duration and intensity values.
- Add any relevant notes or comments.
- Review the workout information and confirm the entries.

**\*\*Expected Result:\*\*** The logged workout type and its details are accurately displayed in the list.

**\*\*Test Case 2:\*\*** Verify that workout logs include duration, intensity, and notes.

**\*\*Test Case ID:\*\*** FIT-WORKOUT-02

**\*\*Test Case Title:\*\*** Verify that workout logs include duration, intensity, and notes.

**\*\*Test Case Description:\*\*** This test case verifies that the logged workout records include duration, intensity levels, and any additional notes.

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

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

- Navigate to the Workout Log screen.
- Select a previously logged workout.
- Verify that the duration, intensity levels, and any notes entered during logging are displayed.

**\*\*Expected Result:\*\*** The displayed information aligns with the logged workout details.

**\*\*Test Case 3:\*\*** Verify that users can edit and delete workout entries.

**\*\*Test Case ID:\*\*** FIT-WORKOUT-03

**\*\*Test Case Title:\*\*** Verify that users can edit and delete workout entries.

**\*\*Test Case Description:\*\*** This test case verifies the ability to edit and delete previously logged workouts.

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

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

- Navigate to the Workout Log screen.
- Find and select a workout entry.
- Edit the duration, intensity, or notes.
- Confirm the edits.
- Select the same workout and choose the "Delete" option.

**\*\*Expected Result:\*\*** Edited workout details are updated, and deletion removes the workout from the list.

**\*\*Test Case 4:\*\*** Verify that data is stored and viewable for tracking progress.

**\*\*Test Case ID:\*\*** FIT-WORKOUT-04

**\*\*Test Case Title:\*\*** Verify that data is stored and viewable for tracking progress.

**\*\*Test Case Description:\*\*** This test case verifies that logged workouts are stored and can be easily viewed for progress tracking.

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

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

- Log various workouts using different types and durations.
- Navigate to the Progress screen.
- Review the summarized workout data and trends.

**\*\*Expected Result:\*\*** Stored workout data aligns with logged entries and readily visualized on the Progress screen.

**\*\*Test Case 5:\*\*** Verify that users can filter logs by date and workout type.

**\*\*Test Case ID:\*\*** FIT-WORKOUT-05

**\*\*Test Case Title:\*\*** Verify that users can filter logs by date and workout type.

**\*\*Test Case Description:\*\*** This test case verifies the functionality of filtering workout logs by date and type.

**\*\*Test Data:\*\*** Specific date range, specific workout type

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

- Navigate to the Workout Log screen.
- Select the desired date range or workout type from the filter options.
- Review the filtered logs.

**\*\*Expected Result:\*\*** The displayed logs only include the selected date range or workout type.

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**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:

## ## Fitness Tracker App: Goal Setting Test Cases

### \*\*Test Case Creation Template:\*\*

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
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| TC-1 | Verify that users can set goals for various fitness metrics | Ability to set specific goals for steps, calories, distance, heart rate, and weight. | Functional Testing | High | User is logged in, fitness tracking features are enabled | N/A | 1. Select "Set Goal" option. 2. Choose desired fitness metric. 3. Enter goal value. 4. Click "Set Goal." | Goal is saved and displayed on the user interface. | Minor | High | Functional Testing | Positive |

| TC-2 | Verify that progress tracking is available for each goal | Ability to track progress towards set goals over time. | Functional Testing | Medium | Same as TC-1 | N/A | 1. Review the progress dashboard. 2. Verify that progress is displayed for each set goal. 3. Confirm that the progress is accurate and updated regularly. | Progress data is displayed correctly and reflects actual performance. | Minor | Medium | Functional Testing | Positive |

| TC-3 | Verify that motivational feedback and reminders are provided | Receive encouraging messages and reminders to maintain motivation. | Functional Testing | High | Same as TC-1 | N/A | 1. Set a fitness goal. 2. Review the motivational messages. 3. Confirm that reminders are received on schedule. | Positive feedback and reminders support user engagement. | Minor | High | Functional Testing | Positive |

| TC-4 | Verify that goals can be adjusted or updated as needed | Ability to modify existing goals without creating new ones. | Functional Testing | Medium | Same as TC-1 | N/A | 1. Select the "Edit Goal" option. 2. Make necessary changes to the goal value or target date. 3. Click "Update Goal." | Goal parameters can be easily adjusted. | Minor | Medium | Functional Testing | Positive |

| TC-5 | Verify that the app provides a summary of goal attainment | Generate a report summarizing goal



accomplishment. | Functional Testing | Low | Same as TC-1 | N/A | 1. Review the "Goal Summary" section. 2. Confirm that all completed goals are listed. 3. Verify that progress towards uncompleted goals is displayed. | Summary report provides clear overview of goal attainment. | Minor | Low | Functional Testing | Positive |

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**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

#### \*\*Test Case 1: Selecting Workout Plan Based on Fitness Level\*\*

\* \*\*Test Case ID:\*\* FT-WP-01

\* \*\*Test Case Title:\*\* Verify that users can select workout plans based on their fitness levels.

\* \*\*Test Case Description:\*\* Test that users can successfully filter and choose workout plans according to their self-assessed fitness levels, including Beginners, Intermediate, and Advanced.

\* \*\*Test Data:\*\* Fitness level selection from the available options.

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

- Login to the app.
- Navigate to the Workout Plans section.
- Select the desired fitness level from the filter criteria.
- Verify that only relevant workout plans are displayed.

\* \*\*Expected Result:\*\* The app displays a list of workout plans appropriate for the selected fitness level.

#### \*\*Test Case 2: Validation of Workout Plan Details\*\*

\* \*\*Test Case ID:\*\* FT-WP-02

\* \*\*Test Case Title:\*\* Verify that workout plans include detailed exercise routines and schedules.

\* \*\*Test Case Description:\*\* Test that the selected workout plan provides a comprehensive schedule with specific exercises and sets/reps.

\* \*\*Test Data:\*\* Specific workout plan selection.

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

- Choose a workout plan from the list.

- Review the detailed schedule of the plan.
- Verify that the plan includes exercise names, sets, reps, and rest periods.

\* \*\*Expected Result:\*\* The displayed workout plan includes detailed exercise information and schedule.

### \*\*Test Case 3: Tracking Adherence to the Plan\*\*

\* \*\*Test Case ID:\*\* FT-WP-03

\* \*\*Test Case Title:\*\* Verify that the app tracks adherence and progress within the plan.

\* \*\*Test Case Description:\*\* Test that the app tracks completed workouts against the plan schedule and displays progress metrics.

\* \*\*Test Data:\*\* Specific workout plan selection.

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

- Select a workout plan.
- Complete the assigned workouts in the plan.
- Monitor the progress tracker within the plan section.

\* \*\*Expected Result:\*\* The app accurately tracks completed workouts and displays progress metrics.

### \*\*Test Case 4: Notification and Reminder Reminders\*\*

\* \*\*Test Case ID:\*\* FT-WP-04

\* \*\*Test Case Title:\*\* Verify that the app provides notifications and reminders for planned workouts.

\* \*\*Test Case Description:\*\* Test that the app sends timely notifications and reminders for scheduled workouts.

\* \*\*Test Data:\*\* Specific workout plan selection.

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

- Select a workout plan.
- Confirm the scheduled workout time.

- Verify that the app sends reminders before the scheduled time.

\* \*\*Expected Result:\*\* The app delivers timely notifications and reminders for scheduled workouts.

**\*\*Test Case 5: Plan Customization and Preferences\*\***

\* \*\*Test Case ID:\*\* FT-WP-05

\* \*\*Test Case Title:\*\* Verify that users can adjust workout plans based on progress and preferences.

\* \*\*Test Case Description:\*\* Test that users can modify their selected plan, including changing exercises, adding rest days, or adjusting set/rep counts.

\* \*\*Test Data:\*\* Specific workout plan selection.

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

- Select a workout plan.
- Access the plan settings and modify preferences.
- Verify that changes are reflected in the workout schedule.

\* \*\*Expected Result:\*\* The app allows users to personalize their workout plans to their preferences.

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**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 1:\*\*** Verify that users can join and participate in community groups.

**\*\*Test Case ID:\*\*** FC-1

**\*\*Test Case Description:\*\*** Test the registration and participation process for community groups.

**\*\*Test Data:\*\*** User credentials, community group name

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

- Login to the app with valid user credentials.
- Navigate to the Community tab and browse available groups.
- Join a chosen community group and confirm membership.
- Participate in discussions and engage with group members.

**\*\*Expected Result:\*\*** User successfully joins the group and interacts with other members.

**\*\*Test Case 2:\*\*** Verify that users can share progress updates and achievements.

**\*\*Test Case ID:\*\*** FC-2

**\*\*Test Case Description:\*\*** Test the functionality for sharing workout data and achievements in the community.

**\*\*Test Data:\*\*** Sample workout data, achievement milestones

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

- Perform a workout and log it in the app.
- Access the community tab and navigate to the "Share Progress" section.
- Choose relevant data from the previous workout and submit the update.
- Verify that the shared information is visible to group members.

**\*\*Expected Result:\*\*** Shared progress data is visible to the user and community members.

**\*\*Test Case 3:\*\*** Verify that the app facilitates participation in community challenges.

**\*\*Test Case ID:\*\*** FC-3

**\*\*Test Case Description:\*\*** Test the creation and participation in community challenges.

**\*\*Test Data:\*\*** Challenge parameters, user fitness goals

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

- Navigate to the Community tab and access the "Challenges" section.
- Select a current challenge and review its rules and goals.
- Join the challenge and track individual performance.
- Submit achievements and earn points.

**\*\*Expected Result:\*\*** User successfully joins the challenge and tracks their performance.

**\*\*Test Case 4:\*\*** Verify that users can offer and receive support and encouragement.

**\*\*Test Case ID:\*\*** FC-4

**\*\*Test Case Description:\*\*** Test the functionality for sending and receiving private messages within the community.

**\*\*Test Data:\*\*** Sample supportive messages

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

- Send private messages to other group members.
- Respond to incoming private messages.
- Like and comment on other users' posts.

**\*\*Expected Result:\*\*** Users can effectively communicate and support each other.

**\*\*Test Case 5:\*\*** Verify that community activity and engagement are tracked.

**\*\*Test Case ID:\*\*** FC-5

**\*\*Test Case Description:\*\*** Test the tracking and display of community engagement metrics.

**\*\*Test Data:\*\*** Sample workout data, achievement milestones

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

- Join a community group and actively participate in discussions.
- Track the number of posts, replies, and likes.
- Review community engagement reports.

**\*\*Expected Result:\*\*** The app tracks and displays community activity appropriately.

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**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 - Integration with Wearable Devices Test Cases

**\*\*Test Case 1:\*\*** Verify that the app supports integration with multiple wearable devices.

**\*\*Test Case ID:\*\*** FIT-INT-001

**\*\*Test Case Description:\*\*** This test case verifies that the app can successfully connect and authenticate with multiple popular wearable devices.

**\*\*Test Data:\*\*** Various brand-name wearables (e.g. Fitbit, Apple Watch, Samsung Galaxy Watch)



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

- Launch the app and the wearable device.
- Select "Connect Device" in the app.
- Choose the desired wearable from the list.
- Verify successful connection and authentication.

**\*\*Expected Result:\*\*** The app successfully connects to the wearable device and authenticates the user.

**\*\*Severity:\*\*** Major

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

**\*\*Test Case 2:\*\*** Verify that users can sync activity data from their wearables.

**\*\*Test Case ID:\*\*** FIT-INT-002

**\*\*Test Case Description:\*\*** This test case verifies that users can seamlessly transfer activity data from their wearables to the app.

**\*\*Test Data:\*\*** Actively tracked activity data from a connected wearable device

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

- Ensure data synchronization is enabled.
- Start tracking activity on the wearable device.
- Open the Fitness Tracker App and connect to the wearable.

- Verify that the app automatically syncs the activity data.

**\*\*Expected Result:\*\*** The app successfully synchronizes activity data from the wearable device to the app.

**\*\*Severity:\*\*** High

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

**\*\*Test Case 3:\*\*** Verify that the app provides real-time data updates from wearables.

**\*\*Test Case ID:\*\*** FIT-INT-003

**\*\*Test Case Description:\*\*** This test case verifies that the app receives and displays real-time data updates from connected wearables.

**\*\*Test Data:\*\*** Active tracking of heart rate, steps, calories burned, and distance on the wearable device.

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

- Connect the app to a wearable device.
- Perform physical activity while tracking data on the wearable.
- Monitor the app and ensure real-time updates of the tracked metrics.

**\*\*Expected Result:\*\*** The app displays accurate and timely updates of the tracked data from the wearable device.

**\*\*Severity:\*\*** Medium

**\*\*Priority:\*\* Medium**

**\*\*Test Case 4:\*\* Verify that wearable data includes steps, heart rate, and calories burned.**

**\*\*Test Case ID:\*\* FIT-INT-004**

**\*\*Test Case Description:\*\* This test case verifies that the synchronized data includes steps, heart rate, and calories burned.**

**\*\*Test Data:\*\* Data collected from a connected wearable device during physical activity.**

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

- Connect the app to a wearable device.
- Perform physical activity and track data.
- Review the synced data in the app and confirm the presence of steps, heart rate, and calories burned.

**\*\*Expected Result:\*\* The synchronized data includes accurate values for steps, heart rate, and calories burned.**

**\*\*Severity:\*\* Medium**

**\*\*Priority:\*\* Medium**

**\*\*Test Case 5:\*\* Verify that users can troubleshoot connectivity issues with wearables.**

**\*\*Test Case ID:\*\* FIT-INT-005**

**\*\*Test Case Description:\*\*** This test case verifies that the app offers helpful guidance to troubleshoot connectivity issues with wearable devices.

**\*\*Test Data:\*\*** Connectivity issue scenarios (e.g. Bluetooth connection issues, authentication failures)

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

- Simulate a connectivity issue with a wearable device.
- Navigate to the app's connectivity settings.
- Follow the troubleshooting guide to resolve the issue.

**\*\*Expected Result:\*\*** The app provides clear and actionable steps to resolve the connectivity issue with the wearable device.

**\*\*Severity:\*\* Medium**

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

**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:**

## Fitness Tracker App - Water Intake Tracking Test Cases

**\*\*Test Case 1:\*\*** Verify that users can log their daily water intake.

\* **\*\*Test Case Description:\*\*** Tests the core functionality of logging water intake amounts.

\* **\*\*Test Data:\*\*** 1L, 1.5L, 2L

\* **\*\*Expected Result:\*\*** Water intake is recorded and displayed correctly in the app.

**\*\*Test Case 2:\*\*** Verify that the app calculates total water consumption for the day.

\* \*\*Test Case Description:\*\* Tests the accuracy of cumulative daily water intake calculation.

\* \*\*Test Data:\*\* Multiple water intake entries throughout the day

\* \*\*Expected Result:\*\* The app displays the total water consumption for the day accurately.

\*\*Test Case 3:\*\* Verify that users can set daily hydration goals.

\* \*\*Test Case Description:\*\* Tests goal setting functionality for maintaining optimal hydration.

\* \*\*Test Data:\*\* Various target water volumes (1L, 2L, 3L)

\* \*\*Expected Result:\*\* Users can set and modify their daily hydration goals.

\*\*Test Case 4:\*\* Verify that reminders are provided to encourage regular water intake.

\* \*\*Test Case Description:\*\* Tests the app's reminder system for hydration.

\* \*\*Test Data:\*\* Different time intervals for reminders

\* \*\*Expected Result:\*\* The app sends timely reminders to encourage users to drink water.

\*\*Test Case 5:\*\* Verify that users can view hydration progress and trends.

\* \*\*Test Case Description:\*\* Tests the app's tracking and visualization of hydration data.

\* \*\*Test Data:\*\* Historical water intake data

\* \*\*Expected Result:\*\* The app displays hydration progress graphs and trends over time.

**\*\*Additional Test Cases:\*\***

- \* Verify handling of invalid or incomplete water intake entries.
- \* Verify proper functioning of alarms when hydration goals are not met.
- \* Verify correct handling of data synchronization with connected devices or wearables.
- \* Verify accessibility of the water intake tracking feature for users with visual or motor impairments.
- \* Verify test cases cover various scenarios with different device types and operating systems.

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**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:

### ## Fitness Tracker App - Nutrition Tracking Test Cases

#### \*\*Test Case 1\*\*

\* \*\*Test Case ID:\*\* NUT-1

\* \*\*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 to the nutrition tracker, including entering the food item, quantity, and time of consumption.

\* \*\*Test Suite:\*\* Nutrition Tracking

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

\* \*\*Preconditions:\*\* User has logged into the app, has access to the nutrition tracker feature.

\* \*\*Test Data:\*\* Sample meal and snack data

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

- Navigate to the Nutrition Tracker section
- Add a new meal/snack
- Enter the food name, quantity, and time of consumption
- Verify that the information is saved and displayed in the food log

\* \*\*Expected Result:\*\* The meal/snack is successfully logged and displayed in the food log.

#### \*\*Test Case 2\*\*



\* \*\*Test Case ID:\*\* NUT-2

\* \*\*Test Case Title:\*\* Verify that the app calculates macronutrient intake (carbs, fats, proteins)

\* \*\*Test Case Description:\*\* This test case verifies the accuracy of macronutrient calculation for entered meals and snacks.

\* \*\*Test Suite:\*\* Nutrition Tracking

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

\* \*\*Preconditions:\*\* User has logged at least one meal with macronutrient content.

\* \*\*Test Data:\*\* Sample meals with known macronutrient content

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

- Log multiple meals with different macronutrient content
- Review the calculated macronutrient intake for each meal

\* \*\*Expected Result:\*\* The app correctly calculates and displays the total macronutrient intake for the logged meals.

\*\*Test Case 3\*\*

\* \*\*Test Case ID:\*\* NUT-3

\* \*\*Test Case Title:\*\* Verify that users can set nutritional goals and track progress

\* \*\*Test Case Description:\*\* This test case verifies the functionality of setting nutritional goals and tracking progress over time.

\* \*\*Test Suite:\*\* Nutrition Tracking

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

\* \*\*Preconditions:\*\* User has set a nutritional goal and assigned start date.

\* \*\*Test Data:\*\* Sample nutritional goal data

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

- Set a specific nutritional goal (e.g., calorie intake, macro ratio)

- Track daily intake and progress towards the goal
- Review historical data and progress toward the goal

\* \*\*Expected Result:\*\* The app tracks and displays progress towards the set nutritional goal.

#### \*\*Test Case 4\*\*

\* \*\*Test Case ID:\*\* NUT-4

\* \*\*Test Case Title:\*\* Verify that the app provides nutritional information and suggestions

\* \*\*Test Case Description:\*\* This test case verifies the accessibility of relevant nutritional information and suggestions within the app.

\* \*\*Test Suite:\*\* Nutrition Tracking

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

\* \*\*Preconditions:\*\* User has accessed the nutritional tracking feature.

\* \*\*Test Data:\*\* Sample food items with varying nutritional values

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

- Browse available food items in the database
- Review provided nutritional information and recommendations

\* \*\*Expected Result:\*\* The app provides accurate and relevant nutritional information and suggestions for meal selections.

#### \*\*Test Case 5\*\*

\* \*\*Test Case ID:\*\* NUT-5

\* \*\*Test Case Title:\*\* Verify that users can view their nutritional history and trends

\* \*\*Test Case Description:\*\* This test case verifies the functionality of reviewing historical nutritional data

and identifying trends over time.

\* \*\*Test Suite:\*\* Nutrition Tracking

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

\* \*\*Preconditions:\*\* User has logged multiple meals and tracked nutritional intake.

\* \*\*Test Data:\*\* Historical food log data

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

- Access the Nutritional History section
- Review historical food intake data
- Analyze trends and patterns in nutritional consumption

\* \*\*Expected Result:\*\* The app displays historical data and visualizations of nutritional trends.

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**Data - 88**

**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 Report Test Cases**

**\*\*Test Case ID:\*\* FT-PR-01**

**\*\*Test Case Title:\*\*** Verify that weekly progress reports are generated and delivered to users.

**\*\*Test Case Description:\*\*** This test case verifies the generation and delivery of weekly progress reports to users.

**\*\*Test Data:\*\*** User account with valid email address

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

1. Log in as a user.
2. Navigate to the "Progress Reports" section.
3. Verify that a weekly progress report is displayed.
4. Check that the report includes step count, calorie burn, distance, heart rate, and workout performance data.

**\*\*Expected Result:\*\*** Weekly progress report is generated and delivered to the user.

**\*\*Test Case ID:\*\* FT-PR-02**

**\*\*Test Case Title:\*\*** Verify that monthly progress reports include goal attainment data.

**\*\*Test Case Description:\*\*** This test case ensures that monthly progress reports include data on goal attainment.

**\*\*Test Data:\*\*** User with set fitness goals

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

1. Set monthly fitness goals in the app.
2. Generate monthly progress report.
3. Verify that the report includes details on goal attainment.

**\*\*Expected Result:\*\*** Monthly progress report includes data on goal attainment.

**\*\*Test Case ID:\*\*** FT-PR-03

**\*\*Test Case Title:\*\*** Verify that the app provides recommendations based on progress report findings.

**\*\*Test Case Description:\*\*** This test case verifies that the app suggests actions or recommendations based on analyzed progress report data.

**\*\*Test Data:\*\*** Consistent activity data with significant variance

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

1. Generate a progress report.
2. Check the "Recommendations" section of the report.
3. Verify that the app suggests specific actions to improve fitness performance.

**\*\*Expected Result:\*\*** The app provides relevant recommendations based on the user's progress report.

**\*\*Test Case ID:\*\*** FT-PR-04

**\*\*Test Case Title:\*\*** Verify that users can customize the frequency and content of reports.

**\*\*Test Case Description:\*\*** This test case allows users to personalize their progress reports.

**\*\*Test Data:\*\*** User preferences for report frequency and content

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

1. Navigate to the "Settings" section.
2. Select "Progress Reports."
3. Adjust preferences for frequency and content of reports.
4. Verify that the modified settings are saved and reflected in reports.

**\*\*Expected Result:\*\*** Users can customize the frequency and content of their progress reports.

**\*\*Test Case ID:\*\*** FT-PR-05

**\*\*Test Case Title:\*\*** Verify that the app provides detailed breakdowns of achievements and trends in progress reports.

**\*\*Test Case Description:\*\*** This test case ensures detailed breakdowns of achievements and trends in progress reports.

**\*\*Test Data:\*\*** Historical fitness data with significant variance

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

1. Generate a progress report.
2. Navigate through the report and check detailed breakdowns.
3. Verify that the report highlights significant achievements and trends in various metrics.

**\*\*Expected Result:\*\*** Progress report provides detailed breakdowns of achievements and trends.

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**Data - 89**

**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:\*\*** Verify that users can join various in-app challenges.

**\*\*Test Case ID:\*\*** FTA-1

**\*\*Test Case Title:\*\*** Verify that users can join various in-app challenges.

**\*\*Test Case Description:\*\*** This test case verifies that users can successfully join multiple in-app challenges and receive relevant notifications and reminders.

**\*\*Test Suite:\*\*** In-App Challenges

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

**\*\*Preconditions:\*\*** User has logged into the app.

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

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

- Navigate to the "Challenges" section.
- Select a desired challenge from the available list.
- Verify that the user is added to the challenge and receives a notification.

**\*\*Postconditions:\*\*** User's challenge progress is updated.

**\*\*Expected Result:\*\*** The user successfully joins the chosen challenge.

**\*\*Severity:\*\*** Minor

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

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

**\*\*Test Case 2:\*\*** Verify that challenges have clear objectives and rules.

**\*\*Test Case ID:\*\*** FTA-2

**\*\*Test Case Title:\*\*** Verify that challenges have clear objectives and rules.

**\*\*Test Case Description:\*\*** This test case verifies that each challenge has clearly defined objectives and rules, including points system, time limits, and eligibility criteria.

**\*\*Test Suite:\*\*** In-App Challenges

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

**\*\*Preconditions:\*\*** User has joined a challenge.

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

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

- Review the challenge details.
- Verify that the challenge has a defined goal and scoring criteria.
- Check if any eligibility requirements are specified.

**\*\*Postconditions:\*\*** N/A

**\*\*Expected Result:\*\*** Challenge objectives and rules are clearly defined.

**\*\*Severity:\*\*** Minor

**\*\*Priority:\*\*** Medium



**\*\*Test Case 3:\*\*** Verify that users can track their progress within the challenge.

**\*\*Test Case ID:\*\*** FTA-3

**\*\*Test Case Title:\*\*** Verify that users can track their progress within the challenge.

**\*\*Test Case Description:\*\*** This test case verifies that users can track their performance within the challenge and monitor their progress towards the goal.

**\*\*Test Suite:\*\*** In-App Challenges

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

**\*\*Preconditions:\*\*** User has joined a challenge.

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

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

- Participate in the challenge activities.
- Review the challenge progress dashboard.
- Verify that performance is accurately recorded and updated.

**\*\*Postconditions:\*\*** User's challenge progress is saved.

**\*\*Expected Result:\*\*** User's progress is accurately tracked within the challenge.

**\*\*Severity:\*\*** Minor

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

**\*\*Test Case 4:\*\*** Verify that rewards are provided for achieving challenge milestones.

**\*\*Test Case ID:\*\*** FTA-4

**\*\*Test Case Title:\*\*** Verify that rewards are provided for achieving challenge milestones.

**\*\*Test Case Description:\*\*** This test case verifies that users receive rewards when they achieve certain milestones within the challenge.

**\*\*Test Suite:\*\*** In-App Challenges

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

**\*\*Preconditions:\*\*** User has joined a challenge and achieved a milestone.

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

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

- Achieve a challenge milestone.
- Verify that a reward has been credited to the user's account.

**\*\*Postconditions:\*\*** User's rewards are updated.

**\*\*Expected Result:\*\*** User receives a reward for achieving the milestone.

**\*\*Severity:\*\*** Minor

**\*\*Priority:\*\*** Medium

**\*\*Test Case 5:\*\*** Verify that users can compete with friends and view leaderboards.

**\*\*Test Case ID:\*\*** FTA-5

**\*\*Test Case Title:\*\*** Verify that users can compete with friends and view leaderboards.

**\*\*Test Case Description:\*\*** This test case verifies that users can compete against friends and track their performance on leaderboards within the challenge.

**\*\*Test Suite:\*\*** In-App Challenges

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

**\*\*Preconditions:\*\*** User has joined a challenge and has friends participating.

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

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

- Invite friends to join the challenge.
- Participate in the challenge activities.
- Review the challenge leaderboard.

**\*\*Postconditions:\*\*** User's competition status is updated.

**\*\*Expected Result:\*\*** Users can compete with friends on the leaderboard.

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## **Data - 90**

### **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:**

## ## Fitness Tracker App - Customizable Dashboards Test Cases

**\*\*Test Case 1:\*\*** Verify that users can select which metrics to display on their dashboard.

**\* \*\*Test Case ID:\*\*** FT-01

**\* \*\*Test Case Title:\*\*** Verify that users can select which metrics to display on their dashboard.

**\* \*\*Test Case Description:\*\*** This test case verifies the user's ability to choose which fitness metrics to display on their personalized dashboard.

**\* \*\*Test Data:\*\*** Step count, calorie burn, distance, heart rate, workout duration.

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

- Log in to the app.
- Navigate to the dashboard settings.
- Select desired metrics from the available list.
- Verify that the selected metrics are displayed on the dashboard.

**\*\*Test Case 2:\*\*** Verify that the app allows customization of dashboard layout and theme.

**\* \*\*Test Case ID:\*\*** FT-02

**\* \*\*Test Case Title:\*\*** Verify that the app allows customization of dashboard layout and theme.

**\* \*\*Test Case Description:\*\*** This test case verifies the user's ability to customize the layout and theme of their dashboard.

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

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

- Navigate to the dashboard settings.
- Alter the layout and theme options.
- Verify that the changes are reflected on the dashboard.

**\*\*Test Case 3:\*\*** Verify that users can save and update their dashboard settings.

**\* \*\*Test Case ID:\*\*** FT-03

**\* \*\*Test Case Title:\*\*** Verify that users can save and update their dashboard settings.

**\* \*\*Test Case Description:\*\*** This test case verifies the user's ability to save and update their dashboard configurations persistently.

**\* \*\*Test Data:\*\*** Saved dashboard configuration.

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

- Modify dashboard layout and theme settings.
- Click the "Save" button.
- Verify that the changes are saved and can be accessed later.

**\*\*Test Case 4:\*\*** Verify that dashboard displays are dynamic and update in real-time.

**\* \*\*Test Case ID:\*\*** FT-04

**\* \*\*Test Case Title:\*\*** Verify that dashboard displays are dynamic and update in real-time.

**\* \*\*Test Case Description:\*\*** This test case verifies that the dashboard automatically updates in real-time based on sensor data or user activity.

**\* \*\*Test Data:\*\*** Active tracking of a workout.

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

- Initiate a workout.
- Monitor the dashboard in real-time.
- Observe that the displayed metrics update dynamically during the workout.

**\*\*Test Case 5:\*\*** Verify that users can reset the dashboard to default settings.

**\* \*\*Test Case ID:\*\*** FT-05

**\* \*\*Test Case Title:\*\*** Verify that users can reset the dashboard to default settings.

**\* \*\*Test Case Description:\*\*** This test case verifies the user's ability to reset their dashboard to its original configuration.

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

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

- Navigate to the dashboard settings.
- Click on the "Reset Defaults" button.
- Verify that all dashboard settings are reset to their initial state.

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## **Data - 91**

### **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**

**\*\*Test Case 1: Share Successful Workout Summary\*\***

**\*\*Test Case ID:\*\* FT-SOCIAL-01**

**\*\*Test Case Title:\*\*** Verify that users can share successful workout summaries on Facebook.

**\*\*Test Case Description:\*\*** Ensure users can seamlessly share completed workouts with detailed summaries and achievement graphics on Facebook.

**\*\*Test Data:\*\*** Completed workout with achievement unlocked.

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

- Select "Share Workout" option.
- Choose Facebook as the sharing platform.
- Verify that the workout summary and achievement are displayed on Facebook.

**\*\*Expected Result:\*\*** Successful sharing with detailed summary and achievement visualization.

## **\*\*Test Case 2: Share on Multiple Platforms\*\***

**\*\*Test Case ID:\*\* FT-SOCIAL-02**

**\*\*Test Case Title:\*\*** Verify that the app supports sharing on multiple social media platforms.

**\*\*Test Case Description:\*\*** Ensure users can share data on supported platforms like Twitter, Instagram, and LinkedIn.

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

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

- Login to the app.
- Select "Share Workout" option.
- Choose different social media platforms from the list.
- Verify that sharing functionality is available on all selected platforms.

**\*\*Expected Result:\*\*** Seamless sharing across multiple platforms.

## **\*\*Test Case 3: Customizing Shared Content\*\***

**\*\*Test Case ID:\*\*** FT-SOCIAL-03

**\*\*Test Case Title:\*\*** Verify that users can customize the content and format of shared posts.

**\*\*Test Case Description:\*\*** Ensure users can personalize their shared content with custom captions and tags.

**\*\*Test Data:\*\*** Workout summary with specific achievements.

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

- Share a workout summary.
- Access the shared post on the chosen platform.
- Modify the caption and tags.
- Verify that the changes are reflected on the shared post.

**\*\*Expected Result:\*\*** Customized content and format for shared posts.



#### **\*\*Test Case 4: Seamless Social Integration\*\***

**\*\*Test Case ID:\*\* FT-SOCIAL-04**

**\*\*Test Case Title:\*\*** Verify that sharing features are seamlessly integrated with social media accounts.

**\*\*Test Case Description:\*\*** Ensure seamless login and authorization with social media platforms without requiring repetitive login credentials.

**\*\*Test Data:\*\*** Existing social media account.

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

- Sign in to the app using existing social media credentials.
- Share a workout.
- Verify that the login process is transparent and requires no additional actions.

**\*\*Expected Result:\*\*** Smooth and secure social media integration.

#### **\*\*Test Case 5: Track Shared Post Engagement\*\***

**\*\*Test Case ID:\*\* FT-SOCIAL-05**

**\*\*Test Case Title:\*\*** Verify that users can track engagement of their shared posts.

**\*\*Test Case Description:\*\*** Ensure users can track reactions, comments, and shares of their shared content.

**\*\*Test Data:\*\*** Shared workout summary.

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

- Share a workout summary.
- Monitor the post analytics within the app.
- Track received reactions, comments, and shares.

**\*\*Expected Result:\*\*** Detailed engagement tracking for shared content.

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## **Data - 92**

### **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:**

## Fitness Tracker App - Rest and Recovery Tracking Test Cases

**\*\*Test Case ID:\*\* FT-REST-001**

**\*\*Test Case Title:\*\* Verify that users can log rest days**

**\*\*Test Case Description:\*\* This test case verifies that users can successfully input and save rest days in the app.**

**\*\*Test Suite:\*\* Rest and Recovery Tracking**

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

**\*\*Preconditions:\*\* User is logged into the app, has created a profile**

**\*\*Test Data:\*\* "Rest Day", "2023-10-27"**

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

1. Open the Rest & Recovery section.
2. Click on "Log Rest Day".
3. Enter a date for the rest day.
4. Click "Save".

**\*\*Expected Result:\*\* The rest day is added to the user's rest history, and a notification confirms the successful save.**

**\*\*Test Case ID:\*\* FT-REST-002**

**\*\*Test Case Title:\*\* Verify that the app tracks metrics such as resting heart rate and sleep quality**

**\*\*Test Case Description:\*\* This test case verifies that the app automatically tracks and records resting heart rate and sleep quality during rest days.**

**\*\*Test Suite:\*\* Rest and Recovery Tracking**

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

**\*\*Preconditions:\*\* User has logged a rest day**

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

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

1. Rest for a period of time.

2. Open the Rest & Recovery section.

3. Review the recorded resting heart rate and sleep quality data for the rest day.

**\*\*Expected Result:\*\*** The app accurately tracks and displays the metrics for the rest day.

**\*\*Test Case ID:\*\*** FT-REST-003

**\*\*Test Case Title:\*\*** Verify that the app provides recommendations for recovery based on activities

**\*\*Test Case Description:\*\*** This test case verifies that the app suggests appropriate recovery activities based on the user's logged activities.

**\*\*Test Suite:\*\*** Rest and Recovery Tracking

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

**\*\*Preconditions:\*\*** User has logged several activities of varying intensities.

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

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

1. Finish a strenuous workout.

2. Open the Recovery Recommendations section.

3. Review the suggested recovery activities.

**\*\*Expected Result:\*\*** The app provides relevant and personalized recommendations.

**\*\*Test Case ID:\*\*** FT-REST-004

**\*\*Test Case Title:\*\*** Verify that the app provides alerts for insufficient recovery time

**\*\*Test Case Description:\*\*** This test case verifies that the app issues alerts when recovery time is insufficient for planned activity levels.

**\*\*Test Suite:\*\*** Rest and Recovery Tracking

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

**\*\*Preconditions:\*\*** User has set recovery time for a planned activity.

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

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

1. Choose an activity with a short recovery time.
2. Attempt to schedule the activity without sufficient rest.
3. Observe the app issuing an alert.

**\*\*Expected Result:\*\*** The app accurately alerts the user of the insufficient recovery time.

**\*\*Test Case ID:\*\*** FT-REST-005

**\*\*Test Case Title:\*\*** Verify that users can view trends and history of their recovery data

**\*\*Test Case Description:\*\*** This test case verifies that users can analyze and track their recovery trends over time.

**\*\*Test Suite:\*\*** Rest and Recovery Tracking

**\*\*Test Priority:\*\*** Low

**\*\*Preconditions:\*\*** User has logged recovery data for multiple days.

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

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

1. Open the Recovery History section.
2. Review the provided graphs and charts.
3. Analyze trends in resting heart rate, sleep quality, and recovery activities.

**\*\*Expected Result:\*\*** The app allows users to visualize and analyze their recovery data effectively.

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**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:**

## Fitness Tracker App - Audio Coaching Test Cases

**\*\*Test Case 1:\*\*** Verify that users can access a variety of audio-guided workouts.

**\*\*Test Case Description:\*\*** Test the selection and availability of various pre-recorded audio-guided workouts of different lengths, genres, and intensity levels.

**\*\*Test Data:\*\*** Various workout types (cardio, strength training, yoga), intensities (low, moderate, high), and

durations.

**\*\*Expected Result:\*\*** The app displays a list of available workouts corresponding to the selected category and filters.

**\*\*Test Case 2:\*\*** Verify that audio coaching includes motivational messages and coaching cues.

**\*\*Test Case Description:\*\*** Test the inclusion of encouraging messages and technical guidance during workouts, delivered through audio feedback.

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

**\*\*Expected Result:\*\*** Audio feedback provides motivating messages and coaching cues relevant to the current workout phase and intensity.

**\*\*Test Case 3:\*\*** Verify that users can choose coaching based on workout type and intensity.

**\*\*Test Case Description:\*\*** Test the ability to filter audio coaching based on chosen workout type and intensity levels.

**\*\*Test Data:\*\*** Various workout types and intensity levels.

**\*\*Expected Result:\*\*** The app filters and displays audio coaching options based on chosen filters.

**\*\*Test Case 4:\*\*** Verify that audio coaching integrates seamlessly with other app features.

**\*\*Test Case Description:\*\*** Test the synchronization of audio cues with relevant app features like heart rate tracking, step counting, and workout timing.

**\*\*Test Data:\*\*** Data from connected wearable devices or sensors.

**\*\*Expected Result:\*\*** Audio coaching aligns with the progress of the workout and relevant app features.

**\*\*Test Case 5:\*\*** Verify that users can control audio settings and preferences.

**\*\*Test Case Description:\*\*** Test the ability to adjust volume, playback controls, and notification preferences for audio coaching.

**\*\*Test Data:\*\*** Various volume levels, playback speeds, and notification configurations.

**\*\*Expected Result:\*\*** Users can customize audio settings and preferences to their preferences.

-----

**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:**

#### **## Fitness Tracker App - Integration with Health Apps Test Cases**

**\*\*1. Verify that the app integrates with popular health and wellness apps.\*\***

- **\*\*Test Data:\*\*** Various popular health apps like Calorie Counter, Headspace, Calm, etc.
- **\*\*Test Steps:\*\***
  - Launch the app and navigate to the settings menu.
  - Locate and enable the "Health App Integration" feature.
  - Select a supported health app from the list.
  - Verify successful connection with the selected app.
- **\*\*Expected Result:\*\*** Successful connection with the chosen health app.

**\*\*2. Verify that users can sync data from connected health apps.\*\***

- **\*\*Test Data:\*\*** Data from multiple connected health apps.
- **\*\*Test Steps:\*\***
  - Select a health app from the list in the "Health App Integration" settings.

- Perform an action within the health app that generates data (e.g., completing a workout).
- Return to the fitness tracker app and check the data synchronization process.
- **Expected Result:** Data from the connected health app is seamlessly transferred and displayed in the fitness tracker app.

**3. Verify that the app provides a consolidated view of health metrics.**

- **Test Data:** Sync data from multiple health apps.
- **Test Steps:**
  - Connect the fitness tracker app with various health apps.
  - Access the "Health Summary" or "Combined Data" section.
  - Verify that data from all connected apps is displayed in a comprehensive and user-friendly manner.
- **Expected Result:** Comprehensive overview of all tracked metrics from connected health apps.

**4. Verify that the app provides insights based on combined data from multiple apps.**

- **Test Data:** Data from different health apps, including calorie burn, sleep patterns, and meditation sessions.
- **Test Steps:**
  - Connect the fitness tracker app with a calorie counter and a meditation app.
  - Track activities for a period of time.
  - Review the insights or reports generated by the app.
- **Expected Result:** Personalized and actionable insights based on combined data from various sources.

**\*\*5. Verify that integration settings are easy to manage and configure.\*\***

- **\*\*Test Data:\*\*** Different health apps and connection preferences.

- **\*\*Test Steps:\*\***

- Access the "Health App Integration" settings.

- Easily add and remove connected health apps.

- Configure data synchronization preferences.

- **\*\*Expected Result:\*\*** Simple and intuitive configuration of health app integration settings.

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**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:**

#### **## Fitness Tracker App - Body Composition Tracking Test Cases**

**\*\*Test Case 1:\*\*** Verify that users can log weight, body fat percentage, and muscle mass.

**\*\*Test Case ID:\*\*** BC-1

**\*\*Test Case Title:\*\*** Validate body composition input fields

**\*\*Test Case Description:\*\*** Test the functionality of input fields for weight, body fat percentage, and muscle mass.

**\*\*Test Data:\*\*** 70kg, 18%, 50kg

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

- Navigate to the body composition tracking section.
- Enter valid values for weight, body fat percentage, and muscle mass.
- Verify that the entered values are displayed correctly.

**\*\*Test Case 2:\*\*** Verify that the app calculates and displays BMI.

**\*\*Test Case ID:\*\*** BC-2

**\*\*Test Case Title:\*\*** Calculate and display BMI correctly

**\*\*Test Case Description:\*\*** Test the accuracy of BMI calculation and display.

**\*\*Test Data:\*\*** 70kg, 18%

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

- Enter weight and body fat percentage in the input fields.
- Click the "Calculate BMI" button.
- Verify that the calculated BMI is displayed alongside other metrics.

**\*\*Test Case 3:\*\*** Verify that users can view trends and history of body composition changes.

**\*\*Test Case ID:\*\*** BC-3

**\*\*Test Case Title:\*\*** View body composition trends

**\*\*Test Case Description:\*\*** Test the functionality of trend and history visualization.

**\*\*Test Data:\*\*** Multiple data points for weight, body fat percentage, and muscle mass.

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

- Select a date range to view historical data.
- Review the graphs and charts displaying body composition trends.

**\*\*Test Case 4:\*\*** Verify that the app provides insights and recommendations based on body composition data.

**\*\*Test Case ID:\*\*** BC-4

**\*\*Test Case Title:\*\*** Generate personalized recommendations

**\*\*Test Case Description:\*\*** Test the generation of recommendations based on body composition data.

**\*\*Test Data:\*\*** Various body composition data sets.

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

- Input body composition metrics.

- Review the provided insights and recommendations.

**\*\*Test Case 5:\*\*** Verify that users can set goals for body composition metrics.

**\*\*Test Case ID:\*\*** BC-5

**\*\*Test Case Title:\*\*** Set body composition goals

**\*\*Test Case Description:\*\*** Test the functionality of setting goals for body composition metrics.

**\*\*Test Data:\*\*** Specific target values for weight, body fat percentage, and muscle mass.

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

- Navigate to the body composition goals section.
- Enter specific target values for desired metrics.
- Verify that the goals are saved and tracked.

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**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:**

##### **## Fitness Tracker App - Workout Analysis Test Cases**

**\*\*Test Case 1:\*\*** Verify that the user can view detailed performance metrics for each workout.

**\*\*Test Case ID:\*\*** FT-WorkoutAnalysis-01

**\*\*Test Case Description:\*\*** This test case verifies the functionality of displaying workout-specific data like steps taken, calories burned, distance traveled, and heart rate.

**\*\*Test Data:\*\*** User-defined workout data with various metrics.

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

1. Launch the app and select the "Workout Analysis" section.
2. Select a completed workout from the list.
3. Verify that the performance metrics are displayed for the chosen workout.

**\*\*Test Case 2:\*\*** Verify that the app provides trends and insights into workout intensity and duration.

**\*\*Test Case ID:\*\*** FT-WorkoutAnalysis-02

**\*\*Test Case Description:\*\*** This test case verifies the user's ability to analyze workout intensity and duration trends over time.

**\*\*Test Data:\*\*** Data from multiple completed workouts with varying intensity levels.

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

1. Select the "Workout Analysis" section.
2. Choose a range of dates to generate the trends.
3. Review the provided visual representations of intensity and duration trends.

**\*\*Test Case 3:\*\*** Verify that the app tracks calorie burn and other health metrics.

**\*\*Test Case ID:\*\*** FT-WorkoutAnalysis-03

**\*\*Test Case Description:\*\*** This test case verifies the accuracy and tracking of calorie burn and other relevant health metrics during workouts.

**\*\*Test Data:\*\*** User-defined workout data with specified calorie burn estimates.

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



1. Start a new workout and track various activities.
2. Verify the app accurately logs calorie burn and other metrics.
3. Review the detailed workout analysis report.

**\*\*Test Case 4:\*\*** Verify that the app offers recommendations based on workout analysis.

**\*\*Test Case ID:\*\*** FT-WorkoutAnalysis-04

**\*\*Test Case Description:\*\*** This test case verifies the personalized recommendations provided based on workout analysis.

**\*\*Test Data:\*\*** Data from various completed workouts with different results.

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

1. Analyze a completed workout using the "Workout Analysis" section.
2. Review the provided recommendations for improving future workouts.

**\*\*Test Case 5:\*\*** Verify that the user can compare current workouts with past performance.

**\*\*Test Case ID:\*\*** FT-WorkoutAnalysis-05

**\*\*Test Case Description:\*\*** This test case verifies the functionality of comparing current and past workouts to identify improvements.

**\*\*Test Data:\*\*** Data from multiple completed workouts with different metrics.

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

- 1. Access the "Workout Analysis" section.
- 2. Select multiple workouts from the list.
- 3. Review the comparison report showing performance trends over time.

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**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:\*\* FT-WC-001**

**\*\*Test Case Title:\*\*** Verify that the app displays current weather conditions

**\*\*Test Case Description:\*\*** This test case verifies that the app retrieves and displays accurate current weather conditions for the user's location.

**\*\*Test Data:\*\*** Location permission enabled, internet connection available

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

1. Launch the app and navigate to the weather section.
2. Verify that the location permission request is displayed.
3. Grant location permission.
4. Verify that current weather conditions are displayed on the screen.

**\*\*Expected Result:\*\*** Current weather conditions are displayed correctly for the given location.

**\*\*Test Case ID:\*\* FT-WC-002**

**\*\*Test Case Title:\*\*** Verify that users can view weather forecasts for different locations

**\*\*Test Case Description:\*\*** This test case verifies that users can select different locations and view weather forecasts for those locations.

**\*\*Test Data:\*\*** Various locations worldwide

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

1. Navigate to the weather section of the app.
2. Select a location from the provided list.
3. Verify that the 5-day weather forecast is displayed for the selected location.

4. Repeat steps 2 and 3 for different locations.

**\*\*Expected Result:\*\*** Accurate weather forecasts are displayed for selected locations.

**\*\*Test Case ID:\*\*** FT-WC-003

**\*\*Test Case Title:\*\*** Verify that weather data is updated in real-time

**\*\*Test Case Description:\*\*** This test case verifies that the weather data displayed in the app is updated automatically and in real-time.

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

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

1. Start the app and navigate to the weather section.
2. Note the current temperature reading.
3. Wait for a few minutes and observe the temperature reading automatically update.

**\*\*Expected Result:\*\*** Weather data is updated in real-time, reflecting changes in actual weather conditions.

**\*\*Test Case ID:\*\*** FT-WC-004

**\*\*Test Case Title:\*\*** Verify that the app offers recommendations based on weather conditions

**\*\*Test Case Description:\*\*** This test case verifies that the app provides relevant recommendations based on the current weather conditions.

**\*\*Test Data:\*\*** Various weather conditions

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

1. Open the weather section of the app.
2. Observe the recommendations section for different activities.
3. Verify that the recommendations change based on the current weather conditions.

**\*\*Expected Result:\*\*** Recommendations are relevant and tailored to current weather conditions.

**\*\*Test Case ID:\*\* FT-WC-005**

**\*\*Test Case Title:\*\* Verify that users receive weather alerts for extreme conditions**

**\*\*Test Case Description:\*\* This test case verifies that the app sends notifications and alerts when extreme weather conditions are detected.**

**\*\*Test Data:\*\* Severe weather alerts configured in settings**

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

1. Configure weather alerts for extreme temperatures or precipitation.
2. Simulate or trigger extreme weather conditions through the app or mock data.
3. Verify that a notification is received on the user's device.

**\*\*Expected Result:\*\* Timely weather alerts are received for extreme conditions.**

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**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 Creation Template:\*\***

**\*\*Test Case ID:\*\*** FT-MT-001

**\*\*Test Case Title:\*\*** Verify that users can log their mood, energy levels, and motivation.

**\*\*Test Case Description:\*\*** This test case verifies that users can input their mood, energy levels, and motivation values for both before and after workouts.

**\*\*Test Suite:\*\*** Mood Tracking

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

**\*\*Preconditions:\*\*** User has logged into the app, selected a workout, and is on the Mood Tracking screen.

**\*\*Test Data:\*\*** Mood: Happy, Energy levels: High, Motivation: 80%

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

1. Navigate to the Mood Tracking screen.
2. Select the "Before Workout" time frame.
3. Enter mood, energy levels, and motivation values.

4. Repeat steps 2 & 3 for the "After Workout" time frame.

5. Verify that the mood, energy levels, and motivation values for both time frames are saved.

**\*\*Expected Result:\*\*** Mood, energy levels, and motivation values are successfully logged for both time frames.

**\*\*Severity:\*\*** Major

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

**\*\*Additional Test Cases:\*\***

**\*\*FT-MT-002:\*\*** Verify that the app provides insights into mood and energy trends over time.

**\*\*FT-MT-003:\*\*** Verify that the app offers recommendations based on mood and energy data.

**\*\*FT-MT-004:\*\*** Verify that the app supports journaling for personal reflections on mood and workouts.

**\*\*FT-MT-005:\*\*** Verify that users can set goals for improving mood and energy levels.

**\*\*Test Case Approach:\*\*** Mixed - Positive, Negative, and Exploratory.

**\*\*Quality Assurance Focus:\*\***

- This test suite aims to ensure that the Mood Tracking feature is fully functional and meets user needs.
- Comprehensive testing will identify potential defects and contribute to the development of a high-quality software product.

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**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:**

## Test Cases for Recipe Creation Feature

**\*\*Test Case ID:\*\*** TC-Recipe-01

**\*\*Test Case Title:\*\*** Verify that users can input and save ingredients and cooking instructions.

**\*\*Test Case Description:\*\*** Tests the core functionality of recipe input, ensuring proper handling of ingredient and instruction text.



**\*\*Test Data:\*\*** "Carrot", "Garlic", "Butter", "Instructions: Mix ingredients and bake for 20 minutes"

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

1. Navigate to the Recipe Creation page.
2. Enter ingredients and cooking instructions.
3. Verify that the input is saved and displayed correctly.
4. Attempt to save an empty recipe and verify the validation message.

**\*\*Expected Result:\*\*** Successful save of recipe with valid inputs.

**\*\*Test Case ID:\*\*** TC-Recipe-02

**\*\*Test Case Title:\*\*** Verify that users can upload photos for their recipes.

**\*\*Test Case Description:\*\*** Tests photo upload functionality, including valid and invalid file types.

**\*\*Test Data:\*\*** Valid image file (jpg, png), Invalid file type (txt)

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

1. Navigate to the Recipe Creation page.
2. Select a valid or invalid image file.
3. Verify the upload process and feedback message.
4. Attempt to upload a file exceeding the allowed size.

**\*\*Expected Result:\*\*** Successful upload of valid files, error message for invalid files.

**\*\*Test Case ID:\*\*** TC-Recipe-03

**\*\*Test Case Title:\*\*** Verify that recipes are saved in the user's profile.

**\*\*Test Case Description:\*\*** Tests the persistence of user-created recipes on the platform.

**\*\*Test Data:\*\*** "My Delicious Recipe", "ingredients", "instructions"

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

1. Create a recipe with the provided details.
2. Verify that the recipe is saved in the user's profile.

3. Log out of the platform and log back in.
4. Verify that the saved recipe is still accessible.

**\*\*Expected Result:\*\*** Recipes are saved in the user's profile and accessible after login.

**\*\*Test Case ID:\*\*** TC-Recipe-04

**\*\*Test Case Title:\*\*** Verify that recipes are accessible to other users on the platform.

**\*\*Test Case Description:\*\*** Tests the visibility of user-created recipes on the platform.

**\*\*Test Data:\*\*** "Test Recipe", "ingredients", "instructions"

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

1. Create a recipe with the provided details.
2. Verify that the recipe is displayed on the platform's recipe list.
3. Log out of the platform and access the platform from another device.
4. Verify that the published recipe is accessible to other users.

**\*\*Expected Result:\*\*** Recipes are accessible to all platform users.

**\*\*Test Case ID:\*\*** TC-Recipe-05

**\*\*Test Case Title:\*\*** Verify that users receive a confirmation upon successful recipe submission.

**\*\*Test Case Description:\*\*** Tests the confirmation message functionality upon successful recipe submission.

**\*\*Test Data:\*\*** "Recipe Title", "Ingredients", "Instructions"

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

1. Create a recipe with the provided details.
2. Verify that a confirmation message is displayed upon successful submission.
3. Verify the content of the confirmation message.

**\*\*Expected Result:\*\*** Users receive a confirmation message upon successful recipe submission.

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**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:**

## Test Cases for Recipe Discovery Feature

**\*\*1. Verify that users can search for recipes using keywords and ingredients\*\***

\* Test Data: "Avocado toast", "Vegetarian main course", "Chocolate dessert"

\* Test Steps:

- Enter search terms in the search bar.
- Verify the number and relevance of results.
- Test different keyword combinations.

\* Expected Result: Search results contain relevant recipes based on the entered terms.

**\*\*2. Verify that search results are relevant and accurately match the search criteria\*\***

\* Test Data: "Seafood + Mediterranean"

\* Test Steps:

- Conduct a search using specific cuisine and dietary preference criteria.
- Review the top results for relevant recipes.
- Check if filters function correctly and narrow results.

\* Expected Result: Search results reflect user-specified criteria and offer relevant recipes.

**\*\*3. Verify that users can filter search results by cuisine type and dietary preferences\*\***

\* Test Data: "Indian food", "Vegan desserts"

\* Test Steps:

- Choose different filter options from the available list.
- Verify the change in displayed recipes.
- Test various combinations of filter criteria.

\* Expected Result: Filter functionality narrows down results based on user-selected criteria.

**\*\*4. Verify that recipes in the search results are accessible and detailed\*\***

\* Test Data: Random recipe from search results

\* Test Steps:

- Click on a recipe in the results.
- Check if the recipe details page displays all necessary information.
- Verify the quality of images, titles, and descriptions.

\* Expected Result: Recipe details are complete and provide relevant information.

**\*\*5. Verify that users can save search results for future reference\*\***

\* Test Data: Various recipe searches

\* Test Steps:

- Click the "Save Search" button.
- Check if the saved searches are accessible from the "Saved Searches" section.
- Test different search criteria and save them for comparison.

\* Expected Result: Search results can be saved and easily accessed for future use.

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