

# 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:

**\*\*1. Verify that a user can add their name to their profile\*\***

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

**\*\*Test Case Title:\*\* Positive: Add valid name to profile**

**\*\*Test Case Description:\*\* The user enters a valid name in the name field and clicks save.**

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

**\*\*Expected Result:\*\* The user's name is successfully saved to their profile.**

**\*\*2. Verify that a profile picture can be uploaded and displayed\*\***

**\*\*Test Case ID:\*\* US-1-2**

**\*\*Test Case Title:\*\* Positive: Upload supported image file**

**\*\*Test Case Description:\*\* The user selects a supported image file and clicks upload.**

**\*\*Test Data:\*\* PNG image file**

**\*\*Expected Result:\*\* The uploaded image is displayed on the user's profile.**

**\*\*3. Verify that a user can edit their bio\*\***

**\*\*Test Case ID:\*\* US-1-3**

**\*\*Test Case Title:\*\* Positive: Edit bio field**

**\*\*Test Case Description:\*\* The user types in a new bio and clicks save.**

**\*\*Test Data:\*\* "Passionate about technology and exploring new ideas."**

**\*\*Expected Result:\*\* The user's bio is updated on their profile.**

**\*\*4. Verify that privacy settings can be modified for profile fields\*\***

**\*\*Test Case ID:\*\* US-1-4**

**\*\*Test Case Title:\*\* Positive: Set visibility restrictions**

**\*\*Test Case Description:\*\* The user selects a field and adjusts the privacy setting from "Public" to "Friends Only."**

**\*\*Test Data:\*\* "Location" field**

**\*\*Expected Result:\*\* Only friends of the user can access the specified field.**

**\*\*5. Verify that a confirmation message is shown after saving the profile\*\***

**\*\*Test Case ID:\*\* US-1-5**

**\*\*Test Case Title:\*\* Positive: Save and confirm profile changes**

**\*\*Test Case Description:\*\* The user completes changes to their profile and clicks save.**

**\*\*Test Data:\*\* Various changes to different fields.**

**\*\*Expected Result:\*\* A message confirming the successful saving of the profile is displayed.**

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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:**

#### **## Social Media Platform News Feed Test Cases**

**\*\*Test Case 1:\*\*** Verify that the news feed displays posts from followed accounts.

**\*\*Test Case ID:\*\*** SM-NF-01

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

**\*\*Test Case Description:\*\*** This test case ensures that the news feed correctly fetches and displays posts from accounts the user follows.

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

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

- Log in to the platform.
- Follow a few accounts.
- Navigate to the news feed.
- Verify that posts from the followed accounts appear on the news feed.

**\*\*Expected Result:\*\*** Posts from followed accounts are displayed in the news feed.

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

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

**\*\*Test Case Title:\*\*** Verify content is shown in chronological or algorithmic order.

**\*\*Test Case Description:\*\*** This test case checks if the news feed prioritizes content based on time or algorithm.

**\*\*Test Data:\*\*** Sample posts with different timestamps

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

- Post several updates at different times.
- Refresh the news feed.
- Verify that recent posts appear higher in the feed.

**\*\*Expected Result:\*\*** Content is displayed in chronological or algorithmic order.

**\*\*Test Case 3:\*\*** Verify users can interact with posts (like, comment, share).

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

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

**\*\*Test Case Description:\*\*** This test case verifies that users can like, comment, or share posts on the news feed.

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

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

- Locate a post on the news feed.
- Verify that like, comment, and share buttons are displayed.
- Like/comment/share the post.

**\*\*Expected Result:\*\*** The action is reflected on the post and updates the news feed.

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

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

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

**\*\*Test Case Description:\*\*** This test case ensures that the news feed updates automatically as new content becomes available.

**\*\*Test Data:\*\*** New posts published by followed accounts

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

- Follow an account that regularly publishes content.
- Publish new content.
- Verify that the new content appears on the news feed immediately.

**\*\*Expected Result:\*\*** The newsfeed updates in real-time with new content.

**\*\*Test Case 5:\*\*** Verify users can filter content based on type or topic.

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

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

**\*\*Test Case Description:\*\*** This test case checks if users can filter the news feed by content type or topic.

**\*\*Test Data:\*\*** Sample posts with different types and topics

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

- Filter the news feed by content type (e.g., photos, videos, status updates).
- Filter the news feed by a specific topic.

**\*\*Expected Result:\*\*** The news feed displays content filtered by the selected 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:\*\*** Verify that users can send text messages

**\*\*Test Case ID:\*\*** TC-Messaging-01

**\*\*Test Case Description:\*\*** This test case verifies that users can successfully send text messages to other users.

**\*\*Test Data:\*\*** "Hello world!"

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

1. Launch the messaging interface.
2. Compose a new message.
3. Enter the recipient's username.
4. Enter the message text.
5. Click the send button.

**\*\*Expected Result:\*\*** The message is delivered successfully and displayed in the conversation list.

**\*\*Test Case 2:\*\*** Verify that users can send images and videos

**\*\*Test Case ID:\*\*** TC-Messaging-02

**\*\*Test Case Description:\*\*** This test case verifies that users can send images and videos as attachments in private messages.

**\*\*Test Data:\*\*** Image file, Video file

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

1. Launch the messaging interface.
2. Compose a new message.



3. Click the "Attach" button.

4. Select the desired image or video file.

5. Click the "Send" button.

**\*\*Expected Result:\*\*** The file is attached to the message and delivered to the recipient.

**\*\*Test Case 3:\*\*** Verify that users can start private conversations

**\*\*Test Case ID:\*\*** TC-Messaging-03

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

**\*\*Test Data:\*\*** "New Conversation"

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

1. Launch the messaging interface.

2. Click the "New Conversation" button.

3. Enter the desired recipient's username.

4. Click the "Start Conversation" button.

**\*\*Expected Result:\*\*** A new private conversation is created with the selected recipient.

**\*\*Test Case 4:\*\*** Verify that messages display read receipts

**\*\*Test Case ID:\*\*** TC-Messaging-04

**\*\*Test Case Description:\*\*** This test case verifies that messages sent to other users display read receipts when the recipient has read the message.

**\*\*Test Data:\*\*** "Test message"

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

1. Send a message to another user.

2. Confirm that the message is delivered.

3. The recipient reads the message.

**\*\*Expected Result:\*\*** A read receipt appears next to the delivered message for the recipient.

**\*\*Test Case 5:\*\*** Verify that users are notified of new messages

**\*\*Test Case ID:\*\*** TC-Messaging-05

**\*\*Test Case Description:\*\*** This test case verifies that users receive notifications when new messages arrive in their inboxes.

**\*\*Test Data:\*\*** "New message notification"

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

- 1. Launch the messaging interface.
- 2. Send a message to another user.
- 3. Verify that a notification appears on the user's interface.

**\*\*Expected Result:\*\*** The user receives a notification indicating a new message in their inbox.

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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:**

##### **## Test Cases for Content Sharing Feature**

**\*\*Test Case 1:\*\*** Verify that users can create and share text posts.

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

**\*\*Test Case Title:\*\*** Create and Share Text Post

**\*\*Test Case Description:\*\*** This test case verifies that users can successfully create and share text posts with their followers or publicly.

**\*\*Test Data:\*\*** "This is a test post."

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

- Log in as a user.
- Navigate to the 'Create Post' page.
- Enter text in the 'Post Content' field.
- Select 'Share with Followers' or 'Share Publicly'.
- Click the 'Share' button.

**\*\*Expected Result:\*\*** The post is created and displayed on the user's feed.

**\*\*Test Case 2:\*\*** Verify that users can share photos.

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

**\*\*Test Case Title:\*\*** Share Photo

**\*\*Test Case Description:\*\*** This test case verifies that users can share photos with their followers or publicly.

**\*\*Test Data:\*\*** 'image.jpg'

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

- Log in as a user.
- Navigate to the 'Create Post' page.
- Click the 'Photo' icon.
- Select an image from the device storage.
- Choose 'Share with Followers' or 'Share Publicly'.
- Click the 'Share' button.

**\*\*Expected Result:\*\*** The photo is uploaded and shared on the user's feed.

**\*\*Test Case 3:\*\*** Verify that users can share videos.

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

**\*\*Test Case Title:\*\*** Share Video

**\*\*Test Case Description:\*\*** This test case verifies that users can share videos with their followers or publicly.

**\*\*Test Data:\*\*** 'video.mp4'

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

- Log in as a user.
- Navigate to the 'Create Post' page.

- Click the 'Video' icon.
- Select a video from the device storage.
- Choose 'Share with Followers' or 'Share Publicly'.
- Click the 'Share' button.

**\*\*Expected Result:\*\*** The video is uploaded and shared on the user's feed.

**\*\*Test Case 4:\*\*** Verify that users can share links to articles and documents.

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

**\*\*Test Case Title:\*\*** Share External Link

**\*\*Test Case Description:\*\*** This test case verifies that users can share links to articles or documents with their followers or publicly.

**\*\*Test Data:\*\*** 'https://example.com/article'

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

- Log in as a user.
- Navigate to the 'Create Post' page.
- Enter the link in the 'Link' field.
- Choose 'Share with Followers' or 'Share Publicly'.
- Click the 'Share' button.

**\*\*Expected Result:\*\*** The link is shared on the user's feed.

**\*\*Test Case 5:\*\*** Verify that users receive feedback on their shared content.

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

**\*\*Test Case Title:\*\*** Receive Feedback on Shared Content

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

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

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

- Share a post with multiple users.
- Verify that likes, comments, and shares appear on the post.

**\*\*Expected Result:\*\*** Users receive feedback on their shared content through likes, comments, and shares.

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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:**

### **## Social Media Platform - Privacy Settings Test Cases**

#### **\*\*Test Case 1: Public Privacy Setting\*\***

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

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

**\*\*Test Case Description:\*\*** Test that users can successfully change their privacy settings to "Public" and verify that their profile becomes visible to all platform users.

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

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

1. Navigate to privacy settings
2. Select "Public" privacy option
3. Verify that profile becomes visible to all users
4. Check if profile information is accessible to other users

**\*\*Expected Result:\*\*** Profile becomes publicly accessible

#### **\*\*Test Case 2: Private Privacy Setting\*\***

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

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

**\*\*Test Case Description:\*\*** Test that users can change privacy settings to "Private" and confirm only

authorized users can access their content.

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

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

1. Navigate to privacy settings
2. Select "Private" privacy option
3. Send a message/friend request to a different user
4. Verify access restrictions

**\*\*Expected Result:\*\*** Profile remains private and accessible only to authorized users

**\*\*Test Case 3: Restricted Privacy Setting\*\***

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

**\*\*Test Case Title:\*\*** Verify that users can set specific visibility for individual posts

**\*\*Test Case Description:\*\*** Test that users can control the visibility of individual posts by choosing between "Public," "Private," or "Restricted"

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

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

1. Create a post
2. Select privacy options for the post
3. Verify post visibility settings are respected

**\*\*Expected Result:\*\*** Post privacy settings are applied appropriately

**\*\*Test Case 4: Privacy Setting Change Notification\*\***

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



**\*\*Test Case Title:\*\*** Verify that users receive notifications when privacy settings change

**\*\*Test Case Description:\*\*** Test that users receive notifications when their privacy settings are changed by them or others.

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

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

1. Change privacy settings
2. Monitor notification center
3. Verify that a notification is received for the privacy setting change

**\*\*Expected Result:\*\*** Notification is delivered upon privacy setting change

**\*\*Test Case 5: Respect for Privacy Settings\*\***

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

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

**\*\*Test Case Description:\*\*** Test that the system adheres to user-defined privacy settings across all functions and features.

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

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

1. Set privacy settings to desired level
2. Perform various platform activities
3. Verify that privacy settings remain in effect

**\*\*Expected Result:\*\*** Privacy settings are upheld throughout the platform

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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 -**

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

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

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

**\* \*\*Test Case Title:\*\* Verify that users receive notifications for likes**

\* \*\*Test Case Description:\*\* This test case verifies that users receive timely notifications when other users like their posts/comments/videos.

\* \*\*Test Data:\*\* User profile, post/comment/video with engagement, notification settings activated

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

- Create a post/comment/video.
- Engage with the post/comment/video by liking it.
- Verify a notification alert appears on the user's device.
- Click the notification and confirm it leads to the relevant post/comment/video.

\* \*\*Expected Result:\*\* The user receives a timely notification for the like and it highlights the post/comment/video in the notification count.

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

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

\* \*\*Test Case Title:\*\* Verify that users receive notifications for comments

\* \*\*Test Case Description:\*\* This test case verifies that users receive notifications when other users comment on their posts/comments/videos.

\* \*\*Test Data:\*\* User profile, post/comment/video, comment/reply with text

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

- Create a post/comment/video.
- Have another user comment on the post/comment/video.
- Verify a notification alert appears on the user's device.
- Click the notification and confirm it displays the comment text.

\* \*\*Expected Result:\*\* The user receives a timely notification for the comment and the comment content is displayed in the notification.

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

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

**\* \*\*Test Case Title:\*\*** Verify that users receive notifications for mentions

**\* \*\*Test Case Description:\*\*** This test case verifies that users receive notifications when they are explicitly mentioned in posts/comments/messages.

**\* \*\*Test Data:\*\*** User profile, post/comment/message containing mention, notification settings activated

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

- Create a post/comment/message that explicitly mentions the user.
- Verify a notification alert appears on the user's device.
- Click the notification and confirm it highlights the mention in the post/comment/message.

**\* \*\*Expected Result:\*\*** The user receives a timely notification for the mention and the relevant part of the post/comment/message is highlighted.

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

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

**\* \*\*Test Case Title:\*\*** Verify notification preferences can be customized

**\* \*\*Test Case Description:\*\*** This test case verifies that users can configure notification preferences for individual features.

**\* \*\*Test Data:\*\*** User profile, notification settings access

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

- Navigate to notification settings page.
- Modify notification preferences for specific features.
- Verify changes are reflected in the notification preferences list.

\* \*\*Expected Result:\*\* Users can customize their notification preferences for different features.

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

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

\* \*\*Test Case Title:\*\* Verify that notifications include a link to the relevant activity

\* \*\*Test Case Description:\*\* This test case verifies that notifications include a link that directly opens the relevant activity.

\* \*\*Test Data:\*\* User profile, post/comment/message

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

- Generate a notification for a specific activity.
- Click the notification.
- Verify the user is redirected to the appropriate post/comment/message.

\* \*\*Expected Result:\*\* The notification contains a link that leads directly to the relevant activity.

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**Data - 7**

**Project name -**

Social Media Platform

**Project description -**

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

**Feature name -**

## Search Functionality

### Feature description -

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

### Userstory title -

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

### Acceptance criteria -

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

### Generated Test Cases:

#### ## Test Cases for Search Functionality

**\*\*Test Case ID:\*\*** TC-SM-SRCH-01

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

**\*\*Test Case Description:\*\*** This test case verifies that users can input keywords or hashtags into the search bar and receive relevant results.

**\*\*Test Suite:\*\*** Functional Testing

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

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

- User logged into the platform
- Search functionality is available

**\*\*Test Data:\*\*** "Social Media", "#MarketingTips"

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

1. Navigate to the search bar.

2. Input a keyword or hashtag.
3. Verify that the search results are displayed.
4. Verify that the results are relevant to the search query.

**\*\*Expected Result:\*\*** Search results include posts, profiles, and topics related to the keyword or hashtag.

**\*\*Test Case ID:\*\*** TC-SM-SRCH-02

**\*\*Test Case Title:\*\*** Verify that search results include profiles, posts, and topics

**\*\*Test Case Description:\*\*** This test case verifies that the search functionality includes results from various content types, including profiles, posts, and topics.

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

1. Search for a relevant keyword or hashtag.
2. Verify that the results list includes profile results.
3. Verify that the results list includes post results.
4. Verify that the results list includes topic results.

**\*\*Expected Result:\*\*** Search results include a mix of profiles, posts, and topics relevant to the search query.

**\*\*Test Case ID:\*\*** TC-SM-SRCH-03

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

**\*\*Test Case Description:\*\*** This test case verifies that search results are displayed in descending order of relevance to the search query.

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

1. Search for a popular keyword or hashtag.
2. Verify that the most relevant results appear at the top of the results list.
3. Verify that less relevant results appear further down the list.

**\*\*Expected Result:\*\*** Search results are displayed in order of relevance to the search query.

**\*\*Continue creating additional test cases covering the remaining acceptance criteria, including:\*\***

- Filter results by content type.
- Suggestions appear as the user types.
- Search functionality handles special characters and typos gracefully.
- Performance of the search functionality under high load.
- Error handling for invalid search queries.

**\*\*Note:\*\*** Each test case should be documented using the provided Test Case Creation Template for clarity and consistency.

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## **Data - 8**

### **Project name -**

Social Media Platform

### **Project description -**

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

### **Feature name -**

Hashtags and Tagging

### **Feature description -**

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

### **Userstory title -**



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

### **Acceptance criteria -**

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

### **Generated Test Cases:**

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

**\*\*Test Case 1:\*\*** Verify that users can add hashtags to their posts

**\*\*Test Case ID:\*\*** SM-HashTag-01

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

**\*\*Test Suite:\*\*** Feature Testing

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

**\*\*Preconditions:\*\*** User has logged into the platform and is composing a post.

**\*\*Test Data:\*\*** #SocialMediaPlatform #Testing #QualityAssurance

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

- Enter text into the post content area.
- Enter relevant hashtags separated by spaces.
- Verify that the hashtags are correctly displayed after posting.

**\*\*Expected Result:\*\*** Hashtags are displayed alongside the post content.

**\*\*Test Case 2:\*\*** Verify that users can tag other profiles, brands, or locations

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

**\*\*Test Case Description:\*\*** This test case verifies that users can tag other platform users, brands, or locations in their posts.

**\*\*Test Suite:\*\*** Feature Testing

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

**\*\*Preconditions:\*\*** User has identified a target user/brand/location.

**\*\*Test Data:\*\*** @JohnDoe, @SocialMediaPlatform, #LocationTag

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

- Compose a post.
- Select the "Tag" option and choose a user, brand, or location from the suggestions.
- Verify that the tag is added to the post and displays correctly.

**\*\*Expected Result:\*\*** The tagged user/brand/location is displayed in the post.

**\*\*Test Case 3:\*\*** Verify that hashtags and tags are clickable and lead to related content

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

**\*\*Test Case Description:\*\*** This test case verifies that clicking on a hashtag or tag leads to relevant content related to that hashtag/tag.

**\*\*Test Suite:\*\*** Feature Testing

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

**\*\*Preconditions:\*\*** User has identified a hashtag or tag within a post.

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

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

- Click on a hashtag or tag within a post.

- Verify that the user is redirected to a page displaying relevant content related to the hashtag/tag.

**\*\*Expected Result:\*\*** The user is directed to a page with content related to the clicked hashtag/tag.

**\*\*Test Case 4:\*\*** Verify that users can search for content using hashtags

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

**\*\*Test Case Description:\*\*** This test case verifies that users can search for content using relevant hashtags.

**\*\*Test Suite:\*\*** Feature Testing

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

**\*\*Preconditions:\*\*** User is on the search page.

**\*\*Test Data:\*\*** #SocialMediaPlatform

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

- Enter a hashtag into the search bar.

- Verify that results containing the searched hashtag are displayed.

**\*\*Expected Result:\*\*** Search results display content associated with the hashtag.

**\*\*Test Case 5:\*\*** Verify that the system suggests popular hashtags as users type

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

**\*\*Test Case Description:\*\*** This test case verifies that the system suggests popular hashtags as the user types into the hashtag input field.

**\*\*Test Suite:\*\*** Feature Testing

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

**\*\*Preconditions:\*\*** User is composing a post and has entered some text.

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

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

- Enter text into the post content area.

- Verify that the suggestions list displays relevant and popular hashtags related to the typed text.

**\*\*Expected Result:\*\*** The suggestion list provides users with popular hashtags related to their input.

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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:\*\*** Verify that users can react to posts with a variety of emojis.

**\*\*Test Case ID:\*\*** SM-Emo-01

**\*\*Test Case Description:\*\*** This test case verifies that users can successfully select and apply various emojis to their reactions on posts.

**\*\*Test Data:\*\*** Various emojis covering diverse emotions.

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

- Log in as a user.
- Create or open a post.
- Select an emoji from the reaction icon list.
- Verify that the chosen emoji is displayed on the post.

**\*\*Test Case 2:\*\*** Verify that emojis can be used in comments and messages.

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

**\*\*Test Case Description:\*\*** This test case ensures that users can add emojis to comments and private messages.

**\*\*Test Data:\*\*** Various emojis covering diverse emotions.

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

- Create a comment or private message.

- Select an emoji from the available list.
- Verify that the chosen emoji is displayed within the comment/message.

**\*\*Test Case 3:\*\*** Verify that users can see a count of reactions on posts.

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

**\*\*Test Case Description:\*\*** This test case verifies that the platform displays the total number of reactions for each post.

**\*\*Test Data:\*\*** Existing post with various reactions.

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

- Open a post.
- Verify that the count of reactions is displayed next to the reaction icons.

**\*\*Test Case 4:\*\*** Verify that the platform supports a wide range of emojis.

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

**\*\*Test Case Description:\*\*** This test case ensures that the platform supports a diverse range of emojis in accordance with industry standards.

**\*\*Test Data:\*\*** Extensive list of Unicode emojis.

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

- Select different emojis from the reaction list.
- Verify that all selected emojis are displayed correctly.

**\*\*Test Case 5:\*\*** Verify that users can remove or change their reactions.

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

**\*\*Test Case Description:\*\*** This test case verifies that users can modify or delete their reactions after posting.

**\*\*Test Data:\*\*** Existing post with various reactions.

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

- Select a reaction from a post.
- Choose the "Remove Reaction" option.
- Verify that the reaction is removed.

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## **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:**

### **## Test Cases for Live Streaming Feature**

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

**\*\*Test Case Description:\*\*** This test case verifies that users can initiate a live stream from the mobile application.

**\*\*Test Data:\*\*** User logged in, desired stream title

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

- Navigate to the Live Streaming page.
- Enter a live stream title.
- Click the "Start Stream" button.
- Verify the live stream is active and the "Stop Stream" button is displayed.

**\*\*Expected Result:\*\*** The live stream starts successfully and the "Stop Stream" button is displayed.

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

**\*\*Test Case Description:\*\*** This test case verifies if users can restrict their live stream to their followers only.

**\*\*Test Data:\*\*** User logged in, list of followers



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

- Create a live stream.
- Select "Limit to Followers" option from the visibility settings.
- Join the live stream as a follower.
- Verify only followers can view the live stream.

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

**\*\*Test Case 3:\*\*** Verify viewers can interact with the streamer through comments and reactions.

**\*\*Test Case Description:\*\*** This test case verifies that viewers can interact with the streamer through comments and reactions during a live stream.

**\*\*Test Data:\*\*** User logged in, live stream available

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

- Join a live stream.
- Compose and submit a comment.
- Send a reaction (like, heart, thumbs up, thumbs down).
- Verify the comment and reactions are displayed on the live stream.

**\*\*Expected Result:\*\*** Comments and reactions are visible to the streamer and other viewers during the live stream.

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

**\*\*Test Case Description:\*\*** This test case verifies that the live stream displays the number of viewers and shows the live comments during the broadcast.

**\*\*Test Data:\*\*** User logged in, live stream available

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

- Join a live stream.
- Verify the number of viewers displayed on the screen.
- Send a live comment.
- Verify the comment appears beneath the live stream.

**\*\*Expected Result:\*\*** The live stream displays the number of viewers and showcases the live comments.

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

**\*\*Test Case Description:\*\*** This test case verifies that users can save the live stream to watch later.

**\*\*Test Data:\*\*** User logged in, live stream available

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

- Join a live stream.
- Click the "Save Stream" button.
- Verify the saved stream is accessible from the "Saved Streams" section.

**\*\*Expected Result:\*\*** The live stream is saved and can be viewed later from the Saved Streams section.

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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:**

## Social Media Platform - Stories Feature Test Cases

**\*\*Test Case 1: Share Photo Story\*\***

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

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

**\*\*Test Case Description:\*\* This test case verifies that users can successfully share photos as stories and that the photos are displayed correctly on the news feed.**

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

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

**\*\*Preconditions:\*\* User logged in, has uploaded photos to device**

**\*\*Test Data:\*\* Selected photo file**

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

- Navigate to stories section
- Click "Share photo story" button
- Select a photo from device storage
- Verify that the photo is uploaded and displayed in the stories timeline

**\*\*Expected Result:\*\* Photo story is published successfully**

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

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

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

**\*\*Test Case 2: Share Video Story\*\***

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

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

**\*\*Test Case Description:\*\* This test case verifies that users can successfully share videos as stories and that the videos are playable on the news feed.**

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

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

**\*\*Preconditions:\*\* User logged in, has recorded or uploaded videos**

**\*\*Test Data:\*\* Selected video file**

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

- Navigate to stories section
- Click "Share video story" button
- Select a video from device storage
- Verify that the video is uploaded and displayed in the stories timeline

**\*\*Expected Result:\*\* Video story is published successfully**

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

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

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

**\*\*Test Case 3: Share Text Story\*\***

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

**\*\*Test Case Title:\*\* Verify that users can create stories with text overlays**

**\*\*Test Case Description:\*\* This test case verifies that users can add text captions to their stories.**

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

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

**\*\*Preconditions:\*\* User logged in**

**\*\*Test Data:\*\* Text string**

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

- Navigate to stories section
- Click "Share story" button
- Type text in the text field

- Verify that the text is displayed on the story

**\*\*Expected Result:\*\*** Text is published as part of the story

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

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

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

**\*\*Test Case 4: Story Visibility\*\***

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

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

**\*\*Test Case Description:\*\*** This test case verifies that stories automatically expire and become invisible after 24 hours.

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

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

**\*\*Preconditions:\*\*** User has uploaded stories

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

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

- Upload multiple stories with different expirations times
- Monitor the stories timeline over 24 hours
- Verify that stories expire and become invisible after 24 hours

**\*\*Expected Result:\*\*** Stories disappear after 24 hours

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

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

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

**\*\*Test Case 5: Privacy Settings\*\***

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

**\*\*Test Case Title:\*\* Verify that users can control who can see their stories**

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

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

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

**\*\*Preconditions:\*\* User logged in**

**\*\*Test Data:\*\* List of followers**

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

- Share a story with "Public" visibility
- Share a story with selected followers
- Verify that only authorized users can view the stories

**\*\*Expected Result:\*\* Stories are shared with the intended audience**

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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:

## Social Media Platform - Analytics and Insights Test Cases

**\*\*Test Case 1:\*\*** Verify that users can view data on follower demographics.

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

**\*\*Test Case Description:\*\*** This test case verifies the functionality of fetching and displaying follower demographics, including age range, gender, location, and other relevant data.

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

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



- Log in to the platform with a user account.
- Navigate to the "Analytics" section.
- Verify that the "Follower Demographics" report is available.
- Click on the report and confirm that follower data is displayed.

**\*\*Expected Result:\*\*** The follower demographics report is populated with accurate and relevant data.

**\*\*Test Case 2:\*\*** Verify that post reach and engagement metrics are available.

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

**\*\*Test Case Description:\*\*** This test case verifies the availability of metrics tracking post reach, engagement, and impressions.

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

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

- Create a post on the platform.
- Navigate to the "Analytics" section.
- Confirm that the "Content Insights" section includes data on reach, engagement, and impressions.

**\*\*Expected Result:\*\*** The content insights section displays detailed data for the recently created post.

**\*\*Test Case 3:\*\*** Verify that users can track audience growth trends.

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

**\*\*Test Case Description:\*\*** This test case verifies the functionality of tracking and visualizing audience growth over time.

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

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

- Navigate to the "Analytics" section.
- Select the "Audience Growth" report.
- Verify that the graph displays audience growth data over the selected time period.

**\*\*Expected Result:\*\*** The audience growth report shows a clear trend of follower growth over time.

**\*\*Test Case 4:\*\*** Verify that analytics are displayed in a user-friendly format.

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

**\*\*Test Case Description:\*\*** This test case verifies the readability and usability of the analytics dashboard.

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

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

- Navigate to the "Analytics" section.
- Review the layout and presentation of the analytics dashboard.
- Ensure that the data is easily understood and readily accessible.

**\*\*Expected Result:\*\*** The analytics dashboard is well-organized and presents data in a clear and concise manner.

**\*\*Test Case 5:\*\*** Verify that data can be filtered by time range and content type.

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

**\*\*Test Case Description:\*\*** This test case verifies the ability to filter analytics data by specific time ranges and content types.

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

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

- Select a specific time range from the "Time Range" filter.
- Choose a content type from the "Content Type" filter.
- Confirm that the analytics data is filtered based on the selected criteria.

**\*\*Expected Result:\*\*** The filtered data shows only the relevant data within 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

**\*\*1. Verify that a user can create an event\*\***

**\*\*Test Case ID:\*\* EVT-001**

**\*\*Test Case Description:\*\*** This test case verifies that a user can successfully create an event with basic information (title, date, time, location).

**\*\*Test Data:\*\*** Title: "Test Event", Date: 2023-10-27, Time: 19:00, Location: Office 1

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

- Login as a user.
- Navigate to the "Events" section.
- Click on "Create Event".
- Enter event details as above.
- Click "Create Event".

**\*\*Expected Result:\*\*** The event is successfully created and displayed in the "Events" list.

**\*\*2. Verify that a user can join an existing event\*\***

**\*\*Test Case ID:\*\*** EVT-002

**\*\*Test Case Description:\*\*** This test case verifies that a user can join an existing event and receive notifications about event updates.

**\*\*Test Data:\*\*** Event ID: 123

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

- Navigate to the "Events" section.
- Select an existing event.
- Click "Join Event".
- Verify the user is added to the list of attendees.

**\*\*Expected Result:\*\*** The user receives notification about event updates and can participate in discussions.

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

**\*\*Test Case ID:\*\*** EVT-003

**\*\*Test Case Description:\*\*** This test case verifies that event details displayed on the platform include date,

time, location, and description.

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

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

- Navigate to the "Events" section.
- Select an existing event.
- Verify that the event details page displays the event date, time, location, and description.

**\*\*Expected Result:\*\*** The event details are accurate and complete.

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

**\*\*Test Case ID:\*\*** EVT-004

**\*\*Test Case Description:\*\*** This test case verifies that users can RSVP to events and view a list of attendees.

**\*\*Test Data:\*\*** Event ID: 456

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

- Navigate to the "Events" section.
- Select an existing event.
- Click "RSVP".
- Verify the user's name is added to the list of attendees.

**\*\*Expected Result:\*\*** The list of attendees displays correctly and the user's RSVP status is confirmed.

**\*\*5. Verify that creating an event with invalid data displays an error message\*\***

**\*\*Test Case ID:\*\*** EVT-005

**\*\*Test Case Description:\*\*** This test case verifies that creating an event with invalid data (missing fields, non-numeric values) triggers an appropriate error message.

**\*\*Test Data:\*\*** Title: "", Date: "abc", Time: "12:3a", Location: ""

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

- Navigate to the "Events" section.
- Click "Create Event".
- Enter invalid event details as above.

**\*\*Expected Result:\*\*** An appropriate error message is displayed indicating the required fields and data type restrictions.

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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 advertising revenue through the platform.

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

**\*\*Test Case Description:\*\*** This test case verifies that users can successfully apply for the advertising revenue program and receive payment settlements through the platform.

**\*\*Test Data:\*\*** Test user account, valid payment information.

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

- Navigate to the Monetization settings.
- Click on "Apply for Advertising Revenue."
- Enter required information and submit the application.
- Verify confirmation message and payment details.

**\*\*Test Case 2:\*\*** Verify that monetization includes sponsored content partnerships.

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



**\*\*Test Case Description:\*\*** This test case verifies that the platform offers sponsored content partnerships as a monetization option.

**\*\*Test Data:\*\*** Test user account, simulated brand campaign.

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

- Navigate to the Monetization settings.
- Check for the "Sponsored Content" option.
- Verify information on requirements and partnership details.

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

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

**\*\*Test Case Description:\*\*** This test case verifies that users can receive payments for their content directly through the platform.

**\*\*Test Data:\*\*** Test payment transaction, payment details.

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

- Create monetizable content.
- Submit monetization request.
- Review payment history and transaction details.

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

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

**\*\*Test Case Description:\*\*** This test case verifies that the platform generates detailed reports on earnings and transactions.

**\*\*Test Data:\*\*** Test user account, specified date range.

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

- Navigate to the Monetization earnings section.
- Select a date range for report generation.
- Review detailed breakdown of earnings and transactions.

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

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

**\*\*Test Case Description:\*\*** This test case verifies that the platform clearly outlines eligibility criteria for monetization programs.

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

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

- Navigate to the Monetization guidelines section.
- Review eligibility criteria for various monetization options.

- Verify clarity and completeness of information provided.

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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:**

## ## Test Cases for Explore or Discover Tab

**\*\*Test Case 1:\*\*** Verify that the Explore tab displays trending and popular content

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

**\*\*Test Case Description:\*\*** This test case verifies that the Explore tab showcases content categorized as trending or popular based on user engagement, popularity, or platform algorithms.

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

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

1. Navigate to the Explore tab.
2. Verify presence of content categorized as trending or popular.
3. Check for diverse content types (posts, videos, images).

**\*\*Expected Result:\*\*** The Explore tab displays a list of trending content.

**\*\*Test Case 2:\*\*** Verify that personalized content recommendations are provided

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

**\*\*Test Case Description:\*\*** This test case ensures that the Explore tab offers personalized content recommendations based on user interests and engagement history.

**\*\*Test Data:\*\*** User profile with saved interests and engagement data

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

1. Log in with a user account with saved interests.
2. Navigate to the Explore tab.
3. Observe personalized content recommendations.

**\*\*Expected Result:\*\*** The explore tab displays content tailored to the user's interests and preferences.

**\*\*Test Case 3:\*\*** Verify that content can be filtered by category or topic

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

**\*\*Test Case Description:\*\*** This test case verifies that users can filter content displayed on the Explore tab by category or topic.

**\*\*Test Data:\*\*** "Travel" category

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

1. Navigate to the Explore tab.
2. Click on the "Travel" category filter.
3. Verify that only content related to travel appears.

**\*\*Expected Result:\*\*** The Explore tab filters content to the specified category or topic.

**\*\*Test Case 4:\*\*** Verify that the Explore tab updates regularly with new content

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

**\*\*Test Case Description:\*\*** This test case confirms that the Explore tab automatically updates with new content regularly.

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

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

1. Navigate to the Explore tab.
2. Refresh the page periodically.
3. Observe new content appearing on the tab over time.

**\*\*Expected Result:\*\*** The Explore tab updates with fresh content periodically.

**\*\*Test Case 5:\*\*** Verify that users can save or follow content from the Explore tab

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

**\*\*Test Case Description:\*\*** This test case ensures that users can save or follow content discovered through the Explore tab.

**\*\*Test Data:\*\*** Specific post or video

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

- 1. Navigate to the Explore tab.
- 2. Select a post or video to save or follow.
- 3. Verify that the saved/followed content is reflected in the user's saved or follow lists.

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

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**Data - 16**

**Project name -**

Social Media Platform

**Project description -**

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

**Feature name -**

Accessibility Features

**Feature description -**

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

options, and adjustable font sizes, enhancing usability and accessibility for all users.

**Userstory title -**

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

**Acceptance criteria -**

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

**Generated Test Cases:**

## Test Cases for Accessibility Features

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

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

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

**\*\*Test Case Description:\*\*** Test that when an image is uploaded or displayed on the platform, an appropriate and descriptive alt text is automatically generated and displayed in alternative text viewers or screen readers.

**\*\*Test Data:\*\*** Various image types and file sizes.

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

- 1. Upload an image to the platform.
- 2. Verify that an alt text attribute is displayed alongside the image.
- 3. Use a screen reader to ensure the alt text is read correctly.

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

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

**\*\*Test Case Title:\*\*** Verify screen reader compatibility.

**\*\*Test Case Description:\*\*** Test that the platform is compatible with major screen readers and that key features are navigatable and understandable for visually impaired users.

**\*\*Test Data:\*\*** NVDA, JAWS, VoiceOver.

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

1. Use different screen readers to access the platform.
2. Verify that all essential interface elements are announced correctly.
3. Test navigation menus, content accessibility, and form usability.

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

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

**\*\*Test Case Title:\*\*** Verify that keyboard shortcuts can be used for navigation.

**\*\*Test Case Description:\*\*** Test that users can navigate throughout the platform using only keyboard input, without relying on a mouse or trackpad.

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

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

1. Identify keyboard shortcuts for commonly used actions.
2. Verify that shortcuts work as expected.
3. Test accessibility across different browsers and devices.

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

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

**\*\*Test Case Title:\*\*** Verify color contrast and font size options are provided.



**\*\*Test Case Description:\*\*** Test that the platform offers adjustable color contrast options and font sizes to cater to users with visual impairments.

**\*\*Test Data:\*\*** Various color combinations, font sizes.

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

1. Access color contrast and font size settings.
2. Test various combinations of color contrast and font sizes.
3. Verify that adjusted settings are applied correctly.

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

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

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

**\*\*Test Case Description:\*\*** Test that the platform provides comprehensive and easily accessible documentation on its accessibility features.

**\*\*Test Data:\*\*** Platform documentation.

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

1. Review the platform's documentation related to accessibility.
2. Verify that the documentation clearly explains the available accessibility features.
3. Test that the documentation is accessible to users with disabilities.

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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

**\*\*1. Verify that content moderation algorithms filter inappropriate content.\*\***

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

**\*\*Test Case Title:\*\* Content moderation algorithms filter out spam comments.**

**\*\*Test Case Description:\*\* Test that comments containing promotional or spammy content are automatically filtered and not displayed on the platform.**

**\*\*Test Data:\*\*** Sample comments containing spam, promotional text.

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

- Create a user account.
- Post a comment containing spam content.
- Verify that the comment is not displayed on the feed.
- Check notification logs for confirmation of filtering.

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

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

**\*\*Test Case Title:\*\*** Reporting system allows users to report harmful or inappropriate content.

**\*\*Test Case Description:\*\*** Test that users can report content that violates community guidelines.

**\*\*Test Data:\*\*** Sample posts containing offensive language, hate speech.

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

- Locate and report harmful content.
- Verify that a report is submitted to the moderation team.
- Check report history and confirmation email.

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

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

**\*\*Test Case Title:\*\*** Users can block other users from interacting with them.

**\*\*Test Case Description:\*\*** Test that users can block other users from sending them messages and commenting on their posts.

**\*\*Test Data:\*\*** Existing user accounts of potential blockees.

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

- Identify a user to block.

- Block the user through user settings.
- Attempt to send a message or comment to the blocked user.
- Verify that interaction is blocked.

**\*\*4. Verify that comment filters prevent offensive language.\*\***

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

**\*\*Test Case Title:\*\* Comment filtering algorithm effectively blocks offensive words.**

**\*\*Test Case Description:\*\* Test that comments containing offensive language are automatically filtered out.**

**\*\*Test Data:\*\* Sample comments containing offensive language.**

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

- Post comments containing offensive language.
- Verify that the comments are not displayed on the feed.
- Check notification logs for confirmation of filtering.

**\*\*5. Verify that community guidelines are enforced consistently.\*\***

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

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

**\*\*Test Case Description:\*\* Test that violations of community guidelines trigger appropriate actions.**

**\*\*Test Data:\*\* Sample content that violates community guidelines.**

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

- Create content that violates community guidelines.
- Report the violation to the moderation team.
- Verify that appropriate action is taken, such as post removal or account suspension.

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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:**

## Social Media Platform - Multi-Language Support Test Cases

**\*\*Test Case 1: Select Preferred Interface Language\*\***

**\*\*Test Case ID:\*\* SM-ML-01**

**\*\*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 list and the interface elements are translated accordingly.

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

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

- Log in to the platform
- Go to user settings
- Select a different language from the "Language" dropdown
- Verify that the interface elements are displayed in the chosen language

**\*\*Expected Result:\*\*** The interface elements should be displayed in the selected language.

**\*\*Test Case 2: Content Translation Feature\*\***

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

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

**\*\*Test Case Description:\*\*** This test case verifies that the platform automatically translates user-generated content (posts and messages) into different languages.

**\*\*Test Data:\*\*** Test post in English and request translation to Spanish

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

- Create a post in English
- Select the desired translation language (Spanish)
- Verify that the post is translated correctly to Spanish

**\*\*Expected Result:\*\*** The post should be translated into the selected language without errors.

**\*\*Test Case 3: Language Preference Saves and Applied\*\***

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

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

**\*\*Test Case Description:\*\*** This test case verifies that user-selected language preferences are saved in the system and applied consistently across subsequent sessions.

**\*\*Test Data:\*\*** Spanish

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

- Log in to the platform
- Go to user settings
- Select Spanish as the preferred language
- Log out and log back in
- Verify that the interface elements are displayed in Spanish

**\*\*Expected Result:\*\*** The interface elements should be displayed in the user's preferred language (Spanish).

**\*\*Test Case 4: Wide Range of Supported Languages\*\***

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

**\*\*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 comprehensive selection of languages, including both common and less popular ones.

**\*\*Test Data:\*\*** Arabic, Chinese, Portuguese

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

- Explore the list of available languages
- Verify that a variety of languages are supported

**\*\*Expected Result:\*\*** The platform should support a wide range of languages, accommodating diverse user preferences.

**\*\*Test Case 5: Negative Test: Invalid Language Selection\*\***

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

**\*\*Test Case Title:\*\*** Verify negative handling of invalid language selection

**\*\*Test Case Description:\*\*** This test case verifies that the system appropriately handles invalid or unsupported language selections.

**\*\*Test Data:\*\*** Invalid language code

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

- Enter an invalid language code in the language selection field
- Observe the system response

**\*\*Expected Result:\*\*** An appropriate error message should be displayed indicating that the entered language is not supported.

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**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 1:\*\*** Verify that users can successfully link accounts with other social media platforms.

**\*\*Test Case ID:\*\*** SM-CP-01

**\*\*Test Case Title:\*\*** Verify account Linking with External Platforms

**\*\*Test Case Description:\*\*** This test case verifies that users can link their accounts with popular social media

platforms and other services through single sign-on (SSO) functionality.

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

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

- Login to the Social Media Platform.
- Navigate to the "Connect with other services" section.
- Select desired platform and login.
- Verify that the accounts are successfully linked.

**\*\*Expected Result:\*\*** Successful login and seamless account linkage.

**\*\*Test Case 2:\*\*** Verify that content can be cross-posted to other platforms.

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

**\*\*Test Case Title:\*\*** Verify Content Cross-Posting

**\*\*Test Case Description:\*\*** This test case verifies that users can seamlessly share posts, photos, videos, and other content to other connected platforms.

**\*\*Test Data:\*\*** Existing post on the platform

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

- Create or select an existing post.
- Choose the option to "Cross-post to other platforms."
- Select desired platforms.
- Verify that the content is successfully shared on the connected platforms.

**\*\*Expected Result:\*\*** Content is successfully shared across specified platforms.

**\*\*Test Case 3:\*\*** Verify that users can perform single sign-on (SSO) login.

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

**\*\*Test Case Title:\*\* Verify Single Sign-On Functionality**

**\*\*Test Case Description:\*\*** This test case verifies that users can login to the platform using their existing accounts on other social media platforms.

**\*\*Test Data:\*\*** Existing social media account credentials

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

- Visit the Social Media Platform login page.
- Click on the "Sign in with Facebook", "Sign in with Google", etc. button.
- Enter login credentials for the chosen platform.
- Verify successful login and access to the platform.

**\*\*Expected Result:\*\*** Successful login through SSO and access to the platform.

**\*\*Test Case 4:\*\*** Verify seamless integration with external media sources.

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

**\*\*Test Case Title:\*\* Verify External Media Integration**

**\*\*Test Case Description:\*\*** This test case verifies that users can pull content from external media sources and automatically populate it on the platform.

**\*\*Test Data:\*\*** Selected external media sources

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

- Choose "Connect to External Media Sources."
- Select desired sources.
- Verify that relevant content from those sources appears on the platform.

**\*\*Expected Result:\*\*** Successful integration and display of external content on the platform.

**\*\*Test Case 5:\*\*** Verify that users can seamlessly share platform content on other platforms.

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

**\*\*Test Case Title:\*\*** Verify Content Sharing Across Platforms

**\*\*Test Case Description:\*\*** This test case verifies that users can effortlessly share platform-generated content on other social networks.

**\*\*Test Data:\*\*** Existing post on the platform

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

- Select the option to "Share on other platforms."
- Choose desired platforms.
- Verify that the platform content is shared on the specified platforms.

**\*\*Expected Result:\*\*** Successful sharing of platform content on other platforms.

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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:**

**## Social Media Platform - Gamification & Rewards Test Cases**

**\*\*Test Case 1:\*\*** Verify that points are awarded for various activities.

**\* \*\*Test Data:\*\*** User creates a post, likes a post, comments on a post.

**\* \*\*Expected Result:\*\*** Points are awarded for each action and updated in the user's profile.

**\*\*Test Case 2:\*\*** Verify that badges are awarded for specific achievements.

**\* \*\*Test Data:\*\*** User earns 100 points, shares 5 posts, joins 3 communities.

**\* \*\*Expected Result:\*\*** Relevant badges are awarded to the user's profile.

**\*\*Test Case 3:\*\*** Verify that the leaderboard is updated correctly.

\* \*\*Test Data:\*\* 5 users engage in different activities with varying points.

\* \*\*Expected Result:\*\* The leaderboard reflects the users in correct order of points earned.

\*\*Test Case 4:\*\* Verify that challenges are assigned and rewards are earned.

\* \*\*Test Data:\*\* Available challenge with specific criteria.

\* \*\*Expected Result:\*\* User can complete the challenge and receive the assigned reward.

\*\*Test Case 5:\*\* Verify that users can view their progress and achievements.

\* \*\*Test Data:\*\* User's activity history and earned points.

\* \*\*Expected Result:\*\* Dedicated section displays user progress, achievements, and awarded badges.

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

- Test cases for edge cases: user with no activity, expired challenges, disabled features.
- Test cases for negative scenarios: unauthorized access to rewards, exceeding daily point limit, duplicate achievements.
- Test cases for specific platform functionalities: points awarded for collaborative features, challenges applicable to different content types, personalized rewards based on user demographics.

\*\*Test Case Approach:\*\*

- Positive testing: Verify core functionality.
- Negative testing: Identify potential issues with authorization, error handling, and boundary conditions.
- Exploratory testing: Discover hidden features and potential usability problems.

#### **\*\*Test Case Prioritization:\*\***

- High: Critical functionality, major defects
- Medium: Core features, post-release enhancements
- Low: Cosmetic details, minor issues

#### **\*\*Quality Assurance Focus:\*\***

- Identifying potential defects early in the development cycle.
- Contributing to a high-quality software product by ensuring thorough testing and comprehensive coverage of requirements.

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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:**

### **## Task Creation Tool Test Cases**

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

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

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

**\*\*Test Case Description:\*\* Test that the system allows users to input a valid and valid title for a task.**

**\*\*Test Data:\*\* "Write a test case", "Complete project proposal", "Review documents"**

**\*\*Expected Result:\*\* The task is created with the entered title.**

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

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

**\*\*Test Case Title:\*\* Verify that tasks can be assigned to specific team members**



**\*\*Test Case Description:\*\*** Test that users can assign tasks to individual team members by selecting their names from a dropdown list.

**\*\*Test Data:\*\*** UserA, UserB, UserC

**\*\*Expected Result:\*\*** The assigned user receives notification and is associated with the task.

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

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

**\*\*Test Case Title:\*\*** Verify that the system saves and displays created tasks

**\*\*Test Case Description:\*\*** Test that after creating a task, it is saved in the system and displayed in the list of tasks.

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

**\*\*Expected Result:\*\*** The created task appears in the list of tasks and persists after browser refresh.

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

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

**\*\*Test Case Title:\*\*** Verify that the system validates required fields

**\*\*Test Case Description:\*\*** Test that the system flags required fields (title, due date, priority) when left empty during creation.

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

**\*\*Expected Result:\*\*** An error message is displayed highlighting the required fields.

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

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

**\*\*Test Case Title:\*\* Verify that users can edit task details after creation**

**\*\*Test Case Description:\*\* Test that users can update title, description, due date, and priority level of a created task.**

**\*\*Test Data:\*\* New title: "Update Task", New description: "Clarified instructions"**

**\*\*Expected Result:\*\* The updated task information is saved and reflected in the list of tasks.**

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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**

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

- Log in as a user.
- Create a new task.
- Click the "Assign to" dropdown and select a team member.
- Verify that the assigned team member receives a notification.

**\*\*Expected Result:\*\*** Task is successfully assigned to the selected team member.

**\*\*Test Case 2:\*\*** Verify that assigned tasks appear in the assignee's task list.

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

**\*\*Test Case Description:\*\*** Tests the visibility of assigned tasks in the assignee's task list.

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

- Assign a task to a team member.
- Log in as the assigned team member.
- Navigate to the task list.

- Verify that the assigned task is displayed in the list.

**\*\*Expected Result:\*\*** Assigned tasks are visible in the assignee's task list.

**\*\*Test Case 3:\*\*** Verify that tasks can be reassigned to different team members.

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

**\*\*Test Case Description:\*\*** Tests the ability to change the assigned team member for a task.

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

- Assign a task to a team member.
- Click the "Reassign" option.
- Select a different team member from the dropdown.
- Verify that the task is reassigned to the new team member.

**\*\*Expected Result:\*\*** Task is successfully reassigned to the new team member.

**\*\*Test Case 4:\*\*** Verify that the system tracks the task assignment history.

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

**\*\*Test Case Description:\*\*** Tests the persistence of task assignments in the system.

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

- Assign a task to a team member.
- Navigate to the task history page.
- Verify that the assigned task is listed in the history.

**\*\*Expected Result:\*\*** Task assignment history is recorded and accessible.

**\*\*Test Case 5:\*\*** Verify that the system handles invalid or incomplete assignments.

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

**\*\*Test Case Description:\*\*** Tests the handling of invalid input during task assignment.

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

- Click the "Assign to" dropdown but leave it empty.
- Assign a task to an invalid user (e.g., non-existent email address).
- Attempt to assign a task without providing any team member.

**\*\*Expected Result:\*\*** Appropriate error messages are displayed for each invalid input scenario.

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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 Data: Deadline for a high-priority task, description of the task.

\* Test Steps:

- Create a new task with a deadline.
- Go to settings and enable reminders.
- Configure reminder frequency and delivery method.

\* Expected Result: Reminder notifications are sent for the upcoming deadline.

**\*\*Test Case 2:\*\*** Verify that reminders can be customized by urgency level.

\* Test Data: Urgent and non-urgent tasks with different deadlines.

\* Test Steps:

- Create multiple tasks with different deadlines and urgency levels.
- Review reminder settings for different urgency tiers.

\* Expected Result: Reminders for higher urgency tasks are sent more frequently.

**\*\*Test Case 3:\*\*** Verify that the system sends notifications for upcoming deadlines.

\* Test Data: Existing task with a set deadline.

\* Test Steps:

- Create a task with a specific deadline.
- Monitor system notifications leading up to the deadline.

\* Expected Result: Timely notifications are sent for upcoming deadlines.

**\*\*Test Case 4:\*\*** Verify that users can choose the delivery method for reminders.

\* Test Data: Email and in-app notifications.

\* Test Steps:

- Configure reminder delivery method in user settings.
- Create a task and set a deadline.

\* Expected Result: Reminders are delivered according to the selected method.

**\*\*Test Case 5:\*\*** Verify that reminder settings can be adjusted or disabled.

\* Test Data: Existing reminder settings.

\* Test Steps:

- Access reminder settings and modify frequency or delivery method.
- Disable reminder notifications entirely.

\* Expected Result: Reminder configuration and delivery can be adjusted or disabled as needed.

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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 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

**\*\*Test Case 1: Verify that tasks can be assigned different priority levels\*\***

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

**\* \*\*Test Case Title:\*\* Verify that tasks can be assigned different priority levels**

**\* \*\*Test Case Description:\*\* This test case verifies that users can assign priority levels (High, Medium, Low)**



to tasks.

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

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

1. Create a new task.
2. Select a priority level from the dropdown menu.
3. Verify that the priority level is correctly reflected in the task list.

\* \*\*Expected Result:\*\* The task is assigned the selected priority level.

\*\*Test Case 2: Verify that tasks can be sorted based on their priority levels\*\*

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

\* \*\*Test Case Title:\*\* Verify that tasks can be sorted based on their priority levels

\* \*\*Test Case Description:\*\* This test case verifies that tasks can be sorted in ascending order of priority level.

\* \*\*Test Data:\*\* Existing tasks with different priority levels.

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

1. Sort the task list in ascending order of priority.
2. Verify that the tasks are sorted correctly, with high-priority tasks appearing first.

\* \*\*Expected Result:\*\* The tasks are sorted in ascending order of priority level.

\*\*Test Case 3: Verify that users can change the priority level of a task\*\*

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

\* \*\*Test Case Title:\*\* Verify that users can change the priority level of a task

\* \*\*Test Case Description:\*\* This test case verifies that users can change the priority level of an existing task.

\* \*\*Test Data:\*\* Existing task with a specific priority level.

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

1. Select a task.
2. Click on the "Change Priority" button.
3. Select a new priority level from the dropdown menu.
4. Verify that the priority level of the task has been updated.

\* \*\*Expected Result:\*\* The priority level of the task is changed to the selected level.

**\*\*Test Case 4: Verify that the system visually distinguishes tasks based on priority\*\***

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

\* \*\*Test Case Title:\*\* Verify that the system visually distinguishes tasks based on priority

\* \*\*Test Case Description:\*\* This test case verifies that the system visually differentiates tasks based on their priority levels.

\* \*\*Test Data:\*\* Existing tasks with different priority levels.

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

1. Sort the task list.
2. Verify that tasks with higher priority levels are visually emphasized.

\* \*\*Expected Result:\*\* Tasks with higher priority levels are visually distinct from tasks with lower priority levels.

**\*\*Test Case 5: Verify that tasks without a specified priority default to Medium\*\***

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

\* \*\*Test Case Title:\*\* Verify that tasks without a specified priority default to Medium

\* \*\*Test Case Description:\*\* This test case verifies that tasks that do not have a specified priority level default to "Medium."

\* \*\*Test Data:\*\* New task without a priority level assigned.

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

1. Create a new task without specifying a priority level.
2. Verify that the priority level of the task is set to "Medium."

\* \*\*Expected Result:\*\* The task is assigned a default priority of "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 ID:\*\* TC-1**

**\*\*Test Case Title:\*\* Verify that users can create subtasks under main tasks.**

**\*\*Test Case Description:\*\* This test case verifies if users can create subtasks directly under a main task and associate them with the correct parent task.**

**\*\*Test Data:\*\* Main task name, subtask title, due date.**

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

- Create a main task.
- Click on the "Create Subtask" button.
- Enter a title for the subtask.
- Set the due date.
- Assign the subtask to a user.

**\*\*Expected Result:\*\* The subtask is created and associated with the parent task.**

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

**\*\*Test Case Title:\*\* Verify that subtasks can have their own due dates and assignees.**

**\*\*Test Case Description:\*\* This test case verifies if subtasks can be assigned individual due dates and assignees.**

**\*\*Test Data:\*\* Main task name, subtask title, due date, assignee.**

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

- Create a main task.

- Create a subtask under the main task.
- Set a different due date for the subtask.
- Assign the subtask to a different user.

**\*\*Expected Result:\*\*** The subtask has the assigned due date and assignee.

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

**\*\*Test Case Title:\*\*** Verify that the system tracks the progress of each subtask.

**\*\*Test Case Description:\*\*** This test case verifies if the system tracks the completion status of each subtask and updates the main task accordingly.

**\*\*Test Data:\*\*** Main task name, subtask title.

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

- Create a main task with multiple subtasks.
- Mark a subtask as complete.
- Check the main task and confirm that the progress has increased.

**\*\*Expected Result:\*\*** The subtask is marked as complete and the main task progress reflects the completion.

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

**\*\*Test Case Title:\*\*** Verify that subtasks can be marked as complete independently of the main task.

**\*\*Test Case Description:\*\*** This test case verifies if subtasks can be marked as complete regardless of the main task completion.

**\*\*Test Data:\*\*** Main task name, subtask title.

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

- Create a main task with a subtask.
- Mark the subtask as complete.
- Check the main task and confirm that it is not marked as complete.

**\*\*Expected Result:\*\*** The subtask is marked as complete independently of the main task.

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

**\*\*Test Case Title:\*\*** Verify that dependencies between subtasks can be set.

**\*\*Test Case Description:\*\*** This test case verifies if users can set dependencies between subtasks, ensuring proper execution order.

**\*\*Test Data:\*\*** Main task name, subtask titles.

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

- Create a main task with two subtasks.
- Set dependency A depends on B.
- Execute the subtasks in order.

**\*\*Expected Result:\*\*** Subtask A executes only after Subtask B is completed.

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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: Valid Dependency Creation\*\***

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

\* \*\*Test Case Title:\*\* Verify that tasks can be assigned dependencies with valid data.

\* \*\*Test Case Description:\*\* This test case verifies the ability to set dependencies between tasks when all required fields are correctly filled.

\* \*\*Test Data:\*\* Two created tasks with unique names and dependencies specified in the "Depends On" field.

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

1. Create two tasks with valid names and descriptions.
2. Navigate to dependencies section of the first task.
3. Enter the name of the second task in the "Depends On" field.
4. Verify that the dependency is saved and displayed in the task details.

\* \*\*Expected Result:\*\* The dependency between the two tasks is created successfully.

## **\*\*Test Case 2: Invalid Dependency Creation - Missing Dependency\*\***

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

**\* \*\*Test Case Title:\*\*** Verify that an error message is displayed when creating a dependency with an invalid target task.

**\* \*\*Test Case Description:\*\*** This test case verifies the system's response when a dependency is attempted with a non-existent or unavailable task.

**\* \*\*Test Data:\*\*** A non-existent task name.

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

1. Create a task with a valid name and description.
2. Navigate to dependencies section of the created task.
3. Enter an invalid task name in the "Depends On" field.

**\* \*\*Expected Result:\*\*** An error message indicating that the target task is not found.

## **\*\*Test Case 3: Dependency Display\*\***

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

**\* \*\*Test Case Title:\*\*** Verify that the dependencies between tasks are displayed correctly.

**\* \*\*Test Case Description:\*\*** This test case verifies the accuracy of displayed dependencies between tasks in the task details.

**\* \*\*Test Data:\*\*** Two tasks with established dependencies.

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

1. Create two tasks with dependencies.
2. Navigate to the details of the first task.
3. Verify that the dependencies between tasks are listed under the "Dependencies" section.

**\* \*\*Expected Result:\*\*** The dependencies are listed in the order of their dependency.



#### **\*\*Test Case 4: Updating Dependencies\*\***

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

\* \*\*Test Case Title:\*\* Verify that dependencies can be updated and removed.

\* \*\*Test Case Description:\*\* This test case verifies the ability to modify existing dependencies between tasks.

\* \*\*Test Data:\*\* Two tasks with established dependencies.

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

1. Create two tasks with a dependency.
2. Navigate to the dependencies section of the first task.
3. Update the target dependency to another valid task.
4. Verify that the dependency is updated in the details of both tasks.

\* \*\*Expected Result:\*\* The dependency is successfully updated.

#### **\*\*Test Case 5: Dependency Alerting\*\***

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

\* \*\*Test Case Title:\*\* Verify that the system sends alerts when dependencies are due.

\* \*\*Test Case Description:\*\* This test case verifies the system's notification functionality for pending dependencies.

\* \*\*Test Data:\*\* Two tasks with established dependencies and defined deadlines.

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

1. Create two tasks with dependencies and set deadlines.
2. Approach the deadline of a dependent task without completing it.

\* \*\*Expected Result:\*\* An alert or notification is triggered indicating the dependency deadline is

approaching.

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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:**

## Task Commenting Test Cases

**\*\*Test Case 1:\*\*** Verify that users can successfully add comments to tasks.

**\*\*Test Case Description:\*\*** This test case verifies that users can input text, attachments, and links into the comment field and successfully save them to the associated task.

**\*\*Test Data:\*\*** "Test comment", document.pdf, link.jpg

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

- Create a new task.
- Navigate to the comment section.
- Enter textual comment, attach a file, and add a link.
- Click the "Comment" button.

**\*\*Expected Result:\*\*** The comment is saved to the task and displayed in chronological order.

**\*\*Test Case 2:\*\*** Verify that system notifications are triggered for new comments.

**\*\*Test Case Description:\*\*** This test case confirms that users receive notifications when new comments are added to a task.

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

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

- Create a task.
- Assign the task to another user.
- Comment on the task.

- Verify that the assigned user receives a notification.

**\*\*Test Case 3:\*\*** Verify that users can reply to comments.

**\*\*Test Case Description:\*\*** This test case checks that users can reply to existing comments with their own comments and attachments.

**\*\*Test Data:\*\*** "Reply to previous comment", reply.txt

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

- Add a comment to a task.
- Click the reply icon beneath the comment.
- Enter text, attach a file, and click "Reply".

**\*\*Expected Result:\*\*** The reply is added as a nested comment beneath the original comment.

**\*\*Test Case 4:\*\*** Verify that users can edit their comments.

**\*\*Test Case Description:\*\*** This test case assesses that users can modify previously added comments.

**\*\*Test Data:\*\*** "Updated comment", updated\_comment.docx

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

- Add a comment to a task.
- Click the edit icon beside the comment.

- Modify the comment text and attached files.
- Click "Update Comment".

**\*\*Expected Result:\*\*** The existing comment is updated with the new text and attachments.

**\*\*Test Case 5:\*\*** Verify that comments are displayed in chronological order.

**\*\*Test Case Description:\*\*** This test case verifies that comments are correctly ordered by their creation time.

**\*\*Test Data:\*\*** Multiple comments added at different timestamps

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

- Create multiple comments on a task.
- Verify that the comments appear in the order they were created.

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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 in Task Management Tool**

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

**\*\*Test Case Title:\*\* Verify that users can attach multiple files to a task.**

**\*\*Test Case Description:\*\* This test case verifies that users can attach more than one file to a task and that all attached files are successfully saved.**

**\*\*Test Data:\*\* 3 different document files.**

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

- Create a new task.
- Click "Attach Files" button.
- Select and attach multiple files.
- Verify that all selected files are listed under the "Attached Files" section.

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

**\*\*Test Case Title:\*\*** Verify that the system accepts various file types.

**\*\*Test Case Description:\*\*** This test case verifies that the system supports various file types, including documents, images, and links.

**\*\*Test Data:\*\*** Document, image file, website link.

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

- Create a new task.
- Click "Attach Files" button.
- Select and attach different file types.
- Verify that all attached files are supported and displayed correctly.

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

**\*\*Test Case Title:\*\*** Verify that users can view and download attachments.

**\*\*Test Case Description:\*\*** This test case verifies that users can view the list of attached files and download them individually.

**\*\*Test Data:\*\*** Multiple files previously attached to a task.

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

- Navigate to a previously created task with attached files.
- Verify that the list of attached files is displayed.
- Click on a file name to download it.
- Verify that the downloaded file is the correct file.

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

**\*\*Test Case Title:\*\*** Verify that the system limits the size of attachments.

**\*\*Test Case Description:\*\*** This test case verifies that the system limits the size of individual attachments to prevent data overload.

**\*\*Test Data:\*\*** Large file exceeding the allowed size.

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

- Create a new task.
- Click "Attach Files" button.
- Attempt to attach a file exceeding the allowed size.
- Verify that the attachment is rejected and an appropriate message is displayed.

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

**\*\*Test Case Title:\*\*** Verify that users can remove attachments if needed.

**\*\*Test Case Description:\*\*** This test case verifies that users can remove previously attached files from a task.

**\*\*Test Data:\*\*** Multiple files previously attached to a task.

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

- Navigate to a previously created task with attached files.
- Select the "Remove" button next to an attached file.
- Verify that the selected file is removed from the "Attached Files" section.

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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

**\*\*1. Verify that users can set tasks to recur at specified intervals\*\***

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

**\* \*\*Test Case Title:\*\* Setting daily recurring task**

**\* \*\*Test Case Description:\*\* Test the functionality of setting a task to recur daily and confirm that the created instances align with the specified interval.**

**\* \*\*Test Data:\*\* Task title, recurring interval (Daily)**

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

- Create a new task.
- Set the recurrence rule as "Daily."
- Specify the desired frequency.

- Save the task.
- Verify that the recurring instances appear in the task list.

\* \*\*Expected Result:\*\* Recurring instances are created and displayed correctly.

**\*\*2. Verify that the system automatically generates instances of recurring tasks\*\***

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

\* \*\*Test Case Title:\*\* Automatic instance creation

\* \*\*Test Case Description:\*\* Test that automatically generated instances of recurring tasks match the specified recurrence rule.

\* \*\*Test Data:\*\* Task title, recurring interval (Weekly)

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

- Create a recurring task with a weekly interval.
- Verify that the system automatically generates weekly instances of the task over time.
- Check that the created instances adhere to the specified recurrence rule.

\* \*\*Expected Result:\*\* Automatically generated instances align with the defined recurrence rule.

**\*\*3. Verify that users can modify the recurrence pattern\*\***

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

\* \*\*Test Case Title:\*\* Modifying recurring interval

\* \*\*Test Case Description:\*\* Test the ability to alter the recurrence pattern of an existing recurring task.

\* \*\*Test Data:\*\* Existing recurring task, new recurrence interval (Monthly)

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

- Create a recurring task with a daily interval.

- Select the task and modify the recurrence rule to "Monthly."
- Verify that the recurrence frequency in the task details is updated.

\* \*\*Expected Result:\*\* The recurrence pattern of the task is successfully altered.

\*\*4. Verify that the system sends notifications for upcoming instances of recurring tasks\*\*

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

\* \*\*Test Case Title:\*\* Notification for upcoming recurring tasks

\* \*\*Test Case Description:\*\* Test that the system sends timely notifications regarding upcoming instances of recurring tasks.

\* \*\*Test Data:\*\* Existing recurring task

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

- Create a recurring task with a specific deadline.
- Enable notification settings for recurring tasks.
- Confirm that reminder notifications are received before the deadline.

\* \*\*Expected Result:\*\* Users receive timely notifications for upcoming instances of recurring tasks.

\*\*5. Verify that users can view a list of all instances of a recurring task\*\*

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

\* \*\*Test Case Title:\*\* Viewing recurring task instances list

\* \*\*Test Case Description:\*\* Test the functionality of displaying a list of all created instances of a recurring task.

\* \*\*Test Data:\*\* Existing recurring task

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

- Create a recurring task.
- Navigate to the "Recurring Tasks" section.
- Confirm that the list displays all instances of the created recurring task.

**\*\*Expected Result:\*\*** The system displays a comprehensive list of all recurring task instances.

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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: Add valid tag to a task\*\***

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

\* **\*\*Test Case Title:\*\*** Verify that users can add valid tags to tasks

\* **\*\*Test Case Description:\*\*** This test case verifies that users can successfully add custom tags to tasks and that the tags are displayed correctly in the task list.

\* **\*\*Test Suite:\*\*** Functional Testing

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

\* **\*\*Preconditions:\*\*** User has created a task.

\* **\*\*Test Data:\*\*** "Priority", "Project Management"

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

1. Create a new task.
2. Click on the "Add Tag" button.
3. Enter a valid tag name.
4. Click "Save".

\* **\*\*Expected Result:\*\*** The tag is successfully added to the task and displayed in the task list.

**\*\*Test Case 2: Edit existing tag\*\***

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

\* **\*\*Test Case Title:\*\*** Verify that users can edit existing tags

\* **\*\*Test Case Description:\*\*** This test case verifies that users can modify the existing tags without creating duplicates.

\* **\*\*Test Suite:\*\*** Functional Testing

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

\* \*\*Preconditions:\*\* User has created a task with an existing tag.

\* \*\*Test Data:\*\* "Urgent", "Bug Fix"

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

1. Select a task with an existing tag.
2. Click on the "Edit Tag" button.
3. Modify the existing tag name.
4. Click "Save".

\* \*\*Expected Result:\*\* The tag name is updated and reflected in the task list.

**\*\*Test Case 3: Filter tasks by tag\*\***

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

\* \*\*Test Case Title:\*\* Verify that tasks can be filtered based on tags

\* \*\*Test Case Description:\*\* This test case verifies that users can filter tasks based on applied tags and labels.

\* \*\*Test Suite:\*\* Functional Testing

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

\* \*\*Preconditions:\*\* User has created tasks with different tags.

\* \*\*Test Data:\*\* "Prioritization", "Design Review"

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

1. Apply multiple tags to different tasks.
2. Use the filter bar to select a specific tag.

\* \*\*Expected Result:\*\* Only tasks associated with the selected tag are displayed.

**\*\*Test Case 4: Display tags prominently\*\***

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

\* \*\*Test Case Title:\*\* Verify that tags and labels are displayed prominently in the task list

\* \*\*Test Case Description:\*\* This test case verifies that tags and labels are visually emphasized in the task list for easy identification.

\* \*\*Test Suite:\*\* Visual Testing

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

\* \*\*Preconditions:\*\* User has created tasks with tags.

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

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

1. Navigate through the task list.

\* \*\*Expected Result:\*\* Tags and labels are displayed in a clear and visually distinct manner.

\*\*Test Case 5: Remove tag from task\*\*

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

\* \*\*Test Case Title:\*\* Verify that users can remove tags from tasks

\* \*\*Test Case Description:\*\* This test case verifies that users can remove tags from tasks and that the task list is updated accordingly.

\* \*\*Test Suite:\*\* Functional Testing

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

\* \*\*Preconditions:\*\* User has created a task with a tag.

\* \*\*Test Data:\*\* "Code Review"

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

1. Select a task with a tag.

2. Click on the "Remove Tag" button.

\* \*\*Expected Result:\*\* The tag is removed from the task and is no longer displayed in the list.

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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 1:\*\*** Verify that users can update the status of tasks.

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

**\* \*\*Test Case Title:\*\*** Update task status to "In Progress"

**\* \*\*Test Case Description:\*\*** Test functionality to change a task's status from "To Do" to "In Progress."

**\* \*\*Test Data:\*\*** "Task Name," "In Progress" status

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

1. Create a new task.
2. Select the "In Progress" status.
3. Verify the status change in the task list.

**\* \*\*Expected Result:\*\*** The task status is successfully updated to "In Progress."

**\*\*Test Case 2:\*\*** Verify that the system displays task status prominently in the task list.

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

**\* \*\*Test Case Title:\*\*** Displaying task status prominently

**\* \*\*Test Case Description:\*\*** Confirm that the task list prioritizes tasks based on their status.

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

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

1. Create tasks with various statuses.
2. Verify the order of tasks reflects their status (e.g., completed tasks appear at the top).

**\* \*\*Expected Result:\*\*** Tasks are displayed in the correct order of priority, with completed tasks easily identifiable.

**\*\*Test Case 3:\*\*** Verify that users can view the progress percentage of tasks.

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

\* \*\*Test Case Title:\*\* View task progress percentage

\* \*\*Test Case Description:\*\* Test functionality to display the progress percentage of incomplete tasks.

\* \*\*Test Data:\*\* "Task Name," varying completion levels

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

1. Create a task.
2. Track progress as you complete the task.
3. Verify the progress percentage increases accordingly.

\* \*\*Expected Result:\*\* The progress percentage accurately reflects the completion level of the task.

\*\*Test Case 4:\*\* Verify that the system provides notifications for status changes.

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

\* \*\*Test Case Title:\*\* Receive notifications for status changes

\* \*\*Test Case Description:\*\* Test that users receive notifications when the status of a task changes.

\* \*\*Test Data:\*\* "Task Name," various status changes

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

1. Create a task.
2. Change the status of the task.
3. Verify that a notification is received for the status change.

\* \*\*Expected Result:\*\* The system sends notifications for status changes to the user.

\*\*Test Case 5:\*\* Verify that task status can be filtered and sorted.

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

\* \*\*Test Case Title:\*\* Filter and sort tasks by status

\* \*\*Test Case Description:\*\* Test functionality for filtering and sorting tasks based on their status.

\* \*\*Test Data:\*\* Various task statuses

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

1. Create tasks with different statuses.
2. Filter or sort tasks based on their status.
3. Verify that only tasks with the selected status are displayed.

**\* \*\*Expected Result:\*\*** Tasks can be effectively filtered and sorted based on their status.

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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:

### ## Test Cases for Task Filtering and Sorting

**\*\*Test Case 1:\*\*** Verify that tasks can be filtered by due date.

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

**\*\*Test Case Title:\*\*** Filter tasks by due date in ascending order

**\*\*Test Case Description:\*\*** This test case verifies that tasks can be filtered by their due date, and the results are sorted in ascending chronological order.

**\*\*Test Suite:\*\*** Task Management

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

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

- A list of tasks exists with different due dates.
- The filter by due date option is available.

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

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

1. Navigate to the task list.
2. Select the "Filter by Due Date" option.

3. Arrange tasks in ascending order of due date.

4. Verify that tasks with earlier due dates appear before those with later due dates.

**\*\*Expected Result:\*\*** Tasks are filtered and sorted by due date in ascending order.

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

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

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

**\*\*Test Case 2:\*\*** Verify that tasks can be sorted by priority.

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

**\*\*Test Case Title:\*\*** Sort tasks by priority in descending order

**\*\*Test Case Description:\*\*** This test case verifies that tasks can be sorted by their priority, and the results are displayed in descending order of importance.

**\*\*Test Suite:\*\*** Task Management

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

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

- A list of tasks exists with different priorities.

- The sort by priority option is available.

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

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

1. Navigate to the task list.
2. Select the "Sort by Priority" option.
3. Arrange tasks in descending order of priority.
4. Verify that tasks with higher priority appear before those with lower priority.

**\*\*Expected Result:\*\*** Tasks are sorted by priority in descending order.

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

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

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

**\*\*Additional test cases covering remaining acceptance criteria:\*\***

- \* TC-03: Verify that tasks can be filtered by assignee.
- \* TC-04: Verify that tasks can be filtered and sorted by project.
- \* TC-05: Verify that multiple filter and sort criteria can be applied simultaneously.

**\*\*Note:\*\*** These are just five test cases. Additional test cases can be created to cover other permutations of

filter and sorting criteria, negative scenarios, and edge cases.

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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

## **\*\*Test Case 1: Start and Stop Timer\*\***

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

**\*\*Test Case Title:\*\* Verify that users can start and stop a timer for each task.**

**\*\*Test Case Description:\*\* This test case verifies that users can initiate and terminate the timer functionality associated with a task.**

**\*\*Test Data:\*\* Task name, estimated time**

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

- Create a new task.
- Start the timer for the created task.
- Verify that the timer is running.
- Stop the timer.
- Verify that the elapsed time is recorded.

## **\*\*Test Case 2: Time Tracking Data Export\*\***

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

**\*\*Test Case Title:\*\* Verify that time tracking data is stored and can be exported.**

**\*\*Test Case Description:\*\* This test case checks that time data associated with tasks can be saved and retrieved in an exportable format.**

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

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

- Complete a task using the timer functionality.
- Navigate to the time tracking report page.
- Verify that the recorded time for the completed task is displayed.
- Export the time tracking data in a desired format.



### **\*\*Test Case 3: Manual Time Entry\*\***

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

**\*\*Test Case Title:\*\*** Verify that users can manually enter or adjust time entries.

**\*\*Test Case Description:\*\*** This test case ensures that users can manually enter or edit time values associated with tasks.

**\*\*Test Data:\*\*** Task name, estimated time, actual time

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

- Create a new task with an estimated time.
- Manually enter a different time value in the "Actual Time" field.
- Verify that the updated time is saved and reflected in the time tracking report.

### **\*\*Test Case 4: Time Tracking Reports\*\***

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

**\*\*Test Case Title:\*\*** Verify that the system provides reports on time spent per task or project.

**\*\*Test Case Description:\*\*** This test case confirms that the application generates comprehensive reports that summarize time spent on individual tasks and projects.

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

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

- Complete tasks with different estimated and actual time values.
- Navigate to the time tracking report page.
- Verify that the report provides detailed information on time spent per task and project.

**\*\*Test Case 5: Time Tracking Accuracy\*\***

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

**\*\*Test Case Title:\*\* Verify that the system records and displays the total time spent on tasks accurately.**

**\*\*Test Case Description:\*\* This test case ensures that the accumulated time spent on tasks is displayed correctly in the interface and time tracking report.**

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

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

- Start working on multiple tasks with different estimated times.
- Verify that the total time shown in the user interface and report matches the actual time spent.

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**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 Feature**

**\*\*1. Verify that users can create new task templates.\*\***

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

**\* \*\*Test Case Title:\*\* Creating a Task Template with Required Fields**

**\* \*\*Test Case Description:\*\*** Test the process of creating a new task template, ensuring all required fields are mandatory and data input is validated.

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

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

- Navigate to the "Task Templates" section.
- Click on "Create New Template."
- Enter required fields: title, description, due date, assignee.
- Click "Save Template."

**\* \*\*Expected Result:\*\*** The newly created template appears in the list of available templates.

**\*\*2. Verify that templates can include predefined task structures.\*\***

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

\* \*\*Test Case Title:\*\* Adding Task Structure to Template

\* \*\*Test Case Description:\*\* Test the ability to define a hierarchical structure for tasks within the template.

\* \*\*Test Data:\*\* Sample task structure with levels and dependencies.

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

- Create a new task template.
- Click the "Structure" tab.
- Drag and drop tasks onto the desired hierarchy level.

\* \*\*Expected Result:\*\* The hierarchical task structure is reflected in the template.

\*\*3. Verify that users can apply templates to new tasks.\*\*

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

\* \*\*Test Case Title:\*\* Applying a Template to a New Task

\* \*\*Test Case Description:\*\* Test the process of assigning a template to a new task or project.

\* \*\*Test Data:\*\* Existing task template.

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

- Select a template from the list of available templates.
- Click "Apply Template" to a new task or project.

\* \*\*Expected Result:\*\* All predefined tasks within the template are automatically created in the new task or project.

\*\*4. Verify that users can edit existing templates.\*\*

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

\* \*\*Test Case Title:\*\* Editing a Saved Template

\* \*\*Test Case Description:\*\* Test the ability to modify previously created templates.

\* \*\*Test Data:\*\* Existing task template with defined structure.

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

- Select a task template.
- Click the "Edit Template" button.
- Make changes to the template structure or fields.
- Click "Save Template."

\* \*\*Expected Result:\*\* The template is updated with the new changes.

\*\*5. Verify that the system displays a list of available templates.\*\*

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

\* \*\*Test Case Title:\*\* Viewing Available Templates

\* \*\*Test Case Description:\*\* Test that the system properly displays a list of all available task templates.

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

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

- Navigate to the "Task Templates" section.

\* \*\*Expected Result:\*\* A list of available templates is displayed for selection.

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**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

**\*\*1. Verify that tasks can be successfully synced with external calendars\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies that tasks can be seamlessly synchronized with external calendars like Google Calendar or Outlook.

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

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

- Create a task with a deadline.
- Open calendar integration settings and choose the desired external calendar.

- Sync the tasks.
- Verify that the task appears on the external calendar.

**\*\*Expected Result:\*\*** Tasks are successfully synchronized with the external calendar.

**\*\*2. Verify that task deadlines are accurately displayed in the calendar view\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies that task deadlines are displayed correctly in the calendar view alongside other events and appointments.

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

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

- Create a task with a specific deadline.
- Open the calendar view.
- Verify that the task deadline is displayed in the correct calendar slot.

**\*\*Expected Result:\*\*** Task deadline is displayed accurately in the calendar view.

**\*\*3. Verify that reminders can be set for tasks via the calendar\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies that users can set reminders for tasks directly from the calendar interface.

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

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

- Create a task with a deadline.
- Open the calendar view and select the task.

- Set a reminder for the task.
- Verify that the reminder appears in the calendar and the task list.

**\*\*Expected Result:\*\*** Reminders are set correctly for tasks.

**\*\*4. Verify that calendar events update automatically when tasks are changed\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies that changes made to tasks automatically update the associated calendar events.

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

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

- Create a task and set a deadline in the calendar.
- Modify the task deadline.
- Verify that the associated calendar event is updated accordingly.

**\*\*Expected Result:\*\*** Calendar events automatically update when tasks are changed.

**\*\*5. Verify that users can manage calendar sync settings within the app\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies that users can manage their preferences for calendar synchronization within the application.

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

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

- Open calendar integration settings.
- Modify calendar selection or notification preferences.



- Verify that the changes are saved and reflected in the app.

**\*\*Expected Result:\*\*** Users can manage their calendar sync settings effectively.

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## **Data - 36**

### **Project name -**

Task Management Tool

### **Project description -**

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

### **Feature name -**

Task Duplication

### **Feature description -**

Users can duplicate tasks or task templates, saving time and effort when creating similar tasks for different projects or recurring activities. Task duplication allows users to reuse existing task structures and configurations, maintaining consistency and reducing manual effort.

### **Userstory title -**

As a user, I want to duplicate tasks so that I can save time when creating similar tasks.

### **Acceptance criteria -**

['Users can duplicate tasks or task templates.', 'The duplicated task retains all original details, including descriptions, assignees, and deadlines.', 'Users can modify the duplicated task if needed.', 'The system clearly indicates that a task has been duplicated.', 'Duplicated tasks are saved and displayed in the task list.']

### **Generated Test Cases:**

## Task Duplication Test Cases

**\*\*1. Verify that users can duplicate tasks.\*\***

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

- **\*\*Test Case Description:\*\*** This test case verifies that users can successfully duplicate an existing task.

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

- Create a new task.

- Click the "Duplicate Task" button.

- Verify that a new task is created with all original details.

- **\*\*Expected Result:\*\*** The duplicated task is created in the task list.

**\*\*2. Verify that duplicated tasks retain all original details.\*\***

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

- **\*\*Test Case Description:\*\*** This test case ensures that all original details of the source task are retained when it is duplicated.

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

- Create a task with various details such as description, assignee, deadline, and attachments.

- Duplicate the task.

- Verify that all details are present in the duplicated task.

- **\*\*Expected Result:\*\*** All original details are preserved in the duplicated task.

**\*\*3. Verify that users can modify the duplicated task.\*\***

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

- **\*\*Test Case Description:\*\*** This test case checks if users can alter the duplicated task without affecting the original.
- **\*\*Test Steps:\*\***
  - Create a task.
  - Duplicate it.
  - Modify the duplicate task title.
  - Verify that the original task remains unchanged.
- **\*\*Expected Result:\*\*** The original and duplicated tasks are independent after duplication.

**\*\*4. Verify that the system clearly indicates a task has been duplicated.\*\***

- **\*\*Test Case ID:\*\*** TC-4
- **\*\*Test Case Description:\*\*** This test case verifies that the system provides clear feedback when a task is duplicated.
- **\*\*Test Steps:\*\***
  - Create a task.
  - Click the "Duplicate Task" button.
  - Verify a confirmation message or visual indicator indicating that the task has been duplicated.
- **\*\*Expected Result:\*\*** The system displays a clear confirmation message indicating task duplication.

**\*\*5. Verify that duplicated tasks are saved and displayed in the task list.\*\***

- **\*\*Test Case ID:\*\*** TC-5
- **\*\*Test Case Description:\*\*** This test case ensures that duplicated tasks are saved and readily available in the task list.

- **\*\*Test Steps:\*\***
    - Create a task.
    - Duplicate it.
    - Verify the duplicated task is saved in the list and accessible.
  - **\*\*Expected Result:\*\*** The duplicated task is saved and displayed alongside other tasks in the list.
- 

## **Data - 37**

### **Project name -**

Task Management Tool

### **Project description -**

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

### **Feature name -**

Task History

### **Feature description -**

Users can view the history of changes and updates made to tasks, tracking modifications, comments, and other relevant activity. Task history provides a comprehensive audit trail of task-related actions, facilitating accountability, and transparency in task management.

### **Userstory title -**

As a user, I want to view the history of changes to tasks so that I can track updates and modifications.

### **Acceptance criteria -**

['Users can view a detailed history of changes to tasks.', 'The history includes modifications, comments, and other relevant activity.', 'Users can filter the history by type of change or date.', 'The system provides timestamps for all changes.', 'Task history is accessible from the task details page.']

## Generated Test Cases:

### ## Task Management Tool - Test Cases for Task History Feature

**\*\*Test Case 1:\*\*** Verify that users can view a detailed history of changes to tasks.

**\*\*Test Case Description:\*\*** This test case verifies that the task history page displays a list of changes made to a task, including modifications, comments, and other relevant activity.

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

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

1. Create a task.
2. Make several changes to the task (modify title, description, deadline, etc.).
3. Navigate to the task history page.
4. Verify that the history list displays all changes made to the task.
5. Verify that each change is accompanied by a timestamp.

**\*\*Expected Result:\*\*** The task history displays a comprehensive list of changes, including timestamps and associated details.

**\*\*Test Case 2:\*\*** Verify that the history includes modifications, comments, and other relevant activity.

**\*\*Test Case Description:\*\*** This test case verifies that the task history captures modifications, comments, and other relevant activities related to a task.

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

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

1. Create a task with a description.
2. Add a comment to the task.
3. Modify the task title.
4. Attach a file to the task.
5. Navigate to the task history page.
6. Verify that the history list includes all modifications, comments, and file attachments.

**\*\*Expected Result:\*\*** The task history includes all associated changes, comments, and attachments.

**\*\*Test Case 3:\*\*** Verify that users can filter the history by type of change or date.

**\*\*Test Case Description:\*\*** This test case verifies that users can filter the task history by type of change or date range.

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

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

1. Navigate to the task history page.
2. Select the "Filter by Type" option.
3. Verify that the list displays only changes of the selected type.
4. Repeat steps 2 and 3 for different filter options.
5. Verify that filtering by date range works as expected.

**\*\*Expected Result:\*\*** The task history can be effectively filtered by type of change and date range.

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

- Verify that the task history is accessible from the task details page.
- Verify that the system provides timestamps for all changes.
- Test the handling of large volumes of historical data.
- Test the performance of the task history feature under different loads.
- Verify that proper error messages are displayed in case of invalid filter criteria.

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**Data - 38**

**Project name -**

Task Management Tool

**Project description -**

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

**Feature name -**

Task Notifications

**Feature description -**

Users receive notifications for task updates, comments, mentions, and other relevant activity, keeping them informed and engaged with ongoing task progress. Notifications can be delivered via email, mobile push notifications, or in-app alerts, ensuring timely communication and collaboration.

**Userstory title -**

As a user, I want to receive notifications for task updates so that I can stay informed about ongoing task progress.

### **Acceptance criteria -**

['Users receive notifications for task updates, comments, mentions, and other relevant activities.',  
'Notifications can be delivered via email, mobile push notifications, or in-app alerts.', 'Users can customize notification settings based on preferences.', 'Notifications provide detailed information about the activity.',  
'The system logs notification history for future reference.']

### **Generated Test Cases:**

#### **## Task Management Tool - Test Cases for Task Notifications**

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

**\*\*Test Case Title:\*\* Verify that users receive email notifications for task updates**

**\*\*Test Case Description:\*\* This test case verifies that users receive email notifications when updates occur to tasks they are assigned or follow.**

**\*\*Test Data:\*\* User email address, assigned/followed task with updates**

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

- Login to the application.
- Assign or follow a task.
- Make changes to the assigned/followed task.
- Verify an email notification is received with the update details.

**\*\*Expected Result:\*\* Receives a notification email with updated information.**

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

**\*\*Test Case Title:\*\* Verify that users receive mobile push notifications for task mentions**



**\*\*Test Case Description:\*\*** This test case verifies that users receive mobile push notifications when they are mentioned in tasks.

**\*\*Test Data:\*\*** User mobile device and push notification settings

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

- Login to the application.
- Mention a user in a task comment.
- Verify a mobile push notification is received with the mention information.

**\*\*Expected Result:\*\*** Receives a mobile push notification with the mention details.

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

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

**\*\*Test Case Description:\*\*** This test case verifies that users can customize notification preferences for email, push notifications, and in-app alerts.

**\*\*Test Data:\*\*** Various notification preferences settings

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

- Go to notification settings.
- Modify preferences for email, push notifications, and in-app alerts.
- Verify that changes are saved and reflected in notification preferences.

**\*\*Expected Result:\*\*** Notification preferences are updated according to user selection.

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

**\*\*Test Case Title:\*\*** Verify that notification details are logged

**\*\*Test Case Description:\*\*** This test case verifies that the system logs notification history for future reference.

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

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

- Perform actions that trigger notifications.
- Navigate to the notification log.
- Verify that the logged notifications correspond to the performed actions.

**\*\*Expected Result:\*\*** Notification history is logged and accessible.

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

**\*\*Test Case Title:\*\*** Verify that the system handles invalid notification settings

**\*\*Test Case Description:\*\*** This test case verifies that the system handles invalid notification settings entered by users.

**\*\*Test Data:\*\*** Invalid email address, non-existent device, or unsupported notification type

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

- Attempt to set an invalid notification setting.
- Verify that an appropriate error message is displayed.

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**Data - 39**

**Project name -**

Task Management Tool

**Project description -**

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

## **Feature name -**

Task Archiving

## **Feature description -**

Completed or inactive tasks can be archived or moved to a separate section, decluttering the task list and maintaining focus on active tasks. Task archiving helps users keep their task lists organized and prioritized, without losing access to important historical data.

## **Userstory title -**

As a user, I want to archive completed tasks so that I can keep my task list focused on active tasks.

## **Acceptance criteria -**

['Users can archive completed or inactive tasks.', 'Archived tasks are moved to a separate section for easy access.', 'Users can search and view archived tasks.', 'The system provides an option to restore archived tasks to the active list.', 'Archived tasks retain all original details and history.']

## **Generated Test Cases:**

### ## Test Cases for Task Archiving Feature

**\*\*1. Verify that a completed task can be archived successfully.\*\***

**\* \*\*Test Data:\*\*** Completed task with all associated details.

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

- Create a completed task.
- Navigate to the "Archive" button.
- Verify that the task is removed from the active list and appears in the Archived section.

**\* \*\*Expected Result:\*\*** The completed task is archived and the active list remains clean.

**\*\*2. Verify that archived tasks are accessible for search.\*\***

\* \*\*Test Data:\*\* Archived task from previous test case.

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

- Navigate to the "Archived tasks" section.
- Search for the archived task using its title or description.
- Verify that the task is displayed in the search results.

\* \*\*Expected Result:\*\* Archived tasks can be retrieved through search.

\*\*3. Verify that users can restore archived tasks to the active list.\*\*

\* \*\*Test Data:\*\* Archived task from previous test cases.

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

- Locate the archived task.
- Click the "Restore" button.
- Verify that the task appears back in the active list.

\* \*\*Expected Result:\*\* Archived tasks can be easily restored to the main list.

\*\*4. Verify that archived tasks retain all original details and history.\*\*

\* \*\*Test Data:\*\* Archived task from previous test cases.

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

- Archive a task with various attributes and attachments.
- Navigate to the "Archived tasks" section.
- Select the archived task.
- Verify that all original details and attachments are still associated with the task.

\* \*\*Expected Result:\*\* Archived tasks retain their complete history and associated information.

\*\*5. Verify that the system offers an option to prevent accidental archiving of active tasks.\*\*

\* \*\*Test Data:\*\* Active but potentially completed task.

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

- Attempt to archive a task that is not yet completed.

- Verify that the action is disabled or blocked.

\* \*\*Expected Result:\*\* The system prevents accidental archiving of active tasks.

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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 ID:\*\* TC-01**

**\*\*Test Case Title:\*\*** Verify that users can invite external collaborators as guests with limited access.

**\*\*Test Case Description:\*\*** This test case verifies the complete process of inviting external collaborators as guests, focusing on access permissions and limitations.

**\*\*Test Data:\*\*** Test email address, project/task to invite

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

- Sign in as a user.
- Navigate to the "Invite Guest" feature.
- Enter the email address of the external collaborator.
- Select project/task to share access to.
- Send the invitation.

**\*\*Expected Result:\*\*** The guest receives an email invitation with access limited to the shared project/task.

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

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

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

**\*\*Test Case Title:\*\* Verify that guests can view and collaborate on specific tasks or projects.**

**\*\*Test Case Description:\*\* This test case verifies that guests can access shared tasks/projects, contribute to discussions, and collaborate effectively.**

**\*\*Test Data:\*\* Shared task/project**

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

- Receive and accept the invitation.
- Access the shared project/task.
- Review the task details and discuss with collaborators.
- Add notes and collaborate on the task/project.

**\*\*Expected Result:\*\* Guests can contribute to the shared task/project without access to sensitive information.**

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

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

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

**\*\*Test Case Title:\*\* Verify that the system provides clear distinctions between guest and full access roles.**

**\*\*Test Case Description:\*\*** This test case verifies that the system clearly differentiates between guest and full user access in terms of permissions and capabilities.

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

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

- Compare the permissions and access levels for guests and full users.
- Attempt to access restricted areas for both guest and full users.

**\*\*Expected Result:\*\*** Guests have limited access to specific features and information, while full users have access to all functionalities.

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

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

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

**\*\*Test Case Title:\*\*** Verify that users can manage and revoke guest access at any time.

**\*\*Test Case Description:\*\*** This test case verifies the ability to manage guest access easily and revoke access when needed.

**\*\*Test Data:\*\*** Shared project/task

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

- Manage guest access from the collaboration settings.
- Revoke access from the invited guest.



**\*\*Expected Result:\*\*** The guest's access is terminated and they are unable to access the shared project/task.

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

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

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

**\*\*Test Case Title:\*\*** Verify that guests cannot access sensitive or restricted areas of the platform.

**\*\*Test Case Description:\*\*** This test case ensures that sensitive information remains secure and accessible only to authorized users.

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

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

- Attempt to access sensitive features or areas restricted to full users.

**\*\*Expected Result:\*\*** Access is denied, and the user is notified of insufficient permissions.

**\*\*Severity:\*\*** High

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

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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 Cases for Task Import/Export Feature

**\*\*Test Case 1:\*\*** Verify that users can import tasks from a CSV file.

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

**\*\*Test Case Title:\*\*** Verify that users can import tasks from a CSV file.

**\*\*Test Case Description:\*\*** This test case verifies that users can successfully import tasks from a CSV file by providing valid file format and data.

**\*\*Test Data:\*\*** CSV file with valid task data.

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

- User selects "Import Tasks" option.
- User selects CSV file.
- System displays a progress indicator.
- User confirms successful import.

**\*\*Expected Result:\*\*** Imported tasks are displayed in the interface.

**\*\*Test Case 2:\*\*** Verify that the system provides clear mapping of fields during import.

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

**\*\*Test Case Title:\*\*** Verify that the system provides clear mapping of fields during import.

**\*\*Test Case Description:\*\*** This test case verifies that the system clearly maps fields from the import file to the internal data model.

**\*\*Test Data:\*\*** CSV file with headers that do not exactly match internal field names.

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

- User imports a CSV file with custom headers.
- User reviews the mapping between import and internal fields.

**\*\*Expected Result:\*\*** The system clearly explains the mapping for each field.

**\*\*Test Case 3:\*\*** Verify that users can preview imported data before finalizing the process.

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

**\*\*Test Case Title:\*\* Verify that users can preview imported data before finalizing the process.**

**\*\*Test Case Description:\*\* This test case verifies that users can preview the imported data in a temporary view before finalizing the import process.**

**\*\*Test Data:\*\* CSV file with various task data types.**

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

- User imports a CSV file.
- User reviews the data in a preview pane.

**\*\*Expected Result:\*\* The preview displays the imported data accurately.**

**\*\*Test Case 4:\*\* Verify that the system logs import/export activities for future reference.**

**\*\*Test Case ID:\*\* QA-1012**

**\*\*Test Case Title:\*\* Verify that the system logs import/export activities for future reference.**

**\*\*Test Case Description:\*\* This test case verifies that the system maintains a log of all import/export activities for future reference.**

**\*\*Test Data:\*\* Multiple imports and exports of different data sets.**

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

- User imports a CSV file.
- User exports the same tasks to a different format.
- User navigates to the import/export history.

**\*\*Expected Result:\*\* The system displays a detailed log of all import/export activities.**

**\*\*Test Case 5:\*\* Verify that the system handles invalid import formats gracefully.**

**\*\*Test Case ID:\*\* QA-1357**

**\*\*Test Case Title:\*\* Verify that the system handles invalid import formats gracefully.**

**\*\*Test Case Description:\*\* This test case verifies that the system displays an informative error message if the imported file is in an unsupported format.**

**\*\*Test Data:\*\* File with unrecognizable file extension.**

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

- User selects "Import Tasks" option.
- User selects an invalid file.

**\*\*Expected Result:\*\* The system displays an appropriate error message.**

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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 priority levels.

**\*\*Test Case Description:\*\*** This test case verifies that users can assign different priority levels to tasks and modify them as needed.

**\*\*Test Data:\*\*** High, Medium, Low

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

1. Create a new task.
2. Assign a priority level (e.g., High).
3. Modify the priority level to a different value.
4. Verify that the task list is sorted in the correct order of priority.

**\*\*Expected Result:\*\*** The task is assigned and adjusted according to the selected priority level.

**\*\*Test Case 2:\*\*** Verify that tasks can be sorted and filtered based on priority levels.

**\*\*Test Case Description:\*\*** This test case checks that tasks can be easily sorted and filtered based on their

priority levels.

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

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

1. Create several tasks with different priority levels.
2. Sort the task list by priority.
3. Filter the tasks based on a specific priority level.
4. Verify that only tasks with the selected priority level are displayed.

**\*\*Expected Result:\*\*** Tasks are sorted and filtered correctly based on their priority levels.

**\*\*Test Case 3:\*\*** Verify that the system provides visual indicators of task priority.

**\*\*Test Case Description:\*\*** This test case confirms that the system displays priority levels visually using different colors or icons.

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

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

1. Create a task with a specific priority level.
2. Verify that the task is highlighted or displayed with a different color code based on its priority.

**\*\*Expected Result:\*\*** Different priority levels are visually differentiated.

**\*\*Test Case 4:\*\*** Verify that users receive notifications for high-priority tasks.

**\*\*Test Case Description:\*\*** This test case ensures that users receive notifications for tasks with high priority levels.

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

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

1. Create a high-priority task.
2. Enable notifications for high-priority tasks.
3. Verify that a notification is received for the created task.

**\*\*Expected Result:\*\*** Users receive notifications for high-priority tasks.

**\*\*Test Case 5:\*\*** Verify that priority changes are logged and tracked.

**\*\*Test Case Description:\*\*** This test case checks that changes made to task priorities are logged and displayed for tracking purposes.

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

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

1. Create a task.
2. Assign it a priority level.
3. Change the priority level of the task.
4. Verify that the change is logged and displayed in the task history.



**\*\*Expected Result:\*\*** Priority changes are tracked and displayed in the system.

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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:**

## ## Test Cases for Task Collaboration Feature

### \*\*1. Verify that users can assign tasks to team members\*\*

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

\* \*\*Test Case Title:\*\* As a user, I can assign a task to a specific team member.

\* \*\*Test Case Description:\*\* Test the ability to assign a task to another user within the same team, ensuring that the assigned user receives a notification.

\* \*\*Test Data:\*\* User ID of assignee.

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

- Create a new task.
- Select the "Assign to" field and choose a team member from the dropdown list.
- Verify the assigned user receives a notification.

\* \*\*Expected Result:\*\* The assigned user receives a notification and the assigned task appears in their task list.

### \*\*2. Verify that users can share updates and communicate through comments or messages\*\*

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

\* \*\*Test Case Title:\*\* As a user, I can share updates and communicate through comments or messages on tasks.

\* \*\*Test Case Description:\*\* Test the functionality of adding comments and messages to tasks, ensuring proper display and notification for relevant users.

\* \*\*Test Data:\*\* Sample comment or message text.

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

- Create a new task.

- Add a comment or message to the task.
- Verify that the comment or message is saved and displayed correctly.

\* \*\*Expected Result:\*\* The comment or message is saved and displayed for the assigned team members.

\*\*3. Verify that task updates and comments are visible to assigned team members\*\*

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

\* \*\*Test Case Title:\*\* As a user, I can see updates and comments added by other team members on assigned tasks.

\* \*\*Test Case Description:\*\* Test the visibility of updates and comments for assigned team members within the assigned task.

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

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

- Assign a task to a team member.
- Other team members assigned to the task collaborate by adding comments or updates.
- Verify that all assigned team members can access the updates and comments.

\* \*\*Expected Result:\*\* Assigned team members can see all updates and comments added to the assigned task.

\*\*4. Verify that users receive notifications for task updates and comments\*\*

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

\* \*\*Test Case Title:\*\* As a user, I receive notifications for updates and comments on assigned tasks.

\* \*\*Test Case Description:\*\* Test the delivery of notifications for updates and comments on assigned tasks.

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

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

- Assign a task to a team member.
- Other team members collaborate by adding updates or comments to the task.
- Verify that the assigned user receives notifications for the updates and comments.

\* \*\*Expected Result:\*\* The assigned user receives timely notifications for updates and comments on the assigned task.

**\*\*5. Verify that the system provides a clear view of task collaboration history\*\***

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

\* \*\*Test Case Title:\*\* As a user, I can view the complete collaboration history of a task.

\* \*\*Test Case Description:\*\* Test the functionality of reviewing the task collaboration history, including all updates, comments, and assigned users.

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

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

- Create a new task.
- Collaboratively add updates, comments, and assign tasks to team members.
- Access the task history and review the complete collaboration timeline.

\* \*\*Expected Result:\*\* The system displays a clear and organized history of all collaborative actions taken on the task.

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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 ID:\*\*** TC-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 and track their progress.

**\*\*Test Suite:\*\*** Task Tracking Feature

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

**\*\*Preconditions:\*\*** User is logged in to the system, tasks are assigned to the user.

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

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

1. Assign a task to the user.

2. Navigate to the task list.

3. Verify the status of the assigned task is displayed.

**\*\*Expected Result:\*\*** The status of the assigned task is displayed accurately.

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

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

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

**\*\*Test Case Title:\*\*** Verify that users can track task progress and deadlines.

**\*\*Test Case Description:\*\*** This test case ensures users can monitor the progress of tasks and the approaching deadlines.

**\*\*Test Suite:\*\*** Task Tracking Feature

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

**\*\*Preconditions:\*\*** User has created a task with a deadline.

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

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

1. Create a task with a deadline.

2. Track the progress of the task over time.

3. Verify that the deadline is displayed close to the due date.

**\*\*Expected Result:\*\*** The task progress and deadline are accurately tracked.

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

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

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

**\*\*Test Case Title:\*\*** Verify that task updates are updated in real-time.

**\*\*Test Case Description:\*\*** This test case confirms that changes made to a task are reflected immediately in

the system.

**\*\*Test Suite:\*\*** Task Tracking Feature

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

**\*\*Preconditions:\*\*** User has created a task.

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

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

1. Create a task.
2. Modify the task details.
3. Verify that the changes are reflected immediately in the system.

**\*\*Expected Result:\*\*** Task details are updated in real-time.

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

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

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

**\*\*Test Case Title:\*\*** Verify that the system provides visual indicators for task progress.

**\*\*Test Case Description:\*\*** This test case ensures the system clearly visualizes the progress of tasks using color-coding or icons.

**\*\*Test Suite:\*\*** Task Tracking Feature

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

**\*\*Preconditions:\*\*** User has created a task.

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

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

1. Create a task.
2. Track the progress of the task.
3. Verify that different progress stages are represented by distinct colors/icons.

**\*\*Expected Result:\*\*** Visual indicators clearly represent the task's progress.

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

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

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

**\*\*Test Case Title:\*\*** Verify that the system handles invalid deadline entries.

**\*\*Test Case Description:\*\*** This test case ensures the system can handle invalid deadline entries, preventing errors.

**\*\*Test Suite:\*\*** Task Tracking Feature

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

**\*\*Preconditions:\*\*** User attempts to create a task with an invalid deadline.

**\*\*Test Data:\*\*** Date in the future, date in the past, empty deadline field

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

1. Attempt to create a task with an invalid deadline.
2. Observe the system's response.

**\*\*Expected Result:\*\*** The system validates the deadline and prevents the creation of the task.

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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:

#### ## Task Management Tool - Test Cases for Task Notifications

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

**\*\*Test Case Title:\*\*** Verify that users receive notifications for new tasks

**\*\*Test Case Description:\*\*** This test case verifies that users receive notifications when new tasks are assigned to them.

**\*\*Test Suite:\*\*** Functional Testing

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

**\*\*Preconditions:\*\*** User is logged in to the application, User has notification settings enabled

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

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

1. Create a new task assigned to the user.
2. Verify that a notification is received with the task details.
3. Confirm that the notification appears in the designated notification center.

**\*\*Expected Result:\*\*** User receives a notification for the newly created task.

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

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

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

**\*\*Test Case Title:\*\* Verify that users receive notifications for task updates and comments**

**\*\*Test Case Description:\*\* This test case verifies that users receive notifications whenever updates or comments are made to existing tasks.**

**\*\*Test Suite:\*\* Functional Testing**

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

**\*\*Preconditions:\*\* User has created a task, User has tasks with updates or comments**

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

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

1. Update or comment on an existing task.
2. Verify that a notification is received highlighting the changes made.
3. Check that the notification lists the updated/commented task information.

**\*\*Expected Result:\*\* User receives notifications for task updates and comments.**

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

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

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

**\*\*Test Case Title:\*\* Verify that reminders are sent for upcoming deadlines**

**\*\*Test Case Description:\*\* This test case verifies that users receive reminders for tasks with approaching deadlines.**

**\*\*Test Suite:\*\* Functional Testing**

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

**\*\*Preconditions:\*\*** User has tasks with defined deadlines

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

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

1. Assign a deadline to a task.
2. Approach the deadline date and time.
3. Verify that a reminder notification is sent to the user.

**\*\*Expected Result:\*\*** User receives a reminder notification for the upcoming deadline.

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

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

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

**\*\*Test Case Title:\*\*** Verify notification settings can be customized by users

**\*\*Test Case Description:\*\*** This test case verifies that users can customize their notification preferences and manage which notifications they receive.

**\*\*Test Suite:\*\*** Functional Testing

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

**\*\*Preconditions:\*\*** User has access to notification settings

**\*\*Test Data:\*\*** Different notification preferences and categories

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

1. Access the notification preferences settings.
2. Modify notification preferences for different categories.
3. Confirm that changes are reflected in received notifications.

**\*\*Expected Result:\*\*** Users can customize their notification preferences.

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

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

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

**\*\*Test Case Title:\*\* Verify that notifications are received via different channels**

**\*\*Test Case Description:\*\* This test case verifies that notifications are delivered through various channels, such as email, mobile notifications, or desktop notifications.**

**\*\*Test Suite:\*\* Functional Testing**

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

**\*\*Preconditions:\*\* User has multiple notification channels enabled**

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

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

1. Assign a task and track notification delivery through different channels.
2. Review the notification delivery settings.
3. Confirm that notifications are received via the selected channels.

**\*\*Expected Result:\*\* Users receive notifications through multiple channels as configured.**

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

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

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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 1:\*\*** Verify that users can create a new category and assign tasks to it.

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

**\*\*Test Case Title:\*\*** Create and Assign Task to Category

**\*\*Test Case Description:\*\*** This test case verifies that users can successfully create a new category and subsequently assign tasks to that category.

**\*\*Test Suite:\*\*** Task Categorization

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

**\*\*Preconditions:\*\*** User account created, Task list exists.

**\*\*Test Data:\*\*** Category name: "Urgent Projects", Task title: "Create project plan", Assignee: "John Doe"

**\*\*Test Steps:\*\*** 1. Create a new category. 2. Assign tasks to the newly created category. 3. Verify that assigned tasks appear under the category.

**\*\*Expected Result:\*\*** Category is created and tasks are assigned successfully.

**\*\*Test Case 2:\*\*** Verify that tasks can be moved between categories.

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

**\*\*Test Case Title:\*\*** Move Task Between Categories

**\*\*Test Case Description:\*\*** This test case verifies that users can move tasks between different categories without losing data.

**\*\*Test Suite:\*\*** Task Categorization

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

**\*\*Preconditions:\*\*** Existing tasks assigned to different categories.

**\*\*Test Data:\*\*** Category A, Category B

**\*\*Test Steps:\*\*** 1. Select a task. 2. Choose "Move to" option. 3. Select a different category. 4. Verify that the task is now listed under the new category.

**\*\*Expected Result:\*\*** Task is moved successfully between categories.

**\*\*Test Case 3:\*\*** Verify that category information is accurately reflected in task views.

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

**\*\*Test Case Title:\*\*** Verify Category Display Accuracy

**\*\*Test Case Description:\*\*** This test case verifies that the assigned category or project information is correctly reflected in the task view.

**\*\*Test Suite:\*\*** Task Categorization

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

**\*\*Preconditions:\*\*** Existing tasks assigned to different categories.

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

**\*\*Test Steps:\*\*** 1. Assign tasks to different categories. 2. View tasks in different formats (list, grid, Kanban board). 3. Verify that the assigned category/project information is displayed correctly.

**\*\*Expected Result:\*\*** Category information is displayed accurately for assigned tasks.

**\*\*Test Case 4:\*\*** Verify negative scenario: Creating a category with a duplicate name.

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

**\*\*Test Case Title:\*\*** Create Category with Duplicate Name

**\*\*Test Case Description:\*\*** This test case verifies that attempting to create a category with a name already in use is prevented.

**\*\*Test Suite:\*\*** Task Categorization

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

**\*\*Preconditions:\*\*** Existing category with name "Test Category".

**\*\*Test Data:\*\*** "Test Category"

**\*\*Test Steps:\*\*** 1. Attempt to create a new category with the same name as an existing category. 2. Verify that the operation is denied and an appropriate error message is displayed.

**\*\*Expected Result:\*\*** Creation of the category is denied and an error message is displayed.

**\*\*Test Case 5:\*\*** Verify negative scenario: Assigning task to non-existent category.

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

**\*\*Test Case Title:\*\*** Assign Task to Nonexistent Category

**\*\*Test Case Description:\*\*** This test case verifies that assigning a task to a non-existent category results in an appropriate error message.

**\*\*Test Suite:\*\*** Task Categorization

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

**\*\*Preconditions:\*\*** Existing tasks.

**\*\*Test Data:\*\*** Non-existent category name

**\*\*Test Steps:\*\*** 1. Select a task. 2. Choose "Assign to" option. 3. Select a non-existent category. 4. Verify that the operation is denied and an appropriate error message is displayed.

**\*\*Expected Result:\*\*** Assignment to the non-existent category is denied and an error message is displayed.

-----

## **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:

### ## Test Cases for Task Search Feature

**\*\*Test Case 1:\*\*** Verify that users can search for tasks by name.

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

**\*\*Test Case Title:\*\*** Search for tasks by name

**\*\*Test Case Description:\*\*** This test case verifies the basic functionality of searching for tasks by their name.

**\*\*Test Data:\*\*** "Meeting agenda"

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

- Create a task with the name "Meeting agenda".
- Open the search bar and enter "Meeting agenda".
- Verify that the task appears in the search results.

**\*\*Test Case 2:\*\*** Verify that users can search for tasks by description.

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

**\*\*Test Case Title:\*\*** Search for tasks by description

**\*\*Test Case Description:\*\*** This test case verifies the ability to search for tasks using their description.

**\*\*Test Data:\*\*** "Create a report on sales figures"

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

- Create a task with the description "Create a report on sales figures".
- Open the search bar and enter "Create a report".
- Verify that the task appears in the search results.

**\*\*Test Case 3:\*\*** Verify that users can filter search results by category.

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

**\*\*Test Case Title:\*\*** Filter search results by category

**\*\*Test Case Description:\*\*** This test case verifies the ability to filter search results by task category.

**\*\*Test Data:\*\*** "Marketing"

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

- Create a task categorized as "Marketing".
- Open the search bar and enter keywords related to the task.
- Select the "Marketing" category filter.
- Verify that only tasks categorized as "Marketing" appear in the results.

**\*\*Test Case 4:\*\*** Verify that search results are accurate and relevant.

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

**\*\*Test Case Title:\*\*** Verify accuracy and relevance of search results

**\*\*Test Case Description:\*\*** This test case verifies that the search results are accurate and relevant to the search criteria.

**\*\*Test Data:\*\*** "Project management tools"

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

- Search for keywords related to project management tools.
- Examine the relevance and accuracy of the displayed results.

**\*\*Test Case 5:\*\*** Verify that searching by due date filters results appropriately.

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

**\*\*Test Case Title:\*\*** Search by due date filters results appropriately

**\*\*Test Case Description:\*\*** This test case verifies that searching by due date filters the results to show only tasks with the specified deadline.

**\*\*Test Data:\*\*** "Tomorrow"

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

- Create tasks with different due dates, including tomorrow.
- Open the search bar and enter a date range including "tomorrow".
- Verify that only tasks with the "tomorrow" deadline appear in the results.

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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:

**\*\*1. Verify that users can add comments to tasks.\*\***

\* Test Case ID: TC-1

\* Test Case Title: Add comment to a new and existing task

\* Test Case Description: Test the ability to add comments to both new and existing tasks.

\* Preconditions: User is logged in, has a task created.

\* Test Data: Various comment content.

\* Test Steps:

- Create a new task or choose an existing one.
- Click on the "Add Comment" button.
- Enter the desired comment and click "Add Comment".

\* Postconditions: Comment is displayed on the task.

\* Expected Result: The comment is saved and displayed correctly.

\* Severity: Minor

\* Priority: High

**\*\*2. Verify that users can attach files to tasks.\*\***

- \* Test Case ID: TC-2
- \* Test Case Title: Attach files to a task
- \* Test Case Description: Test the functionality of attaching files to tasks.
- \* Preconditions: User is logged in, has a task created.
- \* Test Data: Various file types (images, documents, etc.)
- \* Test Steps:
  - Create a new task or choose an existing one.
  - Click on the "Attach Files" button.
  - Select the desired files and click "Attach".
- \* Postconditions: Attached files are displayed on the task.
- \* Expected Result: The files are successfully attached to the task.
- \* Severity: Minor
- \* Priority: High

**\*\*3. Verify that users can share tasks with other users.\*\***

- \* Test Case ID: TC-3
- \* Test Case Title: Share a task with other users
- \* Test Case Description: Test the feature of assigning collaborators to tasks.
- \* Preconditions: User is logged in, has a task created.
- \* Test Data: Other user accounts.
- \* Test Steps:
  - Create a new task or choose an existing one.
  - Click on the "Share Task" button.
  - Select the desired users from the list.

- \* Postconditions: Shared users receive notification and can access the task.
- \* Expected Result: The task is shared successfully with the designated users.
- \* Severity: Minor
- \* Priority: High

**\*\*4. Verify that task collaboration features work seamlessly and enhance team communication.\*\***

- \* Test Case ID: TC-4
- \* Test Case Title: Collaborative work on a shared task
- \* Test Case Description: Test the overall collaboration features and their impact on team communication.
- \* Preconditions: User is logged in, has a shared task.
- \* Test Data: Thorough interaction scenarios.
- \* Test Steps:
  - Users contribute comments, attachments to the shared task.
  - Users collaborate on editing the task content.
- \* Postconditions: Updated task reflects collaborative efforts.
- \* Expected Result: Improved communication and team productivity.
- \* Severity: Medium
- \* Priority: High

**\*\*5. Verify that the task collaboration features are secure and protect data integrity.\*\***

- \* Test Case ID: TC-5
- \* Test Case Title: Security of task collaboration data
- \* Test Case Description: Test the measures in place to protect collaborative data from unauthorized access or

manipulation.

\* Preconditions: User is logged in.

\* Test Data: Sensitive data like personal information.

\* Test Steps:

- Attempt to access shared tasks with unauthorized user credentials.

- Try to modify shared tasks without proper permissions.

\* Postconditions: Data integrity remains intact.

\* Expected Result: Data is secure and accessible only to authorized users.

\* Severity: Major

\* Priority: High

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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:**

#### **## Online Learning Platform - Course Creation Tools Test Cases**

**\*\*Test Case ID:\*\*** TC-CourseCreation-01

**\*\*Test Case Title:\*\*** Verify that instructors can create courses using videos, presentations, quizzes, and assignments

**\*\*Test Case Description:\*\*** This test case verifies the functionality of adding various multimedia elements to a course.

**\*\*Test Suite:\*\*** Course Creation Tools

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

**\*\*Preconditions:\*\*** User is logged in as an instructor, course draft exists

**\*\*Test Data:\*\*** Video file, presentation file, quiz question set, assignment file

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

1. Create a new course using the "Create New Course" button.
2. Upload a video file to the "Videos" section.
3. Upload a presentation file to the "Presentations" section.
4. Add a quiz question set to the "Quizzes" section.
5. Add an assignment file to the "Assignments" section.

**\*\*Expected Result:\*\*** All multimedia elements are successfully added to the course.

**\*\*Test Case ID:\*\*** TC-CourseCreation-02



**\*\*Test Case Title:\*\*** Verify that the course creation tools are user-friendly and require minimal technical skills

**\*\*Test Case Description:\*\*** This test case checks if the interface is intuitive and easy to navigate without prior technical knowledge.

**\*\*Test Suite:\*\*** Course Creation Tools

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

**\*\*Preconditions:\*\*** User is logged in as an instructor

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

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

1. Explore the course creation interface.
2. Verify the clarity of labels, buttons, and menus.
3. Attempt to create a course without any instructions or guidance.
4. Note any confusion or difficulties encountered during the process.

**\*\*Expected Result:\*\*** The interface is clear and easy to navigate, with minimal technical barriers.

**\*\*Test Case ID:\*\*** TC-CourseCreation-03

**\*\*Test Case Title:\*\*** Verify that courses can be previewed before publishing

**\*\*Test Case Description:\*\*** This test case ensures the functionality of reviewing a course in its entirety before making it available.

**\*\*Test Suite:\*\*** Course Creation Tools

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

**\*\*Preconditions:\*\*** User has created a course

**\*\*Test Data:\*\*** Existing course draft

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

1. Complete the course creation process.
2. Navigate to the "Preview" tab.
3. Review the course content across all sections.
4. Check for functionality and alignment with expectations.

**\*\*Expected Result:\*\*** Course preview is comprehensive and accurately reflects the completed course.

**\*\*Continue creating test cases for the remaining acceptance criteria, ensuring coverage of all functionalities and potential edge cases.\*\***

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**Data - 50**

**Project name -**

Online Learning Platform

**Project description -**

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

**Feature name -**

Interactive Lessons

**Feature description -**

Lessons are thoughtfully designed to foster learner engagement through interactive components such as quizzes, polls, simulations, and discussions. By encouraging active participation and critical thinking, these interactive elements enhance comprehension and retention of course material.

**Userstory title -**

As a learner, I want interactive lessons so that I can engage with the content more effectively.

**Acceptance criteria -**

['Lessons include quizzes, polls, simulations, and discussions.', 'Interactive elements are integrated seamlessly into the lesson content.', 'Learners can track their progress through these activities.', 'Feedback is provided after each interactive component.', 'Interactive lessons can be accessed on various devices.']

**Generated Test Cases:**

## **\*\*Test Case Creation Template\*\***

**\*\*Test Case ID:\*\* TC-INT-LES-01**

**\*\*Test Case Title:\*\* Verify that interactive lessons include quizzes, polls, simulations, and discussions.**

**\*\*Test Case Description:\*\* This test case verifies that interactive lessons incorporate quizzes, polls, simulations, and discussions as specified in the acceptance criteria.**

**\*\*Test Suite:\*\* Interactive Lesson Functionality**

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

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

- User is logged into the platform.
- An interactive lesson is available.

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

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

1. Navigate to an interactive lesson.
2. Verify that quizzes are available within the lesson content.
3. Verify that polls are available within the lesson content.
4. Verify that simulations are available within the lesson content.
5. Verify that discussions are available within the lesson content.

**\*\*Expected Result:\*\* All of the expected interactive elements are present in the lesson.**

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

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

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

**\*\*Test Case ID:\*\* TC-INT-LES-02**

**\*\*Test Case Title:\*\* Verify that interactive elements are seamlessly integrated into the lesson content.**

**\*\*Test Case Description:\*\* This test case verifies that interactive elements are seamlessly integrated into the**

lesson content without causing interruptions or distractions.

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

1. Navigate to an interactive lesson.
2. Interact with various interactive elements within the lesson.
3. Observe the overall responsiveness and performance of the platform.

**\*\*Expected Result:\*\*** Interactive elements are seamlessly integrated without causing performance issues.

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

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

**\*\*Test Case ID:\*\*** TC-INT-LES-03

**\*\*Test Case Title:\*\*** Verify that learners can track their progress through interactive activities.

**\*\*Test Case Description:\*\*** This test case verifies that learners can track their progress through interactive activities and receive feedback.

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

1. Start an interactive lesson.
2. Complete interactive activities within the lesson.
3. Check the progress tracker to monitor completion of activities.
4. Verify that feedback is provided upon completion of activities.

**\*\*Expected Result:\*\*** Learners can track their progress and receive feedback on interactive activities.

**\*\*Severity:\*\*** High

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

**\*\*Test Case ID:\*\*** TC-INT-LES-04

**\*\*Test Case Title:\*\*** Verify that feedback is provided after each interactive component.

**\*\*Test Case Description:\*\*** This test case verifies that feedback is provided after each interactive component

within the lesson.

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

1. Complete an interactive activity within a lesson.
2. Verify that feedback is provided immediately after activity completion.
3. Review the feedback provided.

**\*\*Expected Result:\*\*** Relevant feedback is provided after completing each interactive component.

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

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

**\*\*Test Case ID:\*\*** TC-INT-LES-05

**\*\*Test Case Title:\*\*** Verify that interactive lessons are accessible on various devices.

**\*\*Test Case Description:\*\*** This test case verifies that interactive lessons are accessible on various devices, including desktops, laptops, and mobile devices.

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

1. Access an interactive lesson from different devices.
2. Verify that the lesson interface is responsive and accessible on all devices.

**\*\*Expected Result:\*\*** Interactive lessons are accessible and responsive on various devices.

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

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

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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 - Test Cases

**\*\*Test Case 1:\*\*** Verify that learners can choose courses and modules based on their interests.

**\*\*Test Case ID:\*\*** OLPP-TC-01

**\*\*Test Case Title:\*\*** Choosing Courses based on Interests

**\*\*Test Case Description:\*\*** This test case verifies that users can select courses and modules based on their chosen interests from the personalized learning path options.

**\*\*Test Data:\*\*** List of interests

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

- Login as a learner
- Navigate to the 'Personalized Learning Path' section
- Select preferred interests from the list
- Verify that recommended courses and modules align with the chosen interests

**\*\*Expected Result:\*\*** The displayed courses and modules are relevant to the selected interests.

**\*\*Test Case 2:\*\*** Verify that personalized learning paths adjust dynamically based on learner progress.

**\*\*Test Case ID:\*\*** OLPP-TC-02

**\*\*Test Case Title:\*\*** Dynamic Learning Path Adjustment

**\*\*Test Case Description:\*\*** This test case verifies that the personalized learning path dynamically adjusts based on the learner's progress through the courses and modules.

**\*\*Test Data:\*\*** Completed courses and modules

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

- Complete a course or module
- Verify that the recommended courses and modules change accordingly
- Track learner progress through completed activities

**\*\*Expected Result:\*\*** The learning path adapts to the learner's progress, offering progressively more challenging content.

**\*\*Test Case 3:\*\*** Verify that learners receive recommendations for new courses and modules.

**\*\*Test Case ID:\*\*** OLPP-TC-03

**\*\*Test Case Title:\*\* Receiving Course Recommendations**

**\*\*Test Case Description:\*\*** This test case verifies that the platform provides relevant recommendations for new courses and modules based on the learner's interests and progress.

**\*\*Test Data:\*\*** Learner profile and interests

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

- Access the 'Recommendations' section within the personalized learning path
- Verify that suggested courses and modules align with interests and progress

**\*\*Expected Result:\*\*** The recommendations provide valuable learning material suggestions.

**\*\*Test Case 4:\*\*** Verify that progress tracking is personalized to each learner's path.

**\*\*Test Case ID:\*\*** OLPP-TC-04

**\*\*Test Case Title:\*\*** Personalized Progress Tracking

**\*\*Test Case Description:\*\*** This test case verifies that the platform tracks learner progress individually, allowing for personalized analysis and feedback.

**\*\*Test Data:\*\*** Learner activities and completed tasks

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

- Complete different activities within the platform
- Verify that the progress tracker displays individual performance data

**\*\*Expected Result:\*\*** The progress tracking reveals personalized performance metrics.

**\*\*Test Case 5:\*\*** Verify that learners can adjust their learning paths at any time.

**\*\*Test Case ID:\*\*** OLPP-TC-05

**\*\*Test Case Title:\*\*** Adjustable Learning Path



**\*\*Test Case Description:\*\*** This test case verifies that learners can modify their learning paths to prioritize specific interests or revisit previously covered topics.

**\*\*Test Data:\*\*** Preferred course or module selection

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

- Access the 'My Learning Path' section
- Make changes to the selected courses and modules
- Verify that the changes are reflected in the personalized learning path

**\*\*Expected Result:\*\*** Users can proactively curate their learning journeys.

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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 progress tracking accurately shows completed activities and grades.

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

**\*\*Test Case Description:\*\*** This test case verifies that the progress tracker displays a list of completed activities and their associated grades, reflecting the learner's progress through the course.

**\*\*Test Data:\*\*** Specific course, completed activities and their scores.

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

- Enroll in the chosen course.
- Complete assigned activities.
- Navigate to the progress tracker.
- Verify that completed activities and their grades are listed.

**\*\*Test Case 2:\*\*** Verify that detailed reports can be generated from the progress tracker.

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

**\*\*Test Case Description:\*\*** This test case ensures that learners can generate comprehensive reports summarizing their progress in the course.

**\*\*Test Data:\*\*** Selected time period and filtering criteria.

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

- Navigate to the progress tracker.
- Select the desired time period and filtering criteria.
- Click the "Generate Report" button.
- Verify that the report displays detailed progress information.

**\*\*Test Case 3:\*\*** Verify that achievements are highlighted in the progress tracker.

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

**\*\*Test Case Description:\*\*** This test case confirms that significant achievements and milestones are visually highlighted in the progress tracker.

**\*\*Test Data:\*\*** Completion of a learning unit or achieving a certain score.

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

- Complete activities that qualify for an achievement.
- Navigate to the progress tracker.
- Verify that the achievement is clearly marked and labeled.

**\*\*Test Case 4:\*\*** Verify that learners receive notifications about their progress.

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

**\*\*Test Case Description:\*\*** This test case ensures that learners receive timely notifications regarding their progress in the course.

**\*\*Test Data:\*\*** Progress updates within the course.

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

- Enroll in the chosen course.

- Complete assigned activities.
- Monitor notifications.
- Verify that relevant progress updates are delivered to the user.

**\*\*Test Case 5:\*\*** Verify that progress tracking data can be exported as reports.

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

**\*\*Test Case Description:\*\*** This test case confirms that learners can export their progress data in a report format.

**\*\*Test Data:\*\*** Specified time period and filtering criteria.

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

- Navigate to the progress tracker.
- Select the desired time period and filtering criteria.
- Click the "Export Report" button.
- Verify that the report can be saved or downloaded in the desired format.

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**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:

## Test Cases for Assessment and Grading Feature

**\*\*Test Case 1:\*\*** Verify that instructors can create quizzes with multiple question types.

**\*\*Test Case ID:\*\*** QA-101

**\*\*Test Case Title:\*\*** Create Quiz with Various Question Types

**\*\*Test Case Description:\*\*** This test case verifies that instructors can create quizzes with multiple question types such as MCQs, short answers, and essays.

**\*\*Test Data:\*\*** Subject: Math, Question Type: MCQ, Short Answer, Essay

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

1. Navigate to the Assessment Creation page.
2. Select "Quiz" as the assessment type.

3. Enter quiz title and description.

4. Add multiple question types to the quiz.

5. Review and submit the quiz.

**\*\*Expected Result:\*\*** The quiz is created with the selected question types.

**\*\*Test Case 2:\*\*** Verify that automatically graded questions receive accurate scores.

**\*\*Test Case ID:\*\*** QA-102

**\*\*Test Case Title:\*\*** Automatic Grading Accuracy

**\*\*Test Case Description:\*\*** This test case verifies that automatically graded objective questions receive accurate scores based on predefined criteria.

**\*\*Test Data:\*\*** Subject: Science, Question Type: MCQ, Correct Answer: A

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

1. Create a quiz with a multiple-choice question.

2. Set the correct answer and answer points.

3. Simulate quiz submission.

4. Verify the score received for the question.

**\*\*Expected Result:\*\*** The score is accurate according to the predefined criteria.

**\*\*Test Case 3:\*\*** Verify that manual grading is available for subjective questions.

**\*\*Test Case ID:\*\*** QA-103

**\*\*Test Case Title:\*\*** Manual Grading Availability

**\*\*Test Case Description:\*\*** This test case verifies that instructors can manually grade subjective questions that require human judgment.

**\*\*Test Data:\*\* Subject: Literature, Question Type: Essay**

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

1. Create an essay question for the quiz.
2. Simulate quiz submission.
3. Review the graded responses.

**\*\*Expected Result:\*\* The essay receives a manual grade from the instructor.**

**\*\*Test Case 4:\*\* Verify that feedback is provided to learners after grading.**

**\*\*Test Case ID:\*\* QA-104**

**\*\*Test Case Title:\*\* Feedback Provision**

**\*\*Test Case Description:\*\* This test case verifies that feedback is provided to learners after grading assessments.**

**\*\*Test Data:\*\* Subject: History, Question Type: Short Answer**

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

1. Create a short answer question for the quiz.
2. Simulate quiz submission.
3. Review the provided feedback.

**\*\*Expected Result:\*\* Detailed feedback is provided on the correctness of the answer and areas for improvement.**

**\*\*Test Case 5:\*\* Verify that assessments can be assigned grades and certificates.**

**\*\*Test Case ID:\*\* QA-105**

**\*\*Test Case Title:\*\* Grade and Certificate Issuance**

**\*\*Test Case Description:\*\*** This test case verifies that assessments can be assigned grades and certificates to learners upon completion.

**\*\*Test Data:\*\*** Subject: Language, Question Type: Short Answer

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

1. Create a short answer question for the quiz.
2. Simulate quiz submission.
3. Review the assessment results.

**\*\*Expected Result:\*\*** A grade is assigned and a certificate is issued upon completing the assessment.

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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:**

#### **## Test Cases for Discussion Forums**

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

**\*\*Test Case Title:\*\*** Verify that learners can post questions and responses in forums.

**\*\*Test Case Description:\*\*** This test case verifies that users can create new discussions and replies within forum threads.

**\*\*Test Data:\*\*** Test with various question and reply content.

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

- Navigate to the discussion forum page.
- Create a new discussion with title and content.
- Verify the discussion is displayed in the forum list.
- Create a reply to an existing discussion.
- Verify the reply is posted under the respective discussion.

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

**\*\*Test Case Title:\*\*** Verify that forums support threaded discussions.

**\*\*Test Case Description:\*\*** This test case verifies that users can reply to previous contributions within a discussion thread.

**\*\*Test Data:\*\*** Existing discussion thread with multiple replies.

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

- Locate an existing discussion thread.
- Reply to a previous post within the thread.

- Verify the reply is indented and connected to the original post.

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

**\*\*Test Case Title:\*\*** Verify that instructors can moderate discussions.

**\*\*Test Case Description:\*\*** This test case verifies that instructors have the ability to manage discussions by approving, deleting, and editing posts.

**\*\*Test Data:\*\*** User account with instructor role.

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

- Log in as an instructor.
- Navigate to the discussion forum page.
- Identify a post that requires moderation.
- Moderate the post by approving, deleting, or editing it.
- Verify the changes are reflected in the forum.

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

**\*\*Test Case Title:\*\*** Verify that learners receive notifications for new posts.

**\*\*Test Case Description:\*\*** This test case verifies that users receive timely notifications when new discussions or replies are posted.

**\*\*Test Data:\*\*** User account with registered email address.

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

- Post a new discussion or reply.
- Verify the recipient receives an email notification.

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

**\*\*Test Case Title:\*\*** Verify that forums are accessible on all devices.

**\*\*Test Case Description:\*\*** This test case verifies that the discussion forum page functions seamlessly on various devices.

**\*\*Test Data:\*\*** Different browsers and operating systems.

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

- Access the discussion forum page from various devices.
- Verify that the page is displayed correctly and functionalities work as expected.

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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 and Webinars

#### \*\*Test Case 1: Video Conference Connection\*\*

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

\* \*\*Test Case Title:\*\* Verify that learners can connect to live classes and webinars through video conferencing tools.

\* \*\*Test Case Description:\*\* This test case verifies the seamless integration of the video conferencing platform with the online learning platform, enabling learners to join live sessions.

\* \*\*Test Data:\*\* Test with different internet connections and devices.

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

- Launch a live class or webinar.
- Join the session using the provided link/code.
- Ensure the video and audio connection is stable.

\* \*\*Expected Result:\*\* Learners can join the live session and hear/see the instructor clearly.

#### \*\*Test Case 2: Q&A Functionality\*\*

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

\* \*\*Test Case Title:\*\* Verify that learners can ask questions in real-time during live sessions.

\* \*\*Test Case Description:\*\* This test case verifies the functionality of the Q&A feature, allowing learners to ask questions during live classes and webinars.

\* \*\*Test Data:\*\* Various questions related to the session topic.

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

- Join a live session.
- Utilize the Q&A tool to pose a question.
- Verify that the question is displayed to the instructor and other participants.

\* \*\*Expected Result:\*\* Questions are transmitted and received effectively during the live session.

### \*\*Test Case 3: Session Recording\*\*

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

\* \*\*Test Case Title:\*\* Verify that sessions are recorded and available for later viewing.

\* \*\*Test Case Description:\*\* This test case verifies the automatic recording of live classes and webinars, allowing learners to review the sessions later.

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

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

- Attend a live session.
- Ensure the session is being recorded as indicated by the system.
- Access the recorded session from the available list.

\* \*\*Expected Result:\*\* Recorded sessions are accessible for playback after the live session concludes.

### \*\*Test Case 4: Shared Resources\*\*

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

\* \*\*Test Case Title:\*\* Verify that instructors can share screen and resources during live sessions.

\* \*\*Test Case Description:\*\* This test case verifies the ability of instructors to share their screen and relevant materials during live sessions.

\* \*\*Test Data:\*\* Different file types (documents, images, videos)

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

- Instructor shares their screen during a live session.
- Participants can view the shared content on their screens.

**\* \*\*Expected Result:\*\*** Shared screen content is displayed correctly for all participants.

**\*\*Test Case 5: Session Notification\*\***

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

**\* \*\*Test Case Title:\*\*** Verify that learners receive notifications before live sessions start.

**\* \*\*Test Case Description:\*\*** This test case verifies the timely delivery of notifications to learners about upcoming live classes and webinars.

**\* \*\*Test Data:\*\*** Session schedule with different notification times.

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

- Set up a live session with notification settings.
- Confirm that the scheduled session notification is received before the session start time.

**\* \*\*Expected Result:\*\*** Learners receive timely notifications before live sessions begin.

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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:**

## Online Learning Platform - Mobile Accessibility Test Cases

**\*\*Test Case 1:\*\*** Verify that the platform is accessible on smartphones and tablets.

**\*\*Test Case Description:\*\*** This test case checks if the platform can be accessed and used seamlessly on various mobile devices.

**\*\*Test Data:\*\*** iPhone 12 Pro, Samsung Galaxy S22, iPad Air 4th Generation

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

\* Launch the platform on a mobile device.

\* Verify that the login page is accessible and functional.

- \* Navigate through different sections of the platform.
- \* Check for any UI elements that are not displayed or malfunctioning.

**\*\*Expected Result:\*\*** The platform should launch and function without crashes or accessibility issues on mobile devices.

**\*\*Test Case 2:\*\*** Verify that the Mobile UI is optimized for touch navigation.

**\*\*Test Case Description:\*\*** This test case ensures that the mobile user interface is intuitive and easy to navigate using touch gestures.

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

- \* Navigate through the platform using touch gestures (swipe, tap, pinch, etc.).
- \* Verify that the touch responses are accurate and responsive.
- \* Test for different scenarios, including single-finger and multi-finger gestures.

**\*\*Expected Result:\*\*** The platform should respond smoothly to touch inputs, allowing for intuitive navigation on mobile devices.

**\*\*Test Case 3:\*\*** Verify that course materials are accessible and readable on mobile devices.

**\*\*Test Case Description:\*\*** This test case checks if course materials are formatted and displayed appropriately on mobile devices.



**\*\*Test Data:\*\*** Various course materials (lectures, tutorials, quizzes)

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

- \* Access different course materials on a mobile device.
- \* Verify that text is legible and easily readable.
- \* Check for any layout issues or font size limitations.

**\*\*Expected Result:\*\*** Course materials should be accessible and readable on mobile devices of various screen sizes.

**\*\*Test Case 4:\*\*** Verify that notifications are sent to mobile devices.

**\*\*Test Case Description:\*\*** This test case verifies the functionality of notifications delivered to mobile devices.

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

- \* Enable notification settings on a mobile device.
- \* Complete actions that trigger notifications.
- \* Verify that the notifications reach the device promptly and clearly.

**\*\*Expected Result:\*\*** The platform should send notifications to mobile devices in a timely and relevant manner.

**\*\*Test Case 5:\*\*** Verify that the platform supports offline access to downloaded materials.

**\*\*Test Case Description:\*\*** This test case checks if downloaded materials can be accessed without an internet connection.

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

- \* Download a course material to the mobile device.
- \* Disconnect the device from the internet.
- \* Access the downloaded material offline.

**\*\*Expected Result:\*\*** Downloaded materials should remain accessible even when the device is offline.

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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:**

##### **## Online Learning Platform - Resource Library Test Cases**

**\*\*Test Case 1:\*\*** Verify that learners can access the resource library.

**\*\*Test Case ID:\*\*** RES-001

**\*\*Test Case Title:\*\*** Learners can access the resource library.

**\*\*Test Case Description:\*\*** This test case verifies that learners can navigate to and interact with the resource library feature within the platform.

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

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

- Log in as a learner.
- Navigate to the Resource Library section.
- Verify the library interface loads correctly.
- Check for accessibility via different devices and browsers.

**\*\*Expected Result:\*\*** The resource library page loads successfully and learners can access its features.

**\*\*Test Case 2:\*\*** Verify that the resource library includes e-books, articles, and reference guides.

**\*\*Test Case ID:\*\*** RES-002

**\*\*Test Case Title:\*\*** Resource library includes e-books, articles, and reference guides.

**\*\*Test Case Description:\*\*** This test case confirms that the resource library contains a diverse selection of e-books, articles, and reference guides.

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

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

- Browse through the different resource categories.
- Select various e-books, articles, and reference guides.
- Verify that the resource titles and descriptions are accurate.

**\*\*Expected Result:\*\*** The resource library offers a selection of e-books, articles, and reference guides across different subjects.

**\*\*Test Case 3:\*\*** Verify the search functionality for specific materials.

**\*\*Test Case ID:\*\*** RES-003

**\*\*Test Case Title:\*\*** Learners can search for specific materials.

**\*\*Test Case Description:\*\*** This test case assesses the efficiency and accuracy of the search function within the resource library.

**\*\*Test Data:\*\*** "Machine Learning Books"

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

- Input a specific search term into the resource library search bar.
- Verify that relevant results are displayed in the search results list.

- Check for accuracy and relevance of the returned results.

**\*\*Expected Result:\*\*** Search results are accurate and relevant to the entered query.

**\*\*Test Case 4:\*\*** Verify that resources are categorized and tagged for easy navigation.

**\*\*Test Case ID:\*\*** RES-004

**\*\*Test Case Title:\*\*** Resources are categorized and tagged for easy navigation.

**\*\*Test Case Description:\*\*** This test case evaluates the categorization and tagging of resources for intuitive navigation.

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

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

- Explore different resource categories.
- Verify the presence of relevant tags for each resource.
- Check the functionality of filters and search options.

**\*\*Expected Result:\*\*** Resources are categorized and tagged logically, allowing for easy navigation and discovery.

**\*\*Test Case 5:\*\*** Verify that learners can download resources for offline access.

**\*\*Test Case ID:\*\*** RES-005

**\*\*Test Case Title:\*\*** Learners can download resources for offline access.

**\*\*Test Case Description:\*\*** This test case confirms the download functionality for offline access to resources.

**\*\*Test Data:\*\*** "The Machine Learning Handbook"

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

- Select a resource and choose the "Download" option.

- Verify that the resource file is downloaded to the designated location.
- Check for accessibility of the downloaded resource offline.

**\*\*Expected Result:\*\*** Resources can be downloaded successfully and accessed offline.

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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 Creation Template:\*\***

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

**\*\*Test Case Title:\*\*** Verify that learners can submit assignments for peer review.

**\*\*Test Case Description:\*\*** This test case verifies that learners can submit assignments to the peer review system.

**\*\*Test Suite:\*\*** Peer Review Functionality

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

**\*\*Preconditions:\*\*** User is logged in to the platform, a course with peer review enabled is selected.

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

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

1. Navigate to the assigned course materials.
2. Locate the assignment to be peer reviewed.
3. Click the "Submit for Peer Review" button.
4. Upload the completed assignment.
5. Review the confirmation message.

**\*\*Postconditions:\*\*** The assignment is submitted for peer review.

**\*\*Expected Result:\*\*** The assignment is uploaded successfully and the peer review process begins.

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

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

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

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

**\*\*1. Verify that peers can provide feedback on submitted assignments:\*\***

- Precondition: A submitted assignment exists.
- Test Steps: Login as a peer, locate the assigned submissions, provide feedback on the submitted work.
- Expected Result: Feedback is recorded and available for the original submitter.

**\*\*2. Verify that a structured review process guides the feedback:\*\***

- Precondition: Feedback settings are configured.
- Test Steps: Submit an assignment, review the feedback guidelines.
- Expected Result: Feedback adheres to the predefined guidelines and criteria.

**\*\*3. Verify that learners can view feedback on their work:\*\***

- Precondition: Feedback is provided on an assignment.
- Test Steps: Review the submitted work and verify feedback is displayed.
- Expected Result: Feedback is clearly visible and accessible to the learner.

**\*\*4. Verify that reviewers remain anonymous:\*\***

- Precondition: Multiple learners submit assignments for peer review.
- Test Steps: Review feedback on an assignment, verify reviewer identity remains anonymized.
- Expected Result: Reviewers' identities are hidden from the submitters.



**\*\*5. Verify that the peer review process is compatible with different browsers:\*\***

- Precondition: Different browsers are available.
- Test Steps: Submit an assignment from different browsers.
- Expected Result: The peer review process functions seamlessly across supported browsers.

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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:**

### **## Test Cases for Certificates and Badges Feature**

**\*\*Test Case 1:\*\*** Verify that learners earn certificates upon course completion.

**\*\*Test Case Description:\*\*** This test case verifies that certificates are automatically awarded to learners upon successfully completing a course.

**\*\*Test Data:\*\*** Course ID, Learner ID

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

1. Enroll in a course.
2. Complete all course requirements.
3. Verify a certificate is awarded in the learner's profile.
4. Download the certificate.

**\*\*Expected Result:\*\*** Certificate is awarded and downloadable for the completed course.

**\*\*Test Case 2:\*\*** Verify that badges are awarded for specific achievements and milestones.

**\*\*Test Case Description:\*\*** This test case verifies that badges are awarded for achieving specific milestones like completing modules or earning high scores in quizzes.

**\*\*Test Data:\*\*** Milestone achievement criteria

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

1. Complete a specified milestone.
2. Verify that a badge is awarded in the learner's profile.
3. Check the badge details for the awarded badge.

**\*\*Expected Result:\*\*** Badge is awarded correctly for the achieved milestone.

**\*\*Test Case 3:\*\*** Verify that certificates and badges are accessible through learner profiles.

**\*\*Test Case Description:\*\*** This test case verifies that learners can access their awarded certificates and badges through their profiles.

**\*\*Test Data:\*\*** Learner ID

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

1. Log in to the learner profile.
2. Navigate to the "Certificates & Badges" section.
3. Verify that awarded certificates and badges are displayed.
4. Click on a certificate/badge to view its details.

**\*\*Expected Result:\*\*** Certificates and badges are accessible and viewable in the learner profile.

**\*\*Test Case 4:\*\*** Verify that learners can share their certificates and badges on social media.

**\*\*Test Case Description:\*\*** This test case verifies that learners can share their awarded certificates and badges on social media platforms.

**\*\*Test Data:\*\*** Social media account credentials

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

1. Select a certificate or badge from the learner profile.
2. Click on the "Share on Social Media" button.
3. Verify that the certificate/badge is shared on the chosen social media platform.

**\*\*Expected Result:\*\*** Certificate/badge is shared successfully on the specified social media platform.

**\*\*Test Case 5:\*\*** Verify that instructors can issue custom badges for special achievements.

**\*\*Test Case Description:\*\*** This test case verifies that instructors can create custom badges to recognize special achievements of learners.

**\*\*Test Data:\*\*** Badge design criteria

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

1. Login as an instructor.
2. Navigate to the "Badges" section.
3. Click on "Create Custom Badge."
4. Design and define the criteria for the custom badge.
5. Save the custom badge.

**\*\*Expected Result:\*\*** Custom badge is created and available for issuance to learners who meet the defined criteria.

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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:\*\*** Verify that points are correctly awarded for completing activities.

**\*\*Test Case Description:\*\*** This test case verifies that points are properly assigned and accumulated when learners complete various activities, such as watching lectures, completing quizzes, and participating in discussions.

**\*\*Test Data:\*\*** Various activities completed by learners.

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

- Log in to the platform as a learner.
- Complete different activities in various courses.
- Verify that points are awarded and displayed on the gamification dashboard.
- Ensure that points are correctly added and displayed for multiple activities.

**\*\*Test Case 2:\*\*** Verify that levels are achieved based on accumulated points.

**\*\*Test Case Description:\*\*** This test case confirms that the platform appropriately assigns levels based on the total points earned by learners.

**\*\*Test Data:\*\*** Accumulated points sufficient to progress to different levels.

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

- Earn points by completing activities.
- Monitor the progress bar and levels displayed on the gamification dashboard.
- Verify that levels are upgraded as points exceed the required threshold.

**\*\*Test Case 3:\*\*** Verify that the leaderboard displays top-performing learners.

**\*\*Test Case Description:\*\*** This test case checks if the leaderboard accurately showcases the learners with the highest point totals.

**\*\*Test Data:\*\*** Data from multiple learners with varying points earned.

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

- Access the gamification dashboard.
- Verify that the leaderboard lists learners in descending order of points.
- Ensure that the points and positions are updated regularly.

**\*\*Test Case 4:\*\*** Verify that badges are awarded for reaching milestones.

**\*\*Test Case Description:\*\*** This test case validates that badges are properly awarded when learners achieve specific milestones.

**\*\*Test Data:\*\*** Completion of activities that trigger badge awarding.

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

- Complete activities that trigger badge requirements.
- Check for notification and visual indication of awarded badges.
- Verify that the awarded badges are displayed on the learner's profile.

**\*\*Test Case 5:\*\*** Verify that learners can view their progress in the gamification dashboard.

**\*\*Test Case Description:\*\*** This test case confirms that learners can access and track their overall progress through the gamification features.

**\*\*Test Data:\*\*** Learner account with accumulated points and completed activities.

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

- Access the gamification dashboard.
- Review the progress dashboard showcasing points, levels, and badges earned.
- Verify that the dashboard provides an overview of learning progress.

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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 Case 1\*\***

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

**\*\*Test Case Title:\*\*** Verify that the platform interface is available in multiple languages.

**\*\*Test Case Description:\*\*** Test that the platform interface can be switched to different languages and verify that the UI elements are translated correctly.

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



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

- Navigate to the platform interface.
- Switch the language setting to Spanish.
- Verify that the interface elements are displayed in Spanish.
- Repeat steps 2 and 3 for other supported languages.

**\*\*Expected Result:\*\*** The platform interface should be available in multiple languages as specified.

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

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

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

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

**\*\*Test Case Title:\*\*** Verify that course materials are available in different languages.

**\*\*Test Case Description:\*\*** Test that course materials can be downloaded in different languages.

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

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

- Navigate to a course page.
- Select a course material.
- Verify that the course material is available in multiple languages.

**\*\*Expected Result:\*\*** Course materials should be available in different languages as specified.

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

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

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

**\*\*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 anytime during their interaction with the platform.

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

- Login to the platform.
- Access the user preferences page.
- Select a different language from the language preferences list.
- Verify that the platform interface is now displayed in the selected language.

**\*\*Expected Result:\*\*** The user should be able to change their preferred language successfully.

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

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

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

**\*\*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 support resources and documentation in multiple languages.

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

- Access the platform support page.
- Verify that the support resources are available in multiple languages.

**\*\*Expected Result:\*\*** Translated support resources should be available in multiple languages.

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

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

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

**\*\*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 presentations in multiple

languages.

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

- Login as an instructor.
- Create a new course.
- Upload course materials in multiple languages.

**\*\*Expected Result:\*\*** Instructors should be able to provide content in multiple languages on the platform.

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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:**

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

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

**\*\*Test Case Title:\*\*** Verify that the platform is compatible with screen readers.

**\*\*Test Case Description:\*\*** Ensure that screen readers can effectively navigate and understand the platform's content, including course materials, navigation menus, and interactive elements.

**\*\*Test Data:\*\*** Various screen readers, such as NVDA and JAWS.

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

- Configure a screen reader.
- Access different pages and features on the platform.
- Verify that screen readers can read out content accurately and clearly.

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

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

**\*\*Test Case Title:\*\*** Verify that learners can adjust font sizes for better readability.

**\*\*Test Case Description:\*\*** Check that users can easily adjust the font sizes of course materials and other website elements to their individual preferences.

**\*\*Test Data:\*\*** Various font sizes, including small, medium, and large.

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

- Navigate to the accessibility settings.
- Select different font sizes.
- Verify that the font sizes change appropriately on the page.

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

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

**\*\*Test Case Title:\*\*** Verify that color contrast options are available for improved visibility.

**\*\*Test Case Description:\*\*** Ensure that color contrast levels meet accessibility guidelines, providing enhanced readability for users with visual impairments.

**\*\*Test Data:\*\*** Various color combinations and accessibility standards.

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

- Access the accessibility settings.
- Select different color contrast combinations.
- Verify that the color contrast levels meet the specified standards.

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

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

**\*\*Test Case Title:\*\*** Verify that accessibility features are easy to activate and customize.

**\*\*Test Case Description:\*\*** Check that the accessibility features can be easily activated and customized without technical knowledge or assistance.

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

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

- Locate and activate accessibility features.
- adjust settings as desired.
- Verify that changes are applied correctly.

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

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

**\*\*Test Case Title:\*\*** Verify that support resources are available to assist learners with disabilities.

**\*\*Test Case Description:\*\*** Ensure that adequate resources and guidance are provided to learners with disabilities, such as accessibility tutorials, FAQs, and contact information for support teams.

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

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

- Review the platform's accessibility documentation.
- Contact support and inquire about accessibility-related assistance.
- Verify that appropriate resources and guidance are provided.

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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:**

## Online Learning Platform - Discussion Moderation Test Cases

**\*\*Test Case ID:\*\*** MOD-001

**\*\*Test Case Title:\*\*** Verify that instructors can edit posts in discussions.

**\*\*Test Case Description:\*\*** This test case verifies that instructors can successfully edit the content of any post in a discussion.

**\*\*Test Data:\*\*** Existing discussion with multiple posts.

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

1. Navigate to a discussion forum.
2. Locate and select an existing post.
3. Click the "Edit" button.



4. Modify the post content.

5. Click the "Save" button.

**\*\*Expected Result:\*\*** The post content is updated in the discussion.

**\*\*Test Case ID:\*\*** MOD-002

**\*\*Test Case Title:\*\*** Verify that instructors can delete disruptive users.

**\*\*Test Case Description:\*\*** This test case verifies that instructors can mute or ban users who engage in disruptive behavior.

**\*\*Test Data:\*\*** User account exhibiting disruptive behavior.

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

1. Identify a user engaging in disruptive behavior in a discussion.
2. Click the "Mute" or "Ban" button for that user.
3. Verify that the user's access to the discussion is limited or removed.

**\*\*Expected Result:\*\*** The disruptive behavior ceases and the online learning platform maintains a positive environment.

**\*\*Test Case ID:\*\*** MOD-003

**\*\*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 for future reference.

**\*\*Test Data:\*\*** Discussion with various posts and moderator actions.

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

1. Moderate a discussion post.
2. Check the moderation log for the action taken.
3. Review the reported details of the moderated action.

**\*\*Expected Result:\*\*** Detailed records of all moderation actions are available in the reporting system.

**\*\*Test Case ID:\*\*** MOD-004

**\*\*Test Case Title:\*\*** Verify that community guidelines are visible to all participants.

**\*\*Test Case Description:\*\*** This test case verifies that users can easily access and understand the established community guidelines.

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

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

1. Navigate to the discussion forum.
2. Locate the "Community Guidelines" section.
3. Review the guidelines listed.

**\*\*Expected Result:\*\*** Users can easily access and fully understand the established guidelines.

**\*\*Test Case ID:\*\*** MOD-005

**\*\*Test Case Title:\*\*** Verify that notifications are sent for moderated actions.

**\*\*Test Case Description:\*\*** This test case verifies that instructors receive timely notifications when they moderate discussions.

**\*\*Test Data:\*\*** Enabled notification settings for moderator actions.

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

1. Moderate a discussion post.
2. Verify that an email notification is sent to the instructor.

**\*\*Expected Result:\*\*** Instructors receive timely notifications for their moderation actions.

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**Project name -**

Online Learning Platform

**Project description -**

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

**Feature name -**

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

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

**\*\*Test Case Title:\*\*** Verify that learning analytics dashboards display engagement metrics.

**\*\*Test Case Description:\*\*** This test case verifies that the learning analytics dashboards display accurate and

relevant engagement metrics, including active learners, average session time, and completion rates, for a given course.

**\*\*Test Data:\*\*** Course ID, start date, end date

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

- Login as an instructor.
- Select a course from the course list.
- Navigate to the Learning Analytics dashboard.
- Verify that engagement metrics are displayed for the selected course.
- Validate the accuracy of the displayed data against known metrics.

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

**\*\*Test Case Title:\*\*** Verify that performance trends are visualized over time.

**\*\*Test Case Description:\*\*** This test case verifies that the learning analytics dashboards can visualize performance trends of learners over time, allowing instructors to track progress and identify areas for improvement.

**\*\*Test Data:\*\*** Course ID, time period

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

- Follow steps for Test Case LA-1.
- Select a time period (e.g., last month, past year).
- Verify that performance trends for different learners are displayed in a clear and concise manner.

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

**\*\*Test Case Title:\*\*** Verify that instructors can access detailed reports on learner progress.

**\*\*Test Case Description:\*\*** This test case verifies that instructors can access detailed reports on learner progress, including completion rates, quiz scores, and overall performance.

**\*\*Test Data:\*\*** Course ID, learner name

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

- Follow steps for Test Case LA-1.
- Navigate to the Learner Progress report.
- Select a learner from the list.
- Verify that detailed information on their progress for the course is displayed.

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

**\*\*Test Case Title:\*\* Verify that analytics data is updated in real-time.**

**\*\*Test Case Description:\*\* This test case verifies that analytics data is updated in real-time as learners interact with the platform.**

**\*\*Test Data:\*\* Live learner activity**

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

- Monitor the Learning Analytics dashboard while learners engage with the course material.
- Perform different actions that influence learner engagement (e.g., submitting quizzes, participating in discussions).
- Verify that the analytics data reflects the actions in real-time.

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

**\*\*Test Case Title:\*\* Verify that instructors can export analytics reports for further analysis.**

**\*\*Test Case Description:\*\* This test case verifies that instructors can export analytics reports for further analysis in external tools.**

**\*\*Test Data:\*\* Course ID, time period**

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

- Follow steps for Test Case LA-1.
- Click the "Export Analytics" button.
- Verify that the report is downloaded in a compatible format (e.g., CSV, PDF).

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**Project name -**

Online Learning Platform

**Project description -**

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

**Feature name -**

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 1:\*\* Verify that learners can create groups for projects.

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

**\*\*Test Case Title:\*\* Create Group Success**

**\*\*Test Case Description:\*\*** This test case verifies the functionality of creating groups with various learners and ensures proper group creation process.

**\*\*Test Data:\*\*** Group name, learner names (5)

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

- Navigate to the "Groups" section.
- Click on "Create Group."
- Enter group name and invite learners.
- Verify that the group is created and learners are added.

**\*\*Expected Result:\*\*** A confirmation message indicating successful group creation.

**\*\*Test Case 2:\*\*** Verify that collaboration tools are available for group communication.

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

**\*\*Test Case Title:\*\* Collaboration Tools Availability**

**\*\*Test Case Description:\*\*** This test case checks the availability of communication tools and their functionality within groups.

**\*\*Test Data:\*\*** Existing group

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

- Join an existing group.
- Verify the presence of chat, file sharing, and video conferencing tools.
- Test the functionality of each tool.

**\*\*Expected Result:\*\*** Tools are accessible and operational.

**\*\*Test Case 3:\*\*** Verify that learners can share resources and feedback within groups.

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

**\*\*Test Case Title:\*\* Resource Sharing & Feedback**

**\*\*Test Case Description:\*\*** This test case ensures that users can share learning materials and provide feedback within groups.

**\*\*Test Data:\*\*** Shared document, group feedback

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

- Upload a document to a shared workspace.
- Provide feedback on a shared resource.
- Verify that shared documents and feedback are accessible to group members.

**\*\*Expected Result:\*\*** Shared resources are accessible and feedback is recorded.

**\*\*Test Case 4:\*\*** Verify that instructors can assign group projects and monitor progress.

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

**\*\*Test Case Title:\*\* Instructor Project Management**

**\*\*Test Case Description:\*\*** This test case checks the features for assigning group projects and tracking student progress.

**\*\*Test Data:\*\*** Project requirements, learner names

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

- Assign a group project to learners.
- Track individual and group progress.
- Verify the project status and completion reports.

**\*\*Expected Result:\*\*** Project assignment and progress tracking are efficient.

**\*\*Test Case 5:\*\*** Verify that social sharing features allow learners to share achievements.

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



**\*\*Test Case Title:\*\* Social Sharing Achievements**

**\*\*Test Case Description:\*\*** This test case validates the sharing of learner achievements on social media platforms.

**\*\*Test Data:\*\*** Completed course, social media accounts

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

- Complete a course and achieve a certificate.
- Share the achievement on social media.
- Verify that the achievement is displayed on the chosen platform.

**\*\*Expected Result:\*\*** Successful social sharing of learner achievements.

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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 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
TC-CA-01	Verify that instructors can create multimedia presentations	Ability to add text, images, videos, and audio to presentations	Content Authoring Tools	High	Instructor account exists, Subject available	N/A	1. Access Content Authoring Tools, 2. Create new presentation, 3. Add multimedia elements, 4. Save and preview presentation	Presentation slides display multimedia elements	Minor	High	Functional Testing	Positive	

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

**\*\*TC-CA-02:\*\*** Verify that instructors can create interactive modules with quizzes, feedback options, and progress tracking.

**\*\*TC-CA-03:\*\*** Verify that rich media resources like videos and animations can be uploaded and integrated

into course materials.

**\*\*TC-CA-04:\*\*** Verify that the content authoring tools are user-friendly and intuitive for instructors with varying technical backgrounds.

**\*\*TC-CA-05:\*\*** Verify that instructors can preview and edit content before publishing a course.

**\*\*Test Case Approach:\*\***

- **\*\*Positive:\*\*** Valid test data that meets the requirements
- **\*\*Negative:\*\*** Invalid or incomplete data that violates the requirements
- **\*\*Destructive:\*\*** Explicitly test for potential crashes or unexpected behavior

**\*\*Quality Assurance Focus:\*\***

- Identifying potential defects in content authoring functionality
- Ensuring that content creation and publishing process is seamless and user-friendly
- Contributing to the overall quality and usability of the online learning platform

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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:**

## Online Learning Platform: Test Cases for Learning Paths and Curricula

**\*\*Test Case 1:\*\*** Verify that learning paths include sequential courses and modules.

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

**\*\*Test Case Title:\*\*** Verify that learning paths include sequential courses and modules.

**\*\*Test Case Description:\*\*** Test that learning paths contain courses arranged in a sequential order, and each course is linked to the previous one.

**\*\*Test Data:\*\*** Course A, Course B, Course C

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

- Navigate to the learning paths section.
- Select a learning path.
- Verify that the course list displays courses in order of sequence.

**\*\*Expected Result:\*\*** Courses are listed in the correct sequential order.

**\*\*Test Case 2:\*\*** Verify that curricula are aligned with specific learning objectives.

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

**\*\*Test Case Title:\*\*** Verify that curricula are aligned with specific learning objectives.

**\*\*Test Case Description:\*\*** Test that the curated curricula align with clearly defined learning outcomes and objectives.

**\*\*Test Data:\*\*** Science, Technology, Engineering, Math (STEM) curriculum

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

- Access the curricula section.
- Select a curriculum.
- Verify that the curriculum aligns with the stated learning objectives.

**\*\*Expected Result:\*\*** The curriculum targets the specified learning objectives.

**\*\*Test Case 3:\*\*** Verify that learners can track their progress within a learning path.

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

**\*\*Test Case Title:\*\*** Verify that learners can track their progress within a learning path.

**\*\*Test Case Description:\*\*** Test that learners can monitor their progress through each course and module in the chosen learning path.

**\*\*Test Data:\*\*** Completed modules, total number of modules

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

- Start a learning path.
- Complete a course.
- Verify that the progress tracker updates accordingly.

**\*\*Expected Result:\*\*** Progress is accurately tracked within the learning path.

**\*\*Test Case 4:\*\*** Verify that instructors can customize learning paths for different needs.

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

**\*\*Test Case Title:\*\*** Verify that instructors can customize learning paths for different needs.

**\*\*Test Case Description:\*\*** Test that instructors can create customized learning paths by selecting specific courses and modules.

**\*\*Test Data:\*\*** Custom learning path name, course selection

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

- Navigate to the learning paths management page.
- Create a new custom learning path.
- Select desired courses and modules.

**\*\*Expected Result:\*\*** Customized learning paths are created as desired.

**\*\*Test Case 5:\*\*** Verify that notifications are sent for upcoming courses or milestones.

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

**\*\*Test Case Title:\*\*** Verify that notifications are sent for upcoming courses or milestones.

**\*\*Test Case Description:\*\*** Test that the platform sends notifications to learners regarding upcoming courses

or important milestones within the learning paths.

**\*\*Test Data:\*\*** Course starting date

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

- Enroll in a learning path.
- Approach the date of an upcoming course.
- Verify that a notification is sent reminding about the course.

**\*\*Expected Result:\*\*** Learners receive timely notifications for relevant milestones.

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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:

### ## Online Learning Platform: Attendance Tracking Test Cases

**\*\*Test Case 1: Verify that attendance is automatically recorded during live sessions\*\***

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

\* **\*\*Test Case Title:\*\* Verify that attendance is automatically recorded during live sessions**

\* **\*\*Test Case Description:\*\* This test case ensures that the system automatically captures learner attendance data during live classes and webinars.**

\* **\*\*Test Suite:\*\* Functional Testing**

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

\* **\*\*Preconditions:\*\* A live session is scheduled and available for learners.**

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

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

- Join a live session as a learner.
- Ensure that the system tracks and displays attendance in real-time.
- Participate in the session and verify that attendance is updated accordingly.

\* **\*\*Postconditions:\*\* N/A**

\* **\*\*Expected Result:\*\* Attendance data is accurately recorded and displayed during the live session.**

\* **\*\*Severity:\*\* Blocker**

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

**\*\*Test Case 2: Verify instructor's ability to view attendance reports\*\***



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

\* \*\*Test Case Title:\*\* Verify instructor's ability to view attendance reports

\* \*\*Test Case Description:\*\* This test case ensures instructors can access and review attendance reports for individual sessions.

\* \*\*Test Suite:\*\* Functional Testing

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

\* \*\*Preconditions:\*\* An instructor account is logged in to the platform.

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

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

- Access the "Attendance Reports" section.
- Choose a specific session to review attendance data.
- Verify that the attendance report displays accurate data for learners.

\* \*\*Postconditions:\*\* N/A

\* \*\*Expected Result:\*\* Instructors can access and review attendance reports for their sessions.

\*\*Test Case 3: Verify learners can view attendance records\*\*

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

\* \*\*Test Case Title:\*\* Verify learners can view attendance records

\* \*\*Test Case Description:\*\* This test case ensures learners can access and review their attendance records.

\* \*\*Test Suite:\*\* Functional Testing

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

\* \*\*Preconditions:\*\* A learner account is logged in to the platform.

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

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

- Navigate to the "My Attendance" section.
- Verify that the page displays a list of recorded sessions.
- Select a specific session and review individual attendance data.

\* \*\*Postconditions:\*\* N/A

\* \*\*Expected Result:\*\* Learners can view and access their attendance records for completed sessions.

**\*\*Test Case 4: Verify data integrity between attendance and participation metrics\*\***

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

\* \*\*Test Case Title:\*\* Verify data integrity between attendance and participation metrics

\* \*\*Test Case Description:\*\* This test case ensures accurate synchronization of attendance data with participation metrics.

\* \*\*Test Suite:\*\* Functional Testing

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

\* \*\*Preconditions:\*\* Attendance data for a session is already recorded.

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

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

- Generate participation metrics for the session.
- Compare the attendance data with the participation metrics.

\* \*\*Postconditions:\*\* N/A

\* \*\*Expected Result:\*\* Attendance data matches the corresponding participation metrics.

**\*\*Test Case 5: Verify notifications are sent for missed sessions\*\***

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

\* \*\*Test Case Title:\*\* Verify notifications are sent for missed sessions

\* \*\*Test Case Description:\*\* This test case ensures that learners receive notifications when they miss a live session.

\* \*\*Test Suite:\*\* Functional Testing

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

\* \*\*Preconditions:\*\* A learner has signed up for a live session.

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

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

- Miss the scheduled live session.
- Verify that a notification is sent to the learner.

\* \*\*Postconditions:\*\* N/A

\* \*\*Expected Result:\*\* Learners receive notifications for missed sessions.

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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 Cases for Content Licensing and Rights Management\*\*

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

**\*\*Test Case Title:\*\* Verify that content licenses are assigned to each resource**

**\*\*Test Case Description:\*\* This test case ensures that when a content creator assigns a license to a resource, the assigned license is stored and displayed correctly.**

**\*\*Test Suite:\*\* Content Management**

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

**\*\*Preconditions:\*\* User has created a content resource.**

**\*\*Test Data:\*\* Various licenses from a predefined list.**

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

- Create a content resource.
- Select a license from the available list.
- Verify that the assigned license is displayed alongside the resource.

**\*\*Expected Result:\*\* The assigned license is displayed correctly.**

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

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

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

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

**\*\*Test Case Title:\*\* Verify that usage rights and permissions are clearly defined**

**\*\*Test Case Description:\*\* This test case verifies that the platform clearly defines usage rights and permissions associated with content, ensuring compliance with copyright laws.**

**\*\*Test Suite:\*\* Content Management**

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

**\*\*Preconditions:\*\* Content resource with assigned licenses exists.**

**\*\*Test Data:\*\* Defined access levels for instructors, learners, and general users.**

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

- Edit the properties of a content resource.
- Define specific access levels for instructors, learners, and general users.
- Review the defined usage rights for each group.

**\*\*Expected Result:\*\* The platform clearly defines usage rights for different user groups.**

**\*\*Severity:\*\* Moderate**

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

**\*\*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 ensures that content creators have control over who can access and distribute their content.**

**\*\*Test Suite:\*\* Content Management**

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

**\*\*Preconditions:\*\* Content resource with defined usage rights exists.**

**\*\*Test Data:\*\*** IP restrictions and distribution permissions.

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

- Access the content resource properties.
- Set restrictions on IP addresses and distribution permissions.
- Verify that access is restricted according to the defined restrictions.

**\*\*Expected Result:\*\*** Content access is restricted as per the defined restrictions.

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

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

**\*\*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 ensures that instructors and learners are notified of the licensing terms associated with the content they access.

**\*\*Test Suite:\*\*** User Interface

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

**\*\*Preconditions:\*\*** User has accessed a content resource with assigned licenses.

**\*\*Test Data:\*\*** Sample licensing terms from predefined list.

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

- Access a content resource.
- Review the licensing terms displayed alongside the resource.
- Verify that the licensing terms are clearly understood.

**\*\*Expected Result:\*\*** Users are informed of the content licensing terms.

**\*\*Severity:\*\*** Moderate

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

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

**\*\*Test Case Title:\*\*** Verify that notifications are sent for license expiration or renewal

**\*\*Test Case Description:\*\*** This test case ensures that the platform sends notifications timely for license expiration or renewal.

**\*\*Test Suite:\*\*** Notifications

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

**\*\*Preconditions:\*\*** User has accessed content with an expiring license.

**\*\*Test Data:\*\*** Sample expiration or renewal date.

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

- Set a content resource with an expiring license.
- Approach the expiration date or renewal date.
- Verify that a notification is sent reminding the user about license expiration/renewal.

**\*\*Expected Result:\*\*** The platform sends notifications for license expiration or renewal.

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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:**

#### **## Online Learning Platform - Content Versioning Test Cases**

**\*\*Test Case 1:\*\*** Verify that instructors can create and save multiple versions of content.

**\* \*\*Test Case ID:\*\*** CON-VER-001

**\* \*\*Test Case Title:\*\*** Create and Save Multiple Content Versions

**\* \*\*Test Case Description:\*\*** This test case verifies if instructors can create multiple versions of content using the platform's content versioning feature.

**\* \*\*Test Suite:\*\*** Content Management

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

**\* \*\*Preconditions:\*\*** Instructor account created, Content module accessible

**\* \*\*Test Data:\*\*** Title, Description, Content (various versions)

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

1. Navigate to Content Management page
2. Create a new course or select an existing course
3. Click "Version Control" tab



4. Add new content versions with different titles and descriptions

5. Verify that each version is saved with a timestamp

\* \*\*Expected Result:\*\* The content version is successfully created and saved with a unique timestamp.

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

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

\*\*Test Case 2:\*\* Verify that the version history is maintained and accessible.

\* \*\*Test Case ID:\*\* CON-VER-002

\* \*\*Test Case Title:\*\* View Content Version History

\* \*\*Test Case Description:\*\* This test case verifies if the platform maintains a comprehensive version history of all content changes.

\* \*\*Test Suite:\*\* Content Management

\* \*\*Test Priority:\*\* Medium

\* \*\*Preconditions:\*\* Multiple content versions created

\* \*\*Test Data:\*\* N/A

\* \*\*Test Steps:\*\*

1. Navigate to Content Management page

2. Select a course with multiple versions

3. Click on "Version History" tab

4. Review the list of content versions and timestamps

\* \*\*Expected Result:\*\* All created versions are displayed with timestamps in descending order.

\* \*\*Severity:\*\* Minor

\* \*\*Priority:\*\* Medium

**\*\*Test Case 3:\*\*** Verify that instructors can compare different versions of content.

**\* \*\*Test Case ID:\*\*** CON-VER-003

**\* \*\*Test Case Title:\*\*** Compare Content Versions

**\* \*\*Test Case Description:\*\*** This test case verifies if instructors can easily compare different versions of content side-by-side.

**\* \*\*Test Suite:\*\*** Content Management

**\* \*\*Test Priority:\*\*** High

**\* \*\*Preconditions:\*\*** Multiple content versions created

**\* \*\*Test Data:\*\*** N/A

**\* \*\*Test Steps:\*\***

1. Navigate to Content Management page
2. Select a course and a specific content section
3. Click on "Compare Versions" button
4. Select multiple content versions for comparison
5. Review the differences between versions

**\* \*\*Expected Result:\*\*** The platform displays a side-by-side comparison of the selected versions, highlighting changes made.

**\* \*\*Severity:\*\*** Major

**\* \*\*Priority:\*\*** High

**\*\*Additional Test Cases:\*\***

**\* Test Case 4:** Verify the restoration of previous versions

**\* Test Case 5:** Verify notification system for significant content updates

**\*\*Note:\*\*** Additional test cases can be created to cover other acceptance criteria and specific scenarios like edge cases and negative scenarios.

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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 Feature

**\*\*Test Case 1:\*\*** Verify that APIs are available for key platform functionalities

**\*\*Test Case ID:\*\*** API-1

**\*\*Test Case Title:\*\*** Verify that APIs are available for key platform functionalities

**\*\*Test Case Description:\*\*** This test case verifies that API endpoints for crucial platform functionalities like course retrieval, user authentication, and discussion forum access are functional and accessible.

**\*\*Test Data:\*\*** N/A

**\*\*Test Steps:\*\***

- Access the API documentation.
- Attempt to access APIs using relevant tools.
- Verify that API endpoints respond with the expected status code and data.

**\*\*Test Case 2:\*\*** Verify comprehensive API documentation is provided

**\*\*Test Case ID:\*\*** API-2

**\*\*Test Case Title:\*\*** Verify comprehensive API documentation is provided

**\*\*Test Case Description:\*\*** This test case ensures that API documentation is detailed and informative, covering API functionalities, parameters, and authentication mechanisms.

**\*\*Test Data:\*\*** N/A

**\*\*Test Steps:\*\***

- Review the API documentation thoroughly.
- Verify that documentation explains API functionalities clearly.
- Ensure that parameter types and expected values are documented.
- Check for existence of API versioning and changelog information.

**\*\*Test Case 3:\*\*** Verify secure access protocols are implemented

**\*\*Test Case ID:\*\*** API-3

**\*\*Test Case Title:\*\*** Verify secure access protocols are implemented

**\*\*Test Case Description:\*\*** This test case assesses the implementation of secure authentication and authorization protocols to protect API data.

**\*\*Test Data:\*\*** N/A

**\*\*Test Steps:\*\***

- Attempt to access APIs with unauthorized credentials.
- Verify that unauthorized access attempts are denied.
- Check for implementation of relevant security measures like OAuth 2.0 or API keys.

**\*\*Test Case 4:\*\*** Verify third-party applications can authenticate and access APIs

**\*\*Test Case ID:\*\*** API-4

**\*\*Test Case Title:\*\*** Verify third-party applications can authenticate and access APIs

**\*\*Test Case Description:\*\*** This test case ensures that third-party applications can seamlessly authenticate and access API functionalities.

**\*\*Test Data:\*\*** API credentials for a third-party application

**\*\*Test Steps:\*\***

- Develop a third-party application that utilizes the platform's APIs.
- Integrate authentication mechanisms with the API.
- Test API access with valid and invalid credentials.

**\*\*Test Case 5:\*\*** Verify rate limiting and monitoring features are in place

**\*\*Test Case ID:\*\*** API-5

**\*\*Test Case Title:\*\*** Verify rate limiting and monitoring features are in place

**\*\*Test Case Description:\*\*** This test case checks if rate limiting and monitoring features are implemented to prevent unauthorized API consumption.

**\*\*Test Data:\*\*** N/A

**\*\*Test Steps:\*\***

- Send repetitive API requests from multiple clients.
- Monitor API performance metrics.
- Verify that rate limiting is triggered for excessive requests.

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**Data - 72**

**Project name -**

Online Learning Platform

**Project description -**

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

**Feature name -**

Data Analytics and Insights

**Feature description -**

The platform provides data analytics and insights features, enabling instructors and administrators to analyze learner performance, engagement, and outcomes. By leveraging data visualization tools and reporting features,

the platform helps stakeholders make informed decisions to enhance the learning experience.

**Userstory title -**

As an administrator, I want data analytics and insights so that I can analyze learner performance and improve the platform's effectiveness.

**Acceptance criteria -**

['Data visualization tools are available for analysis.', 'Reports can be generated for learner performance metrics.', 'Real-time analytics provide insights into engagement and outcomes.', 'Data can be exported for further analysis.', 'Notifications are sent for significant data trends or anomalies.']

**Generated Test Cases:**

**## Online Learning Platform - Data Analytics & Insights Test Cases**

**\*\*Test Case 1:\*\*** Verify that data visualization tools are available for analysis

**\*\*Test Case ID:\*\*** QA-1

**\*\*Test Case Description:\*\*** Tests the availability and functionality of data visualization tools for generating charts, graphs, and other visualizations of learner performance data.

**\*\*Test Data:\*\*** Various learner datasets and metrics

**\*\*Test Steps:\*\***

- Access data analytics dashboard.
- Verify different data visualization options.
- Test data selection and filtering capabilities.
- Validate the accuracy of visualized data.

**\*\*Expected Result:\*\*** Data visualization tools function as expected.

**\*\*Test Case 2:\*\*** Verify that reports can be generated for learner performance metrics

**\*\*Test Case ID:\*\*** QA-2

**\*\*Test Case Description:\*\*** Tests the functionality of generating comprehensive reports on learner performance metrics like engagement, completion rates, and quiz scores.

**\*\*Test Data:\*\*** Selected learner groups and performance metrics

**\*\*Test Steps:\*\***

- Access the report generation tool.
- Select desired learner groups and performance metrics.
- Generate the report.
- Verify the completeness and accuracy of the generated report.

**\*\*Expected Result:\*\*** Reports are generated accurately and concisely.

**\*\*Test Case 3:\*\*** Verify that real-time analytics provide insights into engagement and outcomes

**\*\*Test Case ID:\*\*** QA-3

**\*\*Test Case Description:\*\*** Tests the ability to analyze learner engagement and outcomes in real-time using data dashboards and notifications.

**\*\*Test Data:\*\*** Historical learner data and engagement metrics

**\*\*Test Steps:\*\***

- Access the real-time analytics dashboard.
- Track learner engagement changes over time.
- Receive notifications for significant data trends or anomalies.
- Analyze trends and correlations in learner outcomes.

**\*\*Expected Result:\*\*** Real-time analytics provide actionable insights into engagement and outcomes.

**\*\*Test Case 4:\*\*** Verify that data can be exported for further analysis

**\*\*Test Case ID:\*\*** QA-4

**\*\*Test Case Description:\*\*** Tests the ability to export learner data in various formats for further analysis in



external tools.

**\*\*Test Data:\*\*** Selected learner data sets and export formats

**\*\*Test Steps:\*\***

- Access the data export section.
- Select desired learner data and export format.
- Initiate the export process.
- Verify the completeness and integrity of the exported data.

**\*\*Expected Result:\*\*** Data can be exported seamlessly for further analysis.

**\*\*Test Case 5:\*\*** Verify that notifications are sent for significant data trends or anomalies

**\*\*Test Case ID:\*\*** QA-5

**\*\*Test Case Description:\*\*** Tests the sending of notifications when significant data trends or anomalies are detected in the platform.

**\*\*Test Data:\*\*** Datasets with historical outliers or trends

**\*\*Test Steps:\*\***

- Configure notification settings.
- Introduce anomalies or trends in learner data.
- Verify the receipt of notifications for significant data events.

**\*\*Expected Result:\*\*** Notifications are sent promptly and appropriately 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 new user roles.

**\*\*Test Case ID:\*\*** OCRP-001

**\*\*Test Case Title:\*\*** Admin can create user roles

**\*\*Test Case Description:\*\*** This test case verifies that administrators can successfully create new user roles

with desired names and permissions.

**\*\*Test Data:\*\*** Role name, list of permissions

**\*\*Test Steps:\*\***

- Log in as an administrator.
- Navigate to the User Roles page.
- Click "Create New Role".
- Enter the role name and assign desired permissions.
- Click "Create Role".

**\*\*Expected Result:\*\*** The new role is created and displayed in the list.

**\*\*Test Case 2:\*\*** Verify that permissions are customizable for each role.

**\*\*Test Case ID:\*\*** OCRP-002

**\*\*Test Case Title:\*\*** Permission customization for user roles

**\*\*Test Case Description:\*\*** This test case verifies that permissions assigned to different roles can be customized and selectively enabled/disabled.

**\*\*Test Data:\*\*** Existing role with assigned permissions

**\*\*Test Steps:\*\***

- Select an existing role.
- Edit the role permissions.
- Disable or enable specific permissions.
- Save the changes.

**\*\*Expected Result:\*\*** The role permissions are updated according to the changes made.

**\*\*Test Case 3:\*\*** Verify that users are restricted to functionalities based on their roles.

**\*\*Test Case ID:\*\* OCRP-003**

**\*\*Test Case Title:\*\* Access restrictions based on roles**

**\*\*Test Case Description:\*\* This test case verifies that users are restricted to functionalities based on their assigned roles.**

**\*\*Test Data:\*\* Different user roles with assigned permissions**

**\*\*Test Steps:\*\***

- Log in as a user with a specific role.
- Attempt to access functionalities limited to other roles.

**\*\*Expected Result:\*\* The user is unable to access the restricted functionalities.**

**\*\*Test Case 4:\*\* Verify that changes to roles and permissions are logged.**

**\*\*Test Case ID:\*\* OCRP-004**

**\*\*Test Case Title:\*\* Logging of role changes**

**\*\*Test Case Description:\*\* This test case verifies that changes made to user roles and permissions are logged for audit purposes.**

**\*\*Test Data:\*\* Existing role with modified permissions**

**\*\*Test Steps:\*\***

- Make changes to a user role's permissions.
- Review the change log.

**\*\*Expected Result:\*\* The changes made are recorded in the log.**

**\*\*Test Case 5:\*\* Verify that users are notified of their assigned roles and permissions.**

**\*\*Test Case ID:\*\*** OCRP-005

**\*\*Test Case Title:\*\*** Role assignment notification

**\*\*Test Case Description:\*\*** This test case verifies that users are notified of their assigned roles and associated permissions.

**\*\*Test Data:\*\*** New user account

**\*\*Test Steps:\*\***

- Create a new user.
- Assign a role to the user.
- Review the user's profile.

**\*\*Expected Result:\*\*** The user receives notification about their assigned role and its 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 & Rating System Test Cases

**\*\*Test Case ID:\*\* QA-1**

**\*\*Test Case Title:\*\* Verify that learners can rate courses on a scale**

**\*\*Test Case Description:\*\* This test case verifies that learners can provide numerical ratings to courses on a scale of 1 to 5.**

**\*\*Test Suite:\*\* User Feedback & Rating System**

**\*\*Test Priority:\*\* High**

**\*\*Preconditions:\*\* User account is logged in, course is available for rating**

**\*\*Test Data:\*\* N/A**

**\*\*Test Steps:\*\***

1. Navigate to a course page.
2. Locate the rating scale and provide a rating.
3. Verify that the rating is reflected in the course overview.

**\*\*Expected Result:\*\* The course receives a rating based on user input.**

**\*\*Severity:\*\* Minor**

**\*\*Priority:\*\* High**

**\*\*Type of Testing:\*\* Functional Testing**

**\*\*Test Case ID:\*\* QA-2**

**\*\*Test Case Title:\*\* Verify that detailed feedback forms are available**

**\*\*Test Case Description:\*\* This test case verifies the availability of detailed feedback forms for providing qualitative comments.**

**\*\*Test Suite:\*\* User Feedback & Rating System**

**\*\*Test Priority:\*\* High**

**\*\*Preconditions:\*\* User account is logged in, course is available for feedback**

**\*\*Test Data:\*\* N/A**

**\*\*Test Steps:\*\***

1. Navigate to the course feedback section.
2. Verify that a detailed feedback form is available for completion.
3. Ensure that the form allows for textual input.

**\*\*Expected Result:\*\* The detailed feedback form is accessible and allows for textual comments.**

**\*\*Severity:\*\* Minor**

**\*\*Priority:\*\* High**

**\*\*Type of Testing:\*\* Functional Testing**

**\*\*Test Case ID:\*\* QA-3**

**\*\*Test Case Title:\*\* Verify that instructors can view and respond to feedback**

**\*\*Test Case Description:\*\* This test case verifies that instructors can access and reply to learner feedback.**

**\*\*Test Suite:\*\* User Feedback & Rating System**

**\*\*Test Priority:\*\* High**

**\*\*Preconditions:\*\* Instructor account is logged in, feedback has been submitted**

**\*\*Test Data:\*\* N/A**

**\*\*Test Steps:\*\***

1. Navigate to the instructor dashboard.
2. Locate the feedback section.
3. Verify that submitted feedback is displayed and can be viewed.
4. Click on the feedback to respond.

**\*\*Expected Result:\*\*** The instructor can view and respond to learner feedback.

**\*\*Severity:\*\*** Minor

**\*\*Priority:\*\*** High

**\*\*Type of Testing:\*\*** Functional Testing

**\*\*Test Case ID:\*\*** QA-4

**\*\*Test Case Title:\*\*** Verify that aggregated ratings are displayed publicly

**\*\*Test Case Description:\*\*** This test case verifies the display of aggregated course and instructor ratings on the platform.

**\*\*Test Suite:\*\*** User Feedback & Rating System

**\*\*Test Priority:\*\*** Medium

**\*\*Preconditions:\*\*** Course has received ratings from learners

**\*\*Test Data:\*\*** N/A

**\*\*Test Steps:\*\***

1. Navigate to the course or instructor page.
2. Verify that the aggregated ratings are displayed alongside the course/instructor information.

**\*\*Expected Result:\*\*** Aggregated ratings are accurately displayed.

**\*\*Severity:\*\*** Minor

**\*\*Priority:\*\*** Medium

**\*\*Type of Testing:\*\*** Functional Testing



**\*\*Test Case ID:\*\* QA-5**

**\*\*Test Case Title:\*\* Verify that anonymous feedback options are available**

**\*\*Test Case Description:\*\* This test case verifies that learners can provide feedback anonymously.**

**\*\*Test Suite:\*\* User Feedback & Rating System**

**\*\*Test Priority:\*\* High**

**\*\*Preconditions:\*\* User account is logged in**

**\*\*Test Data:\*\* N/A**

**\*\*Test Steps:\*\***

1. Navigate to the course feedback section.
2. Select the "Provide Feedback Anonymously" option.
3. Provide feedback without logging in.

**\*\*Expected Result:\*\* Feedback is submitted anonymously.**

**\*\*Severity:\*\* Minor**

**\*\*Priority:\*\* High**

**\*\*Type of Testing:\*\* Functional Testing**

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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:\*\*** SOC-1

**\*\*Test Case Title:\*\*** Verify that learners can connect their social media accounts to the platform.

**\*\*Test Case Description:\*\*** This test case verifies that learners can seamlessly connect their social media accounts to the platform using standard authentication flows.

**\*\*Test Data:\*\*** Various social media accounts (Facebook, Twitter, LinkedIn, etc.)

**\*\*Test Steps:\*\***

- Navigate to the social media integration settings.
- Authenticate with a valid social media account.
- Verify successful connection with a confirmation message.

**\*\*Postconditions:\*\*** Connected social media account is displayed in user profile.

**\*\*Expected Result:\*\*** Successful connection and authentication with the social media platform.

**\*\*Test Case 2:\*\*** Verify that achievements and course completions can be shared on social media.

**\*\*Test Case ID:\*\*** SOC-2

**\*\*Test Case Title:\*\*** Verify that achievements and course completions can be shared on social media.

**\*\*Test Case Description:\*\*** This test case verifies that achieved milestones and completed courses can be seamlessly shared on the learner's social media profiles.

**\*\*Test Data:\*\*** Completed course, achieved milestone

**\*\*Test Steps:\*\***

- Complete a course or achieve a milestone.
- Navigate to the social media sharing options.
- Verify that achievement/completion is automatically shared on social media.

**\*\*Postconditions:\*\*** Shared achievement or completion post is visible on social media.

**\*\*Expected Result:\*\*** Shared achievement or completion notification on chosen social media platform.

**\*\*Test Case 3:\*\*** Verify that privacy settings control the visibility of shared content.

**\*\*Test Case ID:\*\*** SOC-3

**\*\*Test Case Title:\*\*** Verify that privacy settings control the visibility of shared content.

**\*\*Test Case Description:\*\*** This test case verifies that users can control the visibility of shared content through privacy settings.

**\*\*Test Data:\*\*** Different privacy settings options

**\*\*Test Steps:\*\***

- Access privacy settings and alter visibility preferences.
- Share an achievement or completion with selective audience.
- Verify that shared content is only visible to authorized users.

**\*\*Postconditions:\*\*** Privacy settings are updated and applied.

**\*\*Expected Result:\*\*** Shared content is visible only to authorized users according to privacy settings.

**\*\*Additional Test Cases:\*\***

- Test case for sharing course updates on social media.
- Test case for instructor sharing courses and updates.
- Test case for tracking reach and engagement of shared content.

**\*\*Note:\*\*** Additional test cases can be created to further validate other acceptance criteria related to accessibility, performance, and security aspects of the social media integration feature.

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**Data - 76**

**Project name -**

Fitness Tracker App

**Project description -**

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health

metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

**Feature name -**

Activity Tracking

**Feature description -**

The app records various activities such as running, walking, cycling, and swimming, capturing data on distance, duration, pace, and calories burned. This feature enables users to monitor their daily physical activity levels and progress towards fitness goals.

**Userstory title -**

As a user, I want to track my activities so that I can monitor my daily physical activity levels.

**Acceptance criteria -**

['The app records data on distance, duration, pace, and calories burned.', 'Users can view activity summaries.', 'Data is stored for historical analysis.', 'Activity tracking can be paused and resumed.', 'Users receive notifications for milestones.']

**Generated Test Cases:**

## Fitness Tracker App - Activity Tracking Test Cases

**\*\*Test Case 1:\*\*** Verify that the app accurately records distance, duration, pace, and calories burned during a running activity.

**\* \*\*Test Data:\*\*** Distance: 5km, Duration: 30min, Pace: 5km/h, Calories: 300

**\* \*\*Test Steps:\*\***

- Start activity tracking with running mode.
- Perform a 5km run.
- Review recorded data for distance, duration, pace, and calories burned.

\* \*\*Expected Result:\*\* Data matches the recorded activity parameters.

\*\*Test Case 2:\*\* Verify that the app displays a summary of completed activities.

\* \*\*Test Data:\*\* Various activities completed.

\* \*\*Test Steps:\*\*

- Track multiple activities (running, cycling, swimming, etc.).
- Access the activity summary page.
- Verify that summaries for each activity are displayed correctly.

\* \*\*Expected Result:\*\* Summary table displays relevant data for each completed activity.

\*\*Test Case 3:\*\* Verify that historical activity data is stored and accessible.

\* \*\*Test Data:\*\* 2 months of activity data.

\* \*\*Test Steps:\*\*

- Track activities over a 2-month period.
- Access the historical activity log.
- Verify that data for all tracked activities is stored and accessible.

\* \*\*Expected Result:\*\* Historical data is stored securely and can be easily retrieved.

\*\*Test Case 4:\*\* Verify that the activity tracking feature can be paused and resumed.

\* \*\*Test Data:\*\* Running activity in progress.

\* \*\*Test Steps:\*\*

- Start tracking a running activity.
- Pause and resume the activity tracking.
- Verify that activity data is recorded accurately during both phases.

\* \*\*Expected Result:\*\* Activity tracking resumes seamlessly after being paused.

\* \*\*Test Case 5:\*\* Verify that the app sends notifications for activity milestones.

\* \*\*Test Data:\*\* predefined milestones for distance, calories burned.

\* \*\*Test Steps:\*\*

- Set milestones for distance and calories burned.
- Engage in activities until milestones are achieved.
- Verify that notifications are received for each milestone.

\* \*\*Expected Result:\*\* Notifications are timely and relevant to the predefined milestones.

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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 Creation Template:\*\***

**\*\*Test Case ID:\*\*** GPS-001

**\*\*Test Case Title:\*\*** Verify that GPS tracking accurately records route data.

**\*\*Test Case Description:\*\*** This test case verifies that GPS tracking accurately captures and records outdoor activity routes on the app.

**\*\*Test Suite:\*\*** GPS Tracking

**\*\*Test Priority:\*\*** High

**\*\*Preconditions:\*\*** GPS is enabled on the device, user has established a connection to a GPS signal.

**\*\*Test Data:\*\*** N/A

**\*\*Test Steps:\*\***

1. Launch the app and enable GPS tracking.
2. Engage in a outdoor activity for 10 minutes.
3. Verify that the app tracks the route data on the map.
4. Check that the recorded route matches the actual path traveled.
5. Review the tracked route data for accuracy.

**\*\*Postconditions:\*\*** GPS tracking is disabled.



**\*\*Expected Result:\*\*** The recorded route data is accurate and reflects the actual activity path.

**\*\*Severity:\*\*** Critical

**\*\*Priority:\*\*** High

**\*\*Type of Testing:\*\*** Functional Testing

**\*\*Additional Test Cases:\*\***

**\*\*Test Case ID:\*\*** GPS-002

**\*\*Test Case Title:\*\*** Verify that users can view detailed maps and elevation profiles.

**\*\*Test Case Description:\*\*** This test case verifies that the app allows users to view detailed maps and elevation profiles of their tracked routes.

**\*\*Test Case ID:\*\*** GPS-003

**\*\*Test Case Title:\*\*** Verify that performance data includes location-based metrics.

**\*\*Test Case Description:\*\*** This test case verifies that the app tracks and displays relevant location-based metrics like distance, pace, and elevation.

**\*\*Test Case ID:\*\*** GPS-004

**\*\*Test Case Title:\*\*** Verify that routes can be saved and revisited.

**\*\*Test Case Description:\*\*** This test case verifies that users can save and revisit previously tracked routes within the app.

**\*\*Test Case ID:\*\*** GPS-005

**\*\*Test Case Title:\*\*** Verify that notifications are provided for deviations from planned routes.

**\*\*Test Case Description:\*\*** This test case verifies that the app alerts users when it detects significant deviations from their planned routes.

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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 -**

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:\*\*** Verify that heart rate data is recorded in real-time.

**\*\*Test Case ID:\*\*** FT-HR-1

**\*\*Test Case Title:\*\* Real-time Heart Rate Recording**

**\*\*Test Case Description:\*\*** This test case verifies whether heart rate data is captured and displayed in real-time during exercise.

**\*\*Test Data:\*\*** User starts a workout and moves around, generating heart rate data.

**\*\*Test Steps:\*\***

- Launch the app and start a workout.
- Engage in physical activity to generate heart rate data.
- Monitor the heart rate graph in real-time.

**\*\*Expected Result:\*\*** Heart rate data updates on the screen continuously and accurately reflects the intensity of exercise.

**\*\*Test Case 2:\*\*** Verify that users can set and monitor target heart rate zones.

**\*\*Test Case ID:\*\*** FT-HR-2

**\*\*Test Case Title:\*\*** Target Heart Rate Setting and Monitoring

**\*\*Test Case Description:\*\*** This test case ensures users can set specific target heart rate ranges and monitor their performance against those goals.

**\*\*Test Data:\*\*** User inputs desired target heart rate range.

**\*\*Test Steps:\*\***

- Go to settings and define personalized target heart rate zones.
- Start a workout and monitor heart rate during activity.
- Check if the app displays whether they are within their target zone.

**\*\*Expected Result:\*\*** The app displays target heart rate range and highlights if the user is within or outside it during exercise.

**\*\*Test Case 3:\*\*** Verify that historical heart rate data is stored and viewable.

**\*\*Test Case ID:\*\* FT-HR-3**

**\*\*Test Case Title:\*\* Historical Heart Rate Data Storage**

**\*\*Test Case Description:\*\*** This test case confirms the storage and retrieval of historical heart rate data for review.

**\*\*Test Data:\*\*** Multiple workout records with heart rate data.

**\*\*Test Steps:\*\***

- Complete multiple workouts and save them in the app.
- Access the "Heart Rate History" section of the app.
- Review historical heart rate data for different workouts.

**\*\*Expected Result:\*\*** The app displays a detailed record of historical heart rate data for reference.

**\*\*Test Case 4:\*\*** Verify that alerts are provided for abnormal heart rate readings.

**\*\*Test Case ID:\*\* FT-HR-4**

**\*\*Test Case Title:\*\* Alert for Abnormal Heart Rate Readings**

**\*\*Test Case Description:\*\*** This test case assesses the functionality of alerts for significantly high or low heart rate values.

**\*\*Test Data:\*\*** Simulated abnormal heart rate data during exercise.

**\*\*Test Steps:\*\***

- Set workout parameters and heart rate limits in settings.
- Start a workout and intentionally exceed or drop below the established limits.
- Observe if the app triggers an alert.

**\*\*Expected Result:\*\*** The app generates an alert notifying the user of the abnormal heart rate reading.

**\*\*Test Case 5:\*\*** Verify that data is compatible with various wearable devices.

**\*\*Test Case ID:\*\* FT-HR-5**

**\*\*Test Case Title:\*\* Compatibility with Wearable Devices**

**\*\*Test Case Description:\*\* This test case ensures seamless integration with different types of wearable devices and smartwatches.**

**\*\*Test Data:\*\* Various compatible wearable devices.**

**\*\*Test Steps:\*\***

- Pair the app with different wearable devices.
- Start a workout and monitor heart rate data from both the app and the wearable device.

**\*\*Expected Result:\*\* Consistent and accurate heart rate data is transmitted and displayed from both sources.**

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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**

**\*\*1. Verify that users can log daily food intake.\*\***

**\* \*\*Test Case ID:\*\* FC-1**

**\* \*\*Test Case Description:\*\*** Tests the ability to input varying amounts of food and their associated calories into the app.

**\* \*\*Test Data:\*\*** Salmon, 200 calories, Apple, 100 calories, Green salad, 50 calories

**\* \*\*Expected Result:\*\*** Successful entry of food items and their calories into the log.

**\*\*2. Verify that the app calculates and displays total calories consumed and burned.\*\***

**\* \*\*Test Case ID:\*\* FC-2**

**\* \*\*Test Case Description:\*\*** Assesses the accuracy of calorie calculations for various food and exercise activities.

**\* \*\*Test Data:\*\*** As per test cases for food logging

**\* \*\*Expected Result:\*\*** Accurate sum of calories consumed and burned is displayed.

**\*\*3. Verify that users can set daily calorie goals and track progress.\*\***

**\* \*\*Test Case ID:\*\* FC-3**

**\* \*\*Test Case Description:\*\* Tests the functionality of setting daily calorie goals and monitoring progress towards them.**

**\* \*\*Test Data:\*\* 2000 calories**

**\* \*\*Expected Result:\*\* Goal is set and progress is tracked in the app.**

**\*\*4. Verify that food items and calorie information are searchable in the database.\*\***

**\* \*\*Test Case ID:\*\* FC-4**

**\* \*\*Test Case Description:\*\* Tests the search functionality of food items and their calorie values within the database.**

**\* \*\*Test Data:\*\* "Salmon", "Apple"**

**\* \*\*Expected Result:\*\* Relevant food items with corresponding calorie values are displayed in search results.**

**\*\*5. Verify that users receive alerts for exceeding calorie goals.\*\***

**\* \*\*Test Case ID:\*\* FC-5**

**\* \*\*Test Case Description:\*\* Tests the implementation of alerts when calorie goals are surpassed.**

**\* \*\*Test Data:\*\* Set calorie goal is 2000 calories**

**\* \*\*Expected Result:\*\* Alert is triggered when calorie intake exceeds the set goal.**

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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 ID:\*\* FT-Sleep-01**

**\*\*Test Case Title:\*\* Verify that sleep data is recorded including duration and quality.**

**\*\*Test Case Description:\*\* This test case verifies that the app accurately records both the sleep duration and quality data collected from the accelerometer and heart rate sensors.**

**\*\*Test Data:\*\* N/A**

**\*\*Test Steps:\*\***

- Launch the sleep tracking feature.
- Perform a 30-minute restful sleep session.
- Verify that the app records sleep duration and quality data in the sleep report.

**\*\*Expected Result:\*\* Accurate recording of both sleep duration and quality data.**

**\*\*Test Case ID:\*\* FT-Sleep-02**

**\*\*Test Case Title:\*\* Verify that users can view detailed sleep stages and patterns.**

**\*\*Test Case Description:\*\* This test case ensures that users can access detailed insights on their sleep stages, such as deep sleep, light sleep, and REM sleep.**

**\*\*Test Data:\*\* N/A**

**\*\*Test Steps:\*\***

- Access the sleep report.
- Review the detailed breakdown of sleep stages.
- Verify that the data is accurate and consistent with sleep duration.

**\*\*Expected Result:\*\* Detailed breakdown of sleep stages with accurate data.**

**\*\*Test Case ID:\*\* FT-Sleep-03**

**\*\*Test Case Title:\*\* Verify that the app provides insights into sleep disturbances.**

**\*\*Test Case Description:\*\* This test case verifies that the app identifies and highlights potential sleep disturbances, such as nighttime awakenings or changes in sleep quality.**

**\*\*Test Data:\*\*** N/A

**\*\*Test Steps:\*\***

- Review the sleep report.
- Identify any identified sleep disturbances.
- Verify that the app provides suggestions for addressing the identified disturbances.

**\*\*Expected Result:\*\*** Identification of sleep disturbances with actionable suggestions.

**\*\*Test Case ID:\*\*** FT-Sleep-04

**\*\*Test Case Title:\*\*** Verify that sleep data can be viewed in daily, weekly, and monthly summaries.

**\*\*Test Case Description:\*\*** This test case ensures that users can review their sleep data aggregated over different timeframes.

**\*\*Test Data:\*\*** N/A

**\*\*Test Steps:\*\***

- Choose the desired time period (daily, weekly, monthly).
- Verify that the app displays aggregated sleep data for the selected period.

**\*\*Expected Result:\*\*** Accurate aggregation and display of sleep data for the chosen timeframe.

**\*\*Test Case ID:\*\*** FT-Sleep-05

**\*\*Test Case Title:\*\*** Verify that users receive recommendations for improving sleep quality.

**\*\*Test Case Description:\*\*** This test case verifies that the app provides personalized recommendations to improve sleep quality based on the user's sleep data and identified disturbances.

**\*\*Test Data:\*\*** N/A

**\*\*Test Steps:\*\***

- Review the sleep recommendations provided by the app.
- Verify that the recommendations are relevant and actionable.

**\*\*Expected Result:\*\*** Relevant and actionable recommendations for improving sleep quality.

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## **Data - 81**

### **Project name -**

Fitness Tracker App

### **Project description -**

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

### **Feature name -**

Workout Logging

### **Feature description -**

Users can log individual workouts, specifying exercise type, duration, intensity, and any additional notes or comments. This feature allows users to maintain a detailed workout log, track progress over time, and identify trends in performance and adherence to training programs.

### **Userstory title -**

As a user, I want to log my workouts so that I can track my progress and improve my performance.

### **Acceptance criteria -**

['Users can log various workout types with details.', 'Workout logs include duration, intensity, and notes.', 'Users can edit and delete workout entries.', 'Data is stored and viewable for tracking progress.', 'Users can filter logs by date and workout type.']

### **Generated Test Cases:**

## Fitness Tracker App - Workout Logging Test Cases

**\*\*Test Case 1:\*\*** Verify that users can log various workout types with details.

**\*\*Test Case ID:\*\* FITR-1**

**\*\*Test Case Title:\*\* Logging Different Workout Types**

**\*\*Test Case Description:\*\* Tests the functionality of logging different types of workouts, including running, cycling, swimming, and weightlifting.**

**\*\*Test Data:\*\* Running, Cycling, Swimming, Weightlifting**

**\*\*Test Steps:\*\***

- Launch the app and navigate to the Workout Log screen.
- Select "Log New Workout."
- Choose the desired workout type from the list.
- Enter duration, intensity level, and any additional notes.
- Verify that the workout type and details are saved correctly.

**\*\*Test Case 2:\*\* Verify that workout logs include duration, intensity, and notes.**

**\*\*Test Case ID:\*\* FITR-2**

**\*\*Test Case Title:\*\* Accurate Duration and Intensity Logging**

**\*\*Test Case Description:\*\* Checks if duration and intensity levels are correctly stored and displayed in the workout logs.**

**\*\*Test Data:\*\* Various workout types with varying durations and intensity levels**

**\*\*Test Steps:\*\***

- Log a workout with a specific duration and intensity level.
- Verify that the logged duration and intensity match the input values.
- Check that the notes entered are stored and displayed correctly.

**\*\*Test Case 3:\*\*** Verify that users can edit and delete workout entries.

**\*\*Test Case ID:\*\*** FITR-3

**\*\*Test Case Title:\*\*** Editing and Deleting Workouts

**\*\*Test Case Description:\*\*** Tests the ability to edit existing workout entries and delete unwanted entries.

**\*\*Test Data:\*\*** Existing workout log

**\*\*Test Steps:\*\***

- Locate a previously logged workout.
- Edit the workout details if necessary.
- Delete the workout entry from the list.
- Verify that the edits are saved and the deletion is confirmed.

**\*\*Test Case 4:\*\*** Verify that data is stored and viewable for tracking progress.

**\*\*Test Case ID:\*\*** FITR-4

**\*\*Test Case Title:\*\*** Data Persistence and Tracking

**\*\*Test Case Description:\*\*** Checks if workout data is stored securely and can be retrieved for progress tracking.

- Open the Workout History screen.
- Verify that previously logged workouts are displayed in the list.
- Check if the app tracks overall workout statistics such as total steps, calories burned, and distance covered.

**\*\*Test Case 5:\*\*** Verify that users can filter logs by date and workout type.

**\*\*Test Case ID:\*\*** FITR-5

**\*\*Test Case Title:\*\*** Filter Logs by Date and Type

**\*\*Test Case Description:\*\*** Tests the functionality of filtering workout logs by date and type.

**\*\*Test Data:\*\*** Various workout dates and types

**\*\*Test Steps:\*\***

- Access the Workout Log screen.
- Select the desired filter criteria: date or workout type.
- Verify that the filtered results are accurate and match the chosen criteria.

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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 ID:\*\* FT-GS-001**

**\*\*Test Case Title:\*\* Verify that users can set goals for various fitness metrics.**

**\*\*Test Case Description:\*\* This test case verifies the functionality of setting goals for steps taken, calories burned, distance traveled, heart rate, and weight loss.**

**\*\*Test Suite:\*\* Goal Setting**

**\*\*Test Priority:\*\* High**

**\*\*Preconditions:\*\* User account created, fitness tracking features enabled.**

**\*\*Test Data:\*\* N/A**

**\*\*Test Steps:\*\***

- Open the Goal Setting screen.
- Select a fitness metric from the available options.
- Enter a specific goal amount.
- Set a deadline for achieving the goal.
- Review and confirm the goal setting.

**\*\*Postconditions:\*\* Goal is listed in the "Goals" section of the app.**

**\*\*Expected Result:\*\* The goal is successfully saved and displayed in the app.**

**\*\*Severity:\*\* Minor**

**\*\*Priority:\*\* High**

**\*\*Type of Testing:\*\* Functional Testing**

**\*\*Test Case ID:\*\* FT-GS-002**

**\*\*Test Case Title:\*\* Verify that progress tracking is available for each goal.**

**\*\*Test Case Description:\*\* This test case verifies that users can track their progress towards their set goals and receive motivational feedback.**

**\*\*Test Steps:\*\***

- Select a previously set fitness goal.
- Monitor the progress bar showing the percentage completion of the goal.
- Receive automated updates and motivational messages.

**\*\*Expected Result:\*\* Progress is accurately tracked and visualized on the app.**

**\*\*Severity:\*\* Minor**

**\*\*Priority:\*\* Medium**

**\*\*Type of Testing:\*\* Functional Testing**

**\*\*Test Case ID:\*\* FT-GS-003**

**\*\*Test Case Title:\*\* Verify that users receive motivational feedback and reminders.**

**\*\*Test Case Description:\*\* This test case verifies the delivery of motivational quotes and reminders to encourage users during their journey.**

**\*\*Test Steps:\*\***

- Set a fitness goal.
- Receive uplifting messages and reminders via push notifications.
- Review motivational content within the app.

**\*\*Expected Result:\*\* Users receive regular and encouraging feedback to stay motivated.**

**\*\*Severity:\*\* Minor**

**\*\*Priority:\*\* Medium**

**\*\*Type of Testing:\*\* Functional Testing**



**\*\*Test Case ID:\*\* FT-GS-004**

**\*\*Test Case Title:\*\* Verify that goals can be adjusted or updated as needed.**

**\*\*Test Case Description:\*\* This test case verifies the ability to modify previously set fitness goals.**

**\*\*Test Steps:\*\***

- Select a previously set fitness goal.
- Adjust the goal amount or deadline.
- Update the goal with new parameters.

**\*\*Expected Result:\*\* The goal is updated without creating a new goal entry.**

**\*\*Severity:\*\* Minor**

**\*\*Priority:\*\* Medium**

**\*\*Type of Testing:\*\* Functional Testing**

**\*\*Test Case ID:\*\* FT-GS-005**

**\*\*Test Case Title:\*\* Verify that the app provides a summary of goal attainment.**

**\*\*Test Case Description:\*\* This test case verifies the functionality of summarizing goal achievements and providing insight to users.**

**\*\*Test Steps:\*\***

- Review the "Goals" section of the app.
- Identify completed goals and their completion dates.
- Access detailed reports on goal attainment.

**\*\*Expected Result:\*\* The app displays a summary of accomplished goals and relevant data.**

**\*\*Severity:\*\* Minor**

**\*\*Priority:\*\* Medium**

**\*\*Type of Testing:\*\* Functional Testing**

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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:\*\*** Verify that users can select workout plans based on fitness levels.

**\* \*\*Test Case ID:\*\*** FIT-WP-01

**\* \*\*Test Case Title:\*\*** Verify that users can filter plans based on fitness levels.

**\* \*\*Test Case Description:\*\*** Test that users can access plans tailored to different fitness levels (Beginner, Intermediate, Advanced).

**\* \*\*Test Data:\*\*** Fitness level selection options: Beginner, Intermediate, Advanced.

**\* \*\*Test Steps:\*\***

- Log in to the app.
- Go to the "Workout Plans" section.
- Select a fitness level from the filter options.
- Verify that only plans corresponding to the selected fitness level are displayed.

**\*\*Test Case 2:\*\*** Verify that workout plans include detailed exercise routines and schedules.

**\* \*\*Test Case ID:\*\*** FIT-WP-02

**\* \*\*Test Case Title:\*\*** Verify that plans include detailed exercise routines and schedules.

**\* \*\*Test Case Description:\*\*** Test that plan details contain specific exercise routines and their schedules for each phase of the plan.

**\* \*\*Test Data:\*\*** Select a sample workout plan.

**\* \*\*Test Steps:\*\***

- Select a workout plan from the list.
- Verify that the plan details page shows a structured exercise routine schedule.

**\*\*Test Case 3:\*\*** Verify that users can track adherence and progress within the plan.

\* \*\*Test Case ID:\*\* FIT-WP-03

\* \*\*Test Case Title:\*\* Verify that users can track adherence and progress within the plan.

\* \*\*Test Case Description:\*\* Test that users can monitor their adherence to the plan and record their progress for each exercise.

\* \*\*Test Data:\*\* Sample workout plan and exercise completion records.

\* \*\*Test Steps:\*\*

- Select a workout plan.
- Complete the assigned exercises during the plan.
- Verify that the app tracks the completion of exercises.

\*\*Test Case 4:\*\* Verify that the app provides notifications and reminders for workouts.

\* \*\*Test Case ID:\*\* FIT-WP-04

\* \*\*Test Case Title:\*\* Verify that the app provides notifications and reminders for workouts.

\* \*\*Test Case Description:\*\* Test that the app sends timely reminders for upcoming workouts and sends notifications when workout sessions are due.

\* \*\*Test Data:\*\* Reminder schedule and notification preferences settings.

\* \*\*Test Steps:\*\*

- Set up workout reminders.
- Verify that reminders appear on the scheduled date and time.

\*\*Test Case 5:\*\* Verify that users can adjust plans based on progress and preferences.

\* \*\*Test Case ID:\*\* FIT-WP-05

\* \*\*Test Case Title:\*\* Verify that users can adjust plans based on progress and preferences.

\* \*\*Test Case Description:\*\* Test that users can customize their plans based on their performance and preferences after reviewing progress reports.

\* \*\*Test Data:\*\* Sample workout plan and workout performance data.

\* \*\*Test Steps:\*\*

- Review workout progress report.
- Modify the plan schedule or exercise choices.
- Verify that changes are reflected in the plan details.

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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 subscribe to a community group.

**\* \*\*Test Data:\*\*** Username, password, community group name

**\* \*\*Test Steps:\*\***

- Login to the app with valid credentials.
- Navigate to the "Community" section.
- Click on "Join Community" button for the desired group.
- Verify successful subscription and membership confirmation.

**\* \*\*Expected Result:\*\*** User successfully joins the chosen community group.

**\*\*Test Case 2:\*\*** Verify that users can share progress updates and achievements within communities.

**\* \*\*Test Data:\*\*** Username, community group name, progress update/achievement text

**\* \*\*Test Steps:\*\***

- Join the chosen community group.
- Click on the "Share Update" button.
- Enter the desired update/achievement text.
- Verify that the update/achievement is published and visible to group members.

\* \*\*Expected Result:\*\* User's progress update/achievement is shared within the community.

\*\*Test Case 3:\*\* Verify that the app facilitates participation in community challenges.

\* \*\*Test Data:\*\* Community challenge name

\* \*\*Test Steps:\*\*

- Join the chosen community group.
- Identify and join an ongoing community challenge.
- Track participation and progress within the challenge.
- Verify the results and reward distribution.

\* \*\*Expected Result:\*\* User can actively participate in the chosen challenge.

\*\*Test Case 4:\*\* Verify that users can offer and receive support and encouragement within communities.

\* \*\*Test Data:\*\* Username of other community member

\* \*\*Test Steps:\*\*

- Send a message of support or encouragement to another community member.
- Receive and respond to support messages from other users.

\* \*\*Expected Result:\*\* Users can exchange supportive messages and encouragement within the community.

\*\*Test Case 5:\*\* Verify that community activity and engagement are tracked and displayed.

\* \*\*Test Data:\*\* Community group name

\* \*\*Test Steps:\*\*

- Join the chosen community group.
- Engage in various activities within the group.
- Check the community dashboard for activity tracking and engagement statistics.

**\*\*Expected Result:\*\*** Community activity and engagement metrics are accurately tracked and displayed.

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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 Description:\*\*** Test the app's ability to connect and sync data with multiple different wearable devices simultaneously.

**\*\*Test Data:\*\*** Fitbit Inspire 3, Apple Watch Series 7, Samsung Galaxy Watch 5

**\*\*Test Steps:\*\***

- Launch the app.
- Pair each wearable device with the app individually.
- Verify that data from each device is displayed on the app's dashboard.

**\*\*Test Case 2:\*\*** Verify that users can sync activity data from their wearables.

**\*\*Test Case Description:\*\*** Test the accuracy and completeness of data syncing from various wearable devices.

**\*\*Test Data:\*\*** 10,000 steps, 500 calorie burn, 5 miles distance

**\*\*Test Steps:\*\***

- Track an activity session using a wearable device.
- Open the Fitness Tracker App.

- Verify that the synced data matches the activity tracked by the wearable device.

**\*\*Test Case 3:\*\*** Verify that the app provides real-time data updates from wearables.

**\*\*Test Case Description:\*\*** Test the responsiveness and timeliness of data updates from connected wearable devices.

**\*\*Test Data:\*\*** Heart rate increase during exercise

**\*\*Test Steps:\*\***

- Start an activity session with heart rate monitoring enabled.
- Engage in physical exercise.
- Observe the real-time updates of heart rate on the app.

**\*\*Test Case 4:\*\*** Verify that wearable data includes steps, heart rate, and calories burned.

**\*\*Test Case Description:\*\*** Test the completeness and accuracy of the data synchronization process for various metrics.

**\*\*Test Data:\*\*** 10,000 steps, 500 calorie burn, 5 miles distance, 120 BPM heart rate

**\*\*Test Steps:\*\***

- Track an activity session using a wearable device.
- Review the synced data on the Fitness Tracker App.
- Ensure that step count, calorie burn, distance, and heart rate are recorded correctly.

**\*\*Test Case 5:\*\*** Verify that users can troubleshoot connectivity issues with wearables.

**\*\*Test Case Description:\*\*** Test the app's ability to diagnose and resolve common connectivity issues with wearable devices.

**\*\*Test Data:\*\*** Bluetooth signal interference, device pairing issues

**\*\*Test Steps:\*\***

- Simulate connectivity issues with the wearable device.
- Initiate the app's troubleshooting process.
- Verify that the app provides helpful feedback and suggestions to resolve the issue.

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**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: Valid Water Intake Logging\*\***

\* \*\*Test Case ID:\*\* FIT-WC-001

\* \*\*Test Case Title:\*\* Verify that users can log their daily water intake.

\* \*\*Test Case Description:\*\* This test case verifies that users can successfully input various amounts of water throughout the day and that the app records the intake accurately.

\* \*\*Test Suite:\*\* Water Intake Tracking

\* \*\*Test Priority:\*\* High

\* \*\*Preconditions:\*\* User has created an account and is logged in to the app.

\* \*\*Test Data:\*\* Various amounts of water (1L, 1.5L, 2L)

\* \*\*Test Steps:\*\*

- Open the Water Intake tracker.
- Enter different amounts of water.
- Verify that the recorded volume is saved and displayed correctly.

\* \*\*Expected Result:\*\* The app successfully records and displays the water intake accurately.

\* \*\*Severity:\*\* Minor

\* \*\*Priority:\*\* High

## \*\*Test Case 2: Calculation of Total Daily Intake\*\*

\* \*\*Test Case ID:\*\* FIT-WC-002

\* \*\*Test Case Title:\*\* Verify that the app calculates total water consumption for the day.

\* \*\*Test Case Description:\*\* This test case verifies that the app calculates and displays the total water intake for the entire day based on the logged volumes.

\* \*\*Test Suite:\*\* Water Intake Tracking

\* \*\*Test Priority:\*\* Medium

\* \*\*Preconditions:\*\* User has logged multiple water inputs throughout the day.

\* \*\*Test Data:\*\* N/A

\* \*\*Test Steps:\*\*

- Review the "Daily Intake" section of the Water Intake tracker.
- Verify that the displayed total accurately reflects the sum of all logged water volumes.

\* \*\*Expected Result:\*\* The app displays the total water intake for the day.

## \*\*Test Case 3: Setting Daily Hydration Goal\*\*

\* \*\*Test Case ID:\*\* FIT-WC-003

\* \*\*Test Case Title:\*\* Verify that users can set daily hydration goals.

\* \*\*Test Case Description:\*\* This test case verifies that users can set custom daily hydration goals and receive reminders to drink water.

\* \*\*Test Suite:\*\* Water Intake Tracking

\* \*\*Test Priority:\*\* Medium

\* \*\*Preconditions:\*\* User has logged at least one water intake.

\* \*\*Test Data:\*\* Various daily hydration goals (2L, 3L, 4L)

\* \*\*Test Steps:\*\*

- Access the Water Intake settings.
- Select "Set Daily Goal."
- Input different daily hydration goals.
- Verify that the set goal is reflected in the app's reminders and progress tracking.

\* \*\*Expected Result:\*\* Users can set customized daily hydration goals.

#### \*\*Test Case 4: Water Reminder Notifications\*\*

\* \*\*Test Case ID:\*\* FIT-WC-004

\* \*\*Test Case Title:\*\* Verify that reminders are provided to encourage regular water intake.

\* \*\*Test Case Description:\*\* This test case verifies that the app sends timely reminders to users to drink water throughout the day, at the frequency they set.

\* \*\*Test Suite:\*\* Water Intake Tracking

\* \*\*Test Priority:\*\* High

\* \*\*Preconditions:\*\* User has set a daily hydration goal.

\* \*\*Test Data:\*\* Specific time interval for reminders (30 minutes, 1 hour, 2 hours)

\* \*\*Test Steps:\*\*

- Set a specific time interval for water reminders.
- Wait for the designated time period.
- Verify that an alert or notification reminds the user to drink water.

\* \*\*Expected Result:\*\* The app provides timely reminders to encourage regular water intake.

**\*\*Test Case 5: Hydration Progress Tracking\*\***

\* \*\*Test Case ID:\*\* FIT-WC-005

\* \*\*Test Case Title:\*\* Verify that users can view hydration progress and trends.

\* \*\*Test Case Description:\*\* This test case verifies that the app tracks and displays trends in water intake over time.

\* \*\*Test Suite:\*\* Water Intake Tracking

\* \*\*Test Priority:\*\* Medium

\* \*\*Preconditions:\*\* User has logged water intake data for multiple days.

\* \*\*Test Data:\*\* N/A

\* \*\*Test Steps:\*\*

- Access the Water Intake history section.
- Verify that the app displays trends and summaries of water intake over time.

\* \*\*Expected Result:\*\* The app provides insights into hydration patterns and trends.

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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: Positive - Basic Meal Logging\*\***

\* **\*\*Test Case ID:\*\*** NUT-1

\* **\*\*Test Case Title:\*\*** Verify that users can log daily meals and snacks.

\* **\*\*Test Case Description:\*\*** Test the ability to add meals and snacks to the nutrition tracker, ensuring accurate recording of date, time, and food/snack details.

\* **\*\*Test Suite:\*\*** Nutrition Tracking

\* **\*\*Test Priority:\*\*** High

\* **\*\*Preconditions:\*\*** User has created an account and logged into the app.

\* **\*\*Test Data:\*\*** Various meals and snacks with different macronutrient compositions.

\* **\*\*Test Steps:\*\***



1. Launch the nutrition tracker.
2. Tap ?Add Meal/Snack?.
3. Enter details of the meal/snack.
4. Verify that the information is saved.

\* \*\*Expected Result:\*\* Meal/snack information is saved and displayed in the nutrition tracker.

\* \*\*Severity:\*\* Major

\* \*\*Priority:\*\* High

**\*\*Test Case 2: Negative - Invalid Meal Input\*\***

\* \*\*Test Case ID:\*\* NUT-2

\* \*\*Test Case Title:\*\* Verify that the app rejects invalid meal entries.

\* \*\*Test Case Description:\*\* Test that the app correctly handles and displays errors for invalid meal inputs, such as unusual characters or exceeding field limits.

\* \*\*Test Suite:\*\* Nutrition Tracking

\* \*\*Test Priority:\*\* Medium

\* \*\*Preconditions:\*\* User has accessed the nutrition tracker.

\* \*\*Test Data:\*\* Special characters, excessively long entries.

\* \*\*Test Steps:\*\*

1. Launch the nutrition tracker.
2. Attempt to add an invalid meal/snack entry.
3. Observe the error message displayed.

\* \*\*Expected Result:\*\* An appropriate error message is shown, highlighting the input violation.

**\*\*Test Case 3: Positive - Macronutrient Calculation\*\***

\* \*\*Test Case ID:\*\* NUT-3

\* \*\*Test Case Title:\*\* Verify that the app calculates macronutrient intake.

\* \*\*Test Case Description:\*\* Test the accuracy of macronutrient (carbs, fats, proteins) calculation for different meals/snacks.

\* \*\*Test Suite:\*\* Nutrition Tracking

\* \*\*Test Priority:\*\* Medium

\* \*\*Preconditions:\*\* User has logged several meals/snacks with known macronutrient values.

\* \*\*Test Data:\*\* Test data from multiple sources to validate calculation accuracy.

\* \*\*Test Steps:\*\*

1. Track multiple meals/snacks with different macronutrient values.
2. Verify that the app calculates and displays the total macronutrient intake.

\* \*\*Expected Result:\*\* The calculated macronutrient intake is accurate compared to the known values.

\*\*Additional Test Cases (2):\*\*

- \*\*Test Case 4:\*\* Verify that users can set and track personalized nutritional goals.
- \*\*Test Case 5:\*\* Verify that the app provides relevant nutritional information and suggestions for achieving fitness goals.

\*\*Note:\*\* This is only a partial set of test cases. Additional test cases can be created to further cover other acceptance criteria and functionalities of the Nutrition Tracking feature.

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## Fitness Tracker App

### **Project description -**

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

### **Feature name -**

Progress Reports

### **Feature description -**

Users receive regular progress reports and summaries summarizing their activity levels, workout performance, and goal attainment. Progress reports highlight achievements, trends, and areas for improvement, empowering users to make informed decisions and adjustments to their fitness routines.

### **Userstory title -**

As a user, I want to receive progress reports so that I can track my achievements and identify areas for improvement.

### **Acceptance criteria -**

['Users receive weekly and monthly progress reports.', 'Reports include activity levels, workout performance, and goal attainment.', 'Users can view detailed breakdowns of achievements and trends.', 'The app provides recommendations based on report findings.', 'Users can customize the frequency and content of reports.']

### **Generated Test Cases:**

## Fitness Tracker App - Progress Reports Test Cases

**\*\*Test Case 1:\*\***

**\*\*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:\*\*** N/A

**\*\*Test Steps:\*\***

- Open the app and navigate to the "Progress Reports" section.
- Verify that a weekly progress report is displayed.
- Check that the report includes activity levels, workout performance, and goal attainment data.

**\*\*Expected Result:\*\*** The weekly progress report is generated and displayed correctly.

**\*\*Test Case 2:\*\***

**\*\*Test Case ID:\*\*** FT-PR-02

**\*\*Test Case Title:\*\*** Verify that monthly progress reports include detailed breakdowns of achievements and trends.

**\*\*Test Case Description:\*\*** This test case ensures that monthly reports provide detailed breakdowns of achievements and trends.

**\*\*Test Data:\*\*** N/A

**\*\*Test Steps:\*\***

- Review a monthly progress report.
- Verify that the report includes detailed breakdowns of achievements and trends for each tracked metric.
- Check if the report highlights significant achievements and patterns.

**\*\*Expected Result:\*\*** Monthly progress reports provide detailed insights into achievements and trends.

**\*\*Test Case 3:\*\***

**\*\*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 offers recommendations based on the data shown in the progress reports.

**\*\*Test Data:\*\*** N/A

**\*\*Test Steps:\*\***

- Generate a progress report and review the recommendations provided.
- Check if the recommendations align with the reported data and trends.
- Verify that the recommendations are relevant to the user's fitness goals.

**\*\*Expected Result:\*\*** The app offers personalized recommendations based on progress report findings.

**\*\*Test Case 4:\*\***

**\*\*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 ensures that users have control over the frequency and content of their reports.

**\*\*Test Data:\*\*** N/A

**\*\*Test Steps:\*\***

- Go to settings and locate the "Progress Reports" section.
- Modify the frequency of report generation.
- Choose preferred content for the reports.

**\*\*Expected Result:\*\*** Users can customize the frequency and content of their progress reports.

**\*\*Test Case 5:\*\***

**\*\*Test Case ID:\*\* FT-PR-05**

**\*\*Test Case Title:\*\* Verify that progress reports are accessible on various devices and platforms.**

**\*\*Test Case Description:\*\* This test case ensures that reports are accessible across different devices and platforms.**

**\*\*Test Data:\*\* N/A**

**\*\*Test Steps:\*\***

- Access the app from different devices (desktop, mobile, tablet).
- Generate a progress report on each device.
- Check if the report is displayed correctly and accessible on all devices.

**\*\*Expected Result:\*\* Progress reports are accessible and display consistently across all supported devices and platforms.**

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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:\*\*** FIT-001

**\*\*Test Case Description:\*\*** Validates the process of joining different types of challenges available in the app.

**\*\*Test Suite:\*\*** Functional Testing

**\*\*Test Priority:\*\*** High

**\*\*Preconditions:\*\*** User has logged into the app, internet connection available.

**\*\*Test Data:\*\*** Multiple active challenges with different criteria.

**\*\*Test Steps:\*\***

- Navigate to the "Challenges" section.
- Select a specific challenge and review its details.
- Click on the "Join Challenge" button.
- Verify that the user's progress within the challenge is tracked.

**\*\*Postconditions:\*\*** User's joined the chosen challenge.

**\*\*Expected Result:\*\*** User successfully joins the challenge and their progress is reflected in the app.

**\*\*Severity:\*\*** Medium

**\*\*Priority:\*\*** High

**\*\*Test Case 2:\*\*** Verify that challenges have clear objectives and rules.

**\*\*Test Case ID:\*\*** FIT-002

**\*\*Test Case Description:\*\*** Assesses the clarity and completeness of challenge specifications.

**\*\*Test Suite:\*\*** Functional Testing

**\*\*Test Priority:\*\*** Medium

**\*\*Preconditions:\*\*** User has joined a challenge.

**\*\*Test Data:\*\*** Specific challenge selected in Test Case 1.



**\*\*Test Steps:\*\***

- Review the challenge details and target parameters.
- Verify that objectives and rules are clearly outlined.
- Check for presence of any additional guidelines or requirements.

**\*\*Expected Result:\*\*** Challenge objectives and rules are clearly defined and accessible.

**\*\*Severity:\*\*** Low

**\*\*Priority:\*\*** Medium

**\*\*Test Case 3:\*\*** Verify that users can track their progress within the challenge.

**\*\*Test Case ID:\*\*** FIT-003

**\*\*Test Case Description:\*\*** Tests the functionality for tracking individual performance within a challenge.

**\*\*Test Suite:\*\*** Functional Testing

**\*\*Test Priority:\*\*** High

**\*\*Preconditions:\*\*** User has joined a challenge.

**\*\*Test Data:\*\*** N/A

**\*\*Test Steps:\*\***

- Track activity during a challenge period.

- Verify that the app updates and displays progress in real-time.
- Review individual performance statistics and compare it against others.

**\*\*Expected Result:\*\*** Progress within the challenge is accurately reflected and accessible.

**\*\*Severity:\*\*** Medium

**\*\*Priority:\*\*** High

**\*\*Continue creating test cases for the remaining acceptance criteria, following the provided template.\*\***

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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:\*\* DFT-1**

**\* \*\*Test Case Title:\*\* Verify that users can select which metrics to display on their dashboard**

**\* \*\*Test Case Description:\*\* This test case verifies that users can choose which fitness metrics from the available list to display on their personalized dashboard.**

**\* \*\*Test Suite:\*\* Functional Testing**

**\* \*\*Test Priority:\*\* High**

**\* \*\*Preconditions:\*\* User has logged in to the app and reached the dashboard page.**

**\* \*\*Test Data:\*\* Steps/calories burned, distance, heart rate, step count**

**\* \*\*Test Steps:\*\***

1. Navigate to the dashboard page.
2. Select desired metrics from the available list.
3. Verify that the selected metrics are displayed on the dashboard.

**\* \*\*Postconditions:\*\* N/A**

\* \*\*Expected Result:\*\* The chosen metrics are displayed on the dashboard.

\* \*\*Severity:\*\* Minor

\* \*\*Priority:\*\* High

**\*\*Test Case 2: Verify that the app allows customization of dashboard layout and theme\*\***

\* \*\*Test Case ID:\*\* DFT-2

\* \*\*Test Case Title:\*\* Verify that the app allows customization of dashboard layout and theme

\* \*\*Test Case Description:\*\* This test case verifies that users can customize the layout and theme of their dashboards to prioritize specific metrics and enhance readability.

\* \*\*Test Suite:\*\* Functional Testing

\* \*\*Test Priority:\*\* Medium

\* \*\*Preconditions:\*\* User has saved their chosen metrics on the dashboard.

\* \*\*Test Data:\*\* N/A

\* \*\*Test Steps:\*\*

1. Navigate to the dashboard page.
2. Click on the "Customize Dashboard" option.
3. Arrange and resize the displaying metrics.
4. Change the dashboard theme.
5. Verify that the changes are saved and reflected on the dashboard.

\* \*\*Postconditions:\*\* N/A

\* \*\*Expected Result:\*\* The dashboard layout and theme are customizable as desired.

\* \*\*Severity:\*\* Minor

\* \*\*Priority:\*\* Medium

**\*\*Test Case 3: Verify that users can save and update their dashboard settings\*\***

**\* \*\*Test Case ID:\*\* DFT-3**

**\* \*\*Test Case Title:\*\* Verify that users can save and update their dashboard settings**

**\* \*\*Test Case Description:\*\* This test case verifies that users can save their current dashboard configuration and update it as needed.**

**\* \*\*Test Suite:\*\* Functional Testing**

**\* \*\*Test Priority:\*\* High**

**\* \*\*Preconditions:\*\* User has customized their dashboard layout and theme.**

**\* \*\*Test Data:\*\* N/A**

**\* \*\*Test Steps:\*\***

1. Click on the "Save Dashboard" button.
2. Make changes to the dashboard layout or theme.
3. Click on the "Update Dashboard" button.
4. Verify that the changes are saved and reflected on the dashboard.

**\* \*\*Postconditions:\*\* N/A**

**\* \*\*Expected Result:\*\* Dashboard settings are saved and updated successfully.**

**\* \*\*Severity:\*\* Minor**

**\* \*\*Priority:\*\* High**

**\*\*Additional Test Cases:\*\***

- Verify that dynamic dashboard displays updates in real-time (DFT-4)
- Verify that the dashboard resets to default settings correctly (DFT-5)

**\*\*Note:\*\*** This is just a sample of 5 test cases. Additional test cases can be created to cover other functionalities and edge cases related to the customizable dashboards feature.

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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:\*\*** Verify that users can share workout summaries on multiple social media platforms.

**\* \*\*Test Case ID:\*\*** FTSOC-001

**\* \*\*Test Case Title:\*\*** Share Workout Summary on Multiple Platforms

**\* \*\*Test Case Description:\*\*** This test case verifies that users can successfully share their workout summaries on Facebook, Twitter, and Instagram.

**\* \*\*Test Data:\*\*** Sample workout summary data

**\* \*\*Test Steps:\*\***

1. Login to the fitness tracker app.
2. Complete a workout.
3. Navigate to the "Social Share" section.
4. Select the desired platforms and share the workout summary.

**\* \*\*Expected Result:\*\*** The workout summary is successfully shared on all selected platforms.

**\*\*Test Case 2:\*\*** Verify that the app supports sharing achievements on social media.

**\* \*\*Test Case ID:\*\*** FTSOC-002

**\* \*\*Test Case Title:\*\*** Share Achievements on Social Media

**\* \*\*Test Case Description:\*\*** This test case verifies that users can share their achievements on social media platforms.

**\* \*\*Test Data:\*\*** Sample achievement data

**\* \*\*Test Steps:\*\***

1. Achieve a fitness goal within the app.
2. Navigate to the "Social Share" section.

3. Verify that achievements are displayed for sharing.

4. Select the desired platforms and share the achievements.

\* \*\*Expected Result:\*\* The achievements are successfully shared on all selected platforms.

**\*\*Test Case 3:\*\*** Verify that users can customize the content and format of shared posts.

\* \*\*Test Case ID:\*\* FTSOC-003

\* \*\*Test Case Title:\*\* Customize Shared Post Content

\* \*\*Test Case Description:\*\* This test case verifies that users can customize the content and format of their shared posts.

\* \*\*Test Data:\*\* Sample workout data and text content

\* \*\*Test Steps:\*\*

1. Complete a workout.
2. Navigate to the "Social Share" section.
3. Select the desired platforms.
4. Edit the title, description, and hashtags of the shared post.

\* \*\*Expected Result:\*\* The shared post is customized with the user-defined content and format.

**\*\*Test Case 4:\*\*** Verify that sharing features are seamlessly integrated with social media platforms.

\* \*\*Test Case ID:\*\* FTSOC-004

\* \*\*Test Case Title:\*\* Seamless Integration with Social Media

\* \*\*Test Case Description:\*\* This test case verifies that the sharing features are seamlessly integrated with the target social media platforms.

\* \*\*Test Data:\*\* N/A



\* \*\*Test Steps:\*\*

- 1. Connect the fitness tracker app to the desired social media accounts.
- 2. Share a workout summary or achievement.

\* \*\*Expected Result:\*\* The share process is seamless and successful, without authentication or connection issues.

\*\*Test Case 5:\*\* Verify that users can track the engagement of their shared posts.

\* \*\*Test Case ID:\*\* FTSOC-005

\* \*\*Test Case Title:\*\* Track Social Media Engagement

\* \*\*Test Case Description:\*\* This test case verifies that users can track the engagement of their shared posts on social media platforms.

\* \*\*Test Data:\*\* N/A

\* \*\*Test Steps:\*\*

- 1. Share a workout summary or achievement.
- 2. Monitor the engagement metrics (likes, comments, shares) within the app.

\* \*\*Expected Result:\*\* The app displays accurate and updated engagement metrics for shared posts.

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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 & Recovery Tracking Test Cases**

**\*\*Test Case 1:\*\*** Verify that users can log rest days

**\*\*Test Case ID:\*\*** FT-REST-01

**\*\*Test Case Description:\*\*** This test case verifies that users can successfully log rest days in the app, including date, duration, and any additional notes.

**\*\*Test Data:\*\*** Date, Duration, Notes

**\*\*Test Steps:\*\***

1. Launch the app and navigate to the Rest & Recovery section.
2. Click on the "Log Rest Day" button.

3. Enter the date and duration of the rest day.

4. Add any relevant notes.

5. Click on the "Save" button.

**\*\*Expected Result:\*\*** The rest day is logged and displayed in the rest & recovery history.

**\*\*Test Case 2:\*\*** Verify that the app tracks resting heart rate

**\*\*Test Case ID:\*\*** FT-REST-02

**\*\*Test Case Description:\*\*** This test case ensures that the app accurately tracks resting heart rate during rest days.

**\*\*Preconditions:\*\*** User has logged a rest day.

**\*\*Test Data:\*\*** Resting heart rate data from a wearable device.

**\*\*Test Steps:\*\***

1. Wear a wearable device with heart rate monitoring capabilities.

2. Log a rest day on the app.

3. Rest for a period of time.

4. Review the resting heart rate data in the app.

**\*\*Expected Result:\*\*** The app displays the accurate resting heart rate data from the wearable device.

**\*\*Test Case 3:\*\*** Verify that recovery recommendations are generated

**\*\*Test Case ID:\*\*** FT-REST-03

**\*\*Test Case Description:\*\*** This test case confirms that the app provides personalized recovery recommendations based on user activity levels.

**\*\*Test Data:\*\*** Activity data from wearable device.

**\*\*Test Steps:\*\***

1. Log various activities in the app, including high-intensity workouts and moderate-intensity exercise.

2. Review the recovery recommendations in the app.

**\*\*Expected Result:\*\*** The app suggests appropriate recovery activities and durations based on the logged

activities.

**\*\*Test Case 4:\*\*** Verify that the app alerts for insufficient recovery time

**\*\*Test Case ID:\*\*** FT-REST-04

**\*\*Test Case Description:\*\*** This test case ensures that the app alerts users when their recovery time is insufficient for optimal health.

**\*\*Preconditions:\*\*** User has logged several high-intensity workouts.

**\*\*Test Data:\*\*** N/A

**\*\*Test Steps:\*\***

1. Log several high-intensity workouts in the app.
2. Review the recovery recommendations and estimated recovery time.
3. Ensure an alert is triggered if the recommended recovery time is insufficient.

**\*\*Expected Result:\*\*** The app displays an alert highlighting the need for adequate recovery time.

**\*\*Test Case 5:\*\*** Verify that users can view trends & history of recovery data

**\*\*Test Case ID:\*\*** FT-REST-05

**\*\*Test Case Description:\*\*** This test case confirms that users can access and analyze their historical recovery data.

**\*\*Test Data:\*\*** Historical recovery data from the app.

**\*\*Test Steps:\*\***

1. Access the recovery data section of the app.
2. Review trends in resting heart rate, sleep quality, and recovery duration.
3. Export or print recovery data for further analysis.

**\*\*Expected Result:\*\*** The app provides comprehensive visualizations and analytics of the user's recovery data over time.

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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 -**

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 ID:\*\* FT-Audio-01**

**\*\*Test Case Description:\*\*** This test case ensures users can select from a diverse range of audio-guided workouts of varying types and intensities.

**\*\*Test Data:\*\*** Various workout types and intensities

**\*\*Test Steps:\*\***

- Launch the app and navigate to the "Audio Coaching" section.
- Verify different categories of workouts are available (e.g., cardio, strength, yoga).
- Select a specific workout and confirm its duration and intensity level.

**\*\*Expected Result:\*\*** A list of available workouts for the selected category and intensity appears.

**\*\*Severity:\*\*** Minor

**\*\*Priority:\*\*** High

**\*\*Test Case 2:\*\*** Verify that audio coaching includes motivational messages and coaching cues

**\*\*Test Case ID:\*\*** FT-Audio-02

**\*\*Test Case Description:\*\*** This test case checks if audio coaching includes uplifting and encouraging messages and actionable coaching cues.

**\*\*Test Data:\*\*** N/A

**\*\*Test Steps:\*\***

- Choose a random audio-guided workout.
- Pay attention to the audio guidance during the workout.
- Verify that motivational messages and coaching cues are clearly audible and relevant to the specific exercise.

**\*\*Expected Result:\*\*** Audio coaching provides relevant motivational messages and coaching cues during the workout.

**\*\*Severity:\*\*** Medium

**\*\*Priority:\*\*** High

**\*\*Test Case 3:\*\*** Verify that users can choose coaching based on workout type and intensity

**\*\*Test Case ID:\*\*** FT-Audio-03

**\*\*Test Case Description:\*\*** This test case ensures users can select coaching tailored to their chosen workout type and intensity level.

**\*\*Test Data:\*\*** Various workout types and intensity levels

**\*\*Test Steps:\*\***

- Select a specific workout type and intensity level.
- Verify that the offered coaching aligns with the chosen workout parameters.

**\*\*Expected Result:\*\*** Coaching recommendations are relevant to the selected workout type and intensity.

**\*\*Severity:\*\*** Medium

**\*\*Priority:\*\*** High

**\*\*Test Case 4:\*\*** Verify that audio coaching integrates seamlessly with other app features

**\*\*Test Case ID:\*\*** FT-Audio-04

**\*\*Test Case Description:\*\*** This test case confirms that audio coaching seamlessly integrates with other app features like activity tracking and progress logging.

**\*\*Test Data:\*\*** N/A

**\*\*Test Steps:\*\***

- Start a guided workout.
- Track various metrics during the workout (e.g., heart rate, steps taken).
- Verify that audio coaching adapts to the tracked metrics and provides relevant guidance.

**\*\*Expected Result:\*\*** Audio coaching adapts to real-time data and offers personalized guidance based on tracked metrics.

**\*\*Severity:\*\*** Medium



**\*\*Priority:\*\* High**

**\*\*Test Case 5:\*\* Verify that users can control audio settings and preferences**

**\*\*Test Case ID:\*\* FT-Audio-05**

**\*\*Test Case Description:\*\* This test case confirms users can customize their audio settings and preferences for better control over the audio coaching experience.**

**\*\*Test Data:\*\* N/A**

**\*\*Test Steps:\*\***

- Access the audio settings menu.
- Modify volume levels, notifications, and playback options.
- Change the language and voice guidance settings.

**\*\*Expected Result:\*\* Users can customize their audio coaching settings according to their preferences.**

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**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

**\*\*Test Case 1:\*\*** Verify that the app integrates seamlessly with calorie counter apps and correctly imports calorie data.

**\*\*Test Case ID:\*\*** FIT-INT-001

**\*\*Test Case Title:\*\*** Verify seamless integration with calorie counter apps

**\*\*Test Case Description:\*\*** This test case verifies that the app can successfully import calorie data from popular calorie counter apps like MyFitnessPal and LoseIt.

**\*\*Test Data:\*\*** MyFitnessPal account credentials.

**\*\*Test Steps:\*\***

- Launch the Fitness Tracker App
- Open the settings menu and locate 'Health Apps' section.
- Select 'Connect with Calorie Counter'.
- Select MyFitnessPal as the desired app.
- Authorize the app to access calorie data.
- Verify that calorie data is automatically imported into the Fitness Tracker App.

**\*\*Expected Result:\*\*** Calorie data from MyFitnessPal is successfully imported and displayed in the Fitness Tracker App.

**\*\*Test Case 2:\*\*** Verify synchronization of heart rate data between the app and meditation apps.

**\*\*Test Case ID:\*\*** FIT-INT-002

**\*\*Test Case Title:\*\*** Verify synchronization of heart rate data with meditation apps

**\*\*Test Case Description:\*\*** This test case verifies that the app can wirelessly synchronize heart rate data from meditation apps like Headspace and Calm to the Fitness Tracker App.

**\*\*Test Data:\*\*** Headspace account credentials.

**\*\*Test Steps:\*\***

- Launch the Fitness Tracker App.
- Open the settings menu and locate 'Health Apps' section.
- Select 'Connect with Meditation App'.
- Select Headspace as the desired app.
- Authorize the app to access heart rate data.
- Start a meditation session using Headspace.
- Verify that heart rate data is transmitted to the Fitness Tracker App and displayed in real-time.

**\*\*Expected Result:\*\*** Heart rate data from Headspace is synchronized and displayed in the Fitness Tracker App.

**\*\*Test Case 3:\*\*** Verify the app provides a consolidated view of health metrics from connected apps.

**\*\*Test Case ID:\*\*** FIT-INT-003

**\*\*Test Case Title:\*\*** Verify consolidated view of health metrics

**\*\*Test Case Description:\*\*** This test case verifies that the app presents users with a comprehensive overview of their health data from connected apps in a clear and intuitive manner.

**\*\*Test Data:\*\*** Data from various connected apps.

**\*\*Test Steps:\*\***

- Open the 'Health Stats' section of the Fitness Tracker App.
- Verify that data from connected apps is displayed in relevant sections.
- Check for data points such as steps, calories, heart rate, and meditation sessions.

**\*\*Expected Result:\*\*** Health data from connected apps is consolidated and presented in a comprehensive and user-friendly manner.

**\*\*Additional Test Cases:\*\***

- Verify the app provides personalized recommendations based on combined health data.
- Verify data security and privacy settings for connected apps.
- Test integration with a variety of popular health apps across multiple platforms.
- Verify the performance of data synchronization in low-connectivity environments.
- Test the handling of errors and feedback messages during the integration process.

**\*\*Note:\*\*** This is a partial set of test cases to cover the acceptance criteria. Additional test cases can be developed based on specific requirements and testing goals.

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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 data.

**\*\*Test Case ID:\*\*** FT-BC-01

**\*\*Test Case Title:\*\*** Verify that users can log weight data.

**\*\*Test Case Description:\*\*** This test case verifies the functionality of logging weight values into the Fitness Tracker App.

**\*\*Test Suite:\*\*** Body Composition Tracking

**\*\*Test Priority:\*\*** High

**\*\*Preconditions:\*\*** User has created an account, logged into the app, and the Body Composition Tracking feature is enabled.

**\*\*Test Data:\*\*** 80 kg

**\*\*Test Steps:\*\***

1. Navigate to the Body Composition tracking section.
2. Click on the "Log Weight" button.
3. Enter the weight value (80 kg) in the provided field.
4. Click on the "Log" button.

**\*\*Expected Result:\*\*** The weight data is successfully logged and displayed in the user interface.

**\*\*Severity:\*\*** Minor

**\*\*Priority:\*\*** High

**\*\*Type of Testing:\*\*** Functional Testing

**\*\*Test Case 2:\*\*** Verify that the app calculates and displays BMI based on logged data.

**\*\*Test Case ID:\*\*** FT-BC-02

**\*\*Test Case Title:\*\*** Verify that the app calculates and displays BMI based on logged data.

**\*\*Test Case Description:\*\*** This test case verifies that the application automatically calculates Body Mass Index (BMI) based on logged weight values.

**\*\*Test Suite:\*\*** Body Composition Tracking

**\*\*Test Priority:\*\*** Medium

**\*\*Preconditions:\*\*** User has logged body weight data.

**\*\*Test Data:\*\*** N/A

**\*\*Test Steps:\*\***

1. Navigate to the Body Composition tracking section.
2. Review the logged weight data.
3. Verify that the application automatically calculates and displays the BMI value.

**\*\*Expected Result:\*\*** The app displays the calculated BMI value along with relevant data points.

**\*\*Severity:\*\*** Medium

**\*\*Priority:\*\*** Medium

**\*\*Test Case 3:\*\*** Verify that users can view trends and history of body composition changes.

**\*\*Test Case ID:\*\*** FT-BC-03

**\*\*Test Case Title:\*\*** Verify that users can view trends and history of body composition changes.

**\*\*Test Case Description:\*\*** This test case verifies the ability to track and visualize changes in body composition metrics over time.

**\*\*Test Suite:\*\*** Body Composition Tracking

**\*\*Test Priority:\*\*** High

**\*\*Preconditions:\*\*** User has logged body composition data over multiple sessions.

**\*\*Test Data:\*\*** N/A

**\*\*Test Steps:\*\***

1. Navigate to the Body Composition tracking section.
2. Select the desired time period (e.g., past month, past year).
3. Review the displayed graphs and trends of body composition changes.

**\*\*Expected Result:\*\*** The app displays visualized trends of tracked body composition metrics.

**\*\*Severity:\*\*** Minor

**\*\*Priority:\*\*** High

**\*\*Additional Test Cases:\*\***

- Verify that the app provides personalized recommendations based on body composition data (FT-BC-04)
- Verify that users can set goals for body composition metrics (FT-BC-05)
- Verify that the app tracks body fat percentage changes accurately (FT-BC-06)
- Verify that the app integrates with wearable devices to gather accurate body composition data (FT-BC-07)

**\*\*Note:\*\*** These test cases provide a starting point for comprehensive testing of the Body Composition Tracking feature. Additional test cases can be created to further validate the functionality, performance, and usability of the feature.

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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

**\*\*1. Verify that users can view detailed performance metrics for each workout.\*\***

- Test Data: Workout data with various durations, intensities, and metrics.

- Test Steps:

- Login to the app and select a completed workout.

- Verify that individual performance metrics are displayed, including steps taken, calories burned, distance traveled, and heart rate.
- Expected Result: All specified performance metrics are accurately displayed.

**\*\*2. Verify that the app provides trends and insights into workout intensity and duration.\*\***

- Test Data: Data from multiple workouts with varying intensity levels.
- Test Steps:
  - Select a range of workouts in the analytics section.
  - Verify that trend lines are generated for intensity and duration.
  - Check for insights and recommendations provided based on the trends.
- Expected Result: Relevant trends and insights are provided for intensity and duration metrics.

**\*\*3. Verify that users can track calorie burn and other health metrics.\*\***

- Test Data: Data from wearable device or fitness tracker.
- Test Steps:
  - Connect the app to a compatible wearable device.
  - Start a workout and track various health metrics (e.g., heart rate, temperature).
  - Verify that the app accurately records and displays calorie burn and other relevant metrics.
- Expected Result: Accurate tracking and display of calorie burn and other metrics.

**\*\*4. Verify that the app offers recommendations based on workout analysis.\*\***

- Test Data: Data from various workouts with different intensities and durations.
- Test Steps:
  - Analyze a completed workout and review the recommendations provided.
  - Verify that the recommendations align with the user's performance and goals.
- Expected Result: Relevant and personalized recommendations are offered based on workout analysis.

**\*\*5. Verify that users can compare current workouts with past performance.\*\***

- Test Data: Data from multiple completed workouts.
- Test Steps:
  - Select multiple workouts in the comparison section.
  - Verify that the app displays side-by-side comparisons of performance metrics.
  - Check for trend comparisons and performance improvement over time.
- Expected Result: Performance data can be efficiently compared across different workouts.

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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 Creation Template:\*\***

**\*\*Test Case ID:\*\*** FIT-WC-01

**\*\*Test Case Title:\*\*** Verify that the app displays current weather conditions for a given location.

**\*\*Test Case Description:\*\*** This test case verifies that the app correctly retrieves and displays current weather information for a specified location.

**\*\*Test Suite:\*\*** Weather Integration

**\*\*Test Priority:\*\*** High

**\*\*Preconditions:\*\*** User has enabled weather integration in the app.

**\*\*Test Data:\*\*** City name "London"

**\*\*Test Steps:\*\***

1. Open the app and navigate to the weather section.

2. Enter "London" in the location search field.

3. Verify that the weather conditions for London are displayed in real-time.

**\*\*Expected Result:\*\*** Current weather data for London is displayed accurately.

**\*\*Severity:\*\*** Minor

**\*\*Priority:\*\*** High

**\*\*Type of Testing:\*\*** Functional Testing

**\*\*Additional Test Cases:\*\***

**\*\*Test Case ID:\*\*** FIT-WC-02

**\*\*Test Case Title:\*\*** Verify that weather forecasts are updated in real-time.

**\*\*Test Case ID:\*\*** FIT-WC-03

**\*\*Test Case Title:\*\*** Verify that the app provides personalized recommendations based on weather conditions.

**\*\*Test Case ID:\*\*** FIT-WC-04

**\*\*Test Case Title:\*\*** Verify that the app sends weather alerts for extreme conditions.

**\*\*Test Case ID:\*\*** FIT-WC-05

**\*\*Test Case Title:\*\*** Verify that the weather integration feature handles invalid input and displays appropriate messages.

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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 1:\*\*** Verify that users can log their mood, energy levels, and motivation.

**\*\*Test Case ID:\*\*** FT-MT-01

**\*\*Test Case Description:\*\*** This test case verifies that users can input subjective ratings for mood, energy levels, and motivation before and after workouts.

**\*\*Test Data:\*\***

- Mood: Happy, Calm, Stressed
- Energy Level: High, Medium, Low
- Motivation: Determined, Inspired, Unmotivated

**\*\*Test Steps:\*\***

1. Launch the Mood Tracking feature.
2. Select mood, energy level, and motivation scores for pre-workout.
3. Complete a workout.
4. Input mood, energy level, and motivation scores for post-workout.

**\*\*Expected Result:\*\*** The app successfully captures and stores the mood and energy data for both pre- and post-workout.

**\*\*Test Case 2:\*\*** Verify that the app provides insights into mood and energy trends over time.

**\*\*Test Case ID:\*\*** FT-MT-02

**\*\*Test Case Description:\*\*** This test case ensures that the app generates reports and visualizations of mood and energy trends.

**\*\*Test Procedure:\*\***

1. Log mood and energy levels for multiple workouts.
2. Access the Mood Tracking report.
3. Review the plotted trends of mood and energy over time.

**\*\*Expected Result:\*\*** The app displays clear and informative trends and patterns in mood and energy levels.

**\*\*Test Case 3:\*\*** Verify that the app provides recommendations based on mood and energy data.

**\*\*Test Case ID:\*\*** FT-MT-03

**\*\*Test Case Description:\*\*** This test case verifies that the app suggests activities or motivational messages based on mood and energy levels.

**\*\*Test Procedure:\*\***

1. Input low energy levels and moderate motivation.
2. Access the Recommendations section.
3. Review the suggested activities or motivational quotes.

**\*\*Expected Result:\*\*** The app suggests low-impact exercises or motivational content to enhance energy and motivation.

**\*\*Test Case 4:\*\*** Verify that the app supports journaling for personal reflections on mood and workouts.

**\*\*Test Case ID:\*\*** FT-MT-04



**\*\*Test Case Description:\*\*** This test case ensures that users can note personal reflections and observations alongside their mood and workout data.

**\*\*Test Procedure:\*\***

1. Open the Mood Journal section.
2. Input a personal reflection for a specific workout.
3. Review previous journal entries.

**\*\*Expected Result:\*\*** The app allows users to capture and review personal insights alongside their mood and workout data.

**\*\*Test Case 5:\*\*** Verify that users can set goals for improving mood and energy levels.

**\*\*Test Case ID:\*\*** FT-MT-05

**\*\*Test Case Description:\*\*** This test case ensures that users can establish specific goals for enhancing their mood and energy.

**\*\*Test Procedure:\*\***

1. Open the Goal Setting section.
2. Create a goal to improve mood or energy by a certain amount.
3. Track progress and review previous goals.

**\*\*Expected Result:\*\*** The app allows users to set and track goals for improved mood and energy levels.

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## **Data - 99**

### **Project name -**

Recipe Sharing Platform

### **Project description -**

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

### **Feature name -**

Recipe Creation

### **Feature description -**

Users can create and share their own recipes on the platform, including ingredients, cooking instructions, and optional photos. This feature allows users to showcase their culinary creations and contribute to the platform's recipe database.

### **Userstory title -**

As a user, I want to create and share my own recipes so that I can showcase my culinary creations.

### **Acceptance criteria -**

['Users can input and save ingredients and cooking instructions.', 'Users can upload photos for their recipes.', 'Recipes are saved in the user's profile.', 'Recipes are accessible to other users on the platform.', 'Users receive a confirmation upon successful recipe submission.']

### **Generated Test Cases:**

## Test Cases for Recipe Creation Feature

**\*\*Test Case 1:\*\*** Verify that users can input and save ingredients and cooking instructions.

**\*\*Test Case ID:\*\*** RC-1

**\*\*Test Case Title:\*\*** Valid Recipe Input

**\*\*Test Case Description:\*\*** This test case verifies that users can successfully input and save ingredients and cooking instructions for their recipes.

**\*\*Test Data:\*\*** Recipe name, ingredients, instructions, optional photos

**\*\*Test Steps:\*\***

- Navigate to the Recipe Creation page.
- Input recipe name, ingredients, and cooking instructions.
- Attach optional photos.
- Click the "Save Recipe" button.

**\*\*Expected Result:\*\*** Recipe is saved successfully and displayed on the user's profile.

**\*\*Test Case 2:\*\*** Verify that users can upload photos for their recipes.

**\*\*Test Case ID:\*\*** RC-2

**\*\*Test Case Title:\*\*** Photo Upload Functionality

**\*\*Test Case Description:\*\*** This test case ensures that users can upload photos to their recipes.

**\*\*Test Data:\*\*** Image file in supported format

**\*\*Test Steps:\*\***

- Navigate to the Recipe Creation page.
- Select an image file from the device.
- Click the "Upload Photo" button.

**\*\*Expected Result:\*\*** The photo is uploaded and displayed alongside the recipe.

**\*\*Test Case 3:\*\*** Verify that recipes are saved in the user's profile.

**\*\*Test Case ID:\*\*** RC-3

**\*\*Test Case Title:\*\*** Recipe Persistence

**\*\*Test Case Description:\*\*** This test case confirms that uploaded recipes are saved in the user's profile and accessible on the platform.

**\*\*Test Steps:\*\***

- Create a recipe and upload a photo.
- Navigate to the user profile.
- Verify that the uploaded recipe is displayed under "My Recipes."

**\*\*Expected Result:\*\*** The recipe is saved in the user's profile and accessible on the platform.

**\*\*Test Case 4:\*\*** Verify that recipes are accessible to other users on the platform.

**\*\*Test Case ID:\*\*** RC-4

**\*\*Test Case Title:\*\*** Recipe Visibility

**\*\*Test Case Description:\*\*** This test case checks if uploaded recipes are visible to other platform users.

**\*\*Test Steps:\*\***

- Create a recipe and upload a photo.
- Share the recipe with other users.
- Other users can access and view the shared recipe.

**\*\*Expected Result:\*\*** Shared recipes are accessible to other platform users.

**\*\*Test Case 5:\*\*** Verify that users receive a confirmation upon successful recipe submission.

**\*\*Test Case ID:\*\*** RC-5

**\*\*Test Case Title:\*\*** Recipe Submission Confirmation

**\*\*Test Case Description:\*\*** This test case confirms that users receive a confirmation message upon successfully submitting a recipe.

**\*\*Test Steps:\*\***

- Create a recipe and upload a photo.

- Click the "Save Recipe" button.

**\*\*Expected Result:\*\*** A confirmation message is displayed, confirming 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**

#### **\*\*Test Case 1: Valid Keyword Search\*\***

\* \*\*Test Case ID:\*\* RD-1

\* \*\*Test Case Title:\*\* Verify that users can search for recipes using keywords and get relevant results

\* \*\*Test Case Description:\*\* This test case verifies that searching with valid keywords returns recipes containing those words in their titles, descriptions, or ingredients.

\* \*\*Test Data:\*\* "pasta"

\* \*\*Test Steps:\*\*

- Navigate to the Recipe Discovery page
- Enter "pasta" in the search field
- Verify that results contain recipes with "pasta" in their attributes

\* \*\*Expected Result:\*\* Relevant recipes containing the keyword "pasta" appear in the results

#### **\*\*Test Case 2: Invalid Keyword Search\*\***

\* \*\*Test Case ID:\*\* RD-2

\* \*\*Test Case Title:\*\* Verify that searching with invalid keywords returns no results

\* \*\*Test Case Description:\*\* This test case verifies that searching with nonsensical words returns no relevant results.

\* \*\*Test Data:\*\* "asdfasf"

\* \*\*Test Steps:\*\*

- Navigate to the Recipe Discovery page
- Enter "asdfasf" in the search field
- Verify that no results are displayed

\* \*\*Expected Result:\*\* No search results are returned for invalid keywords

**\*\*Test Case 3: Search by Cuisine Type\*\***

\* \*\*Test Case ID:\*\* RD-3

\* \*\*Test Case Title:\*\* Verify that users can filter search results by cuisine type

\* \*\*Test Case Description:\*\* This test case verifies that filtering by a specific cuisine type narrows the search results to those recipes associated with that cuisine.

\* \*\*Test Data:\*\* Italian

\* \*\*Test Steps:\*\*

- Navigate to the Recipe Discovery page
- Enter "pasta" in the search field
- Filter the results by "Italian" cuisine
- Verify that displayed recipes have Italian cuisine tags

\* \*\*Expected Result:\*\* Recipes with Italian cuisine tags are prioritized in the results

#### **\*\*Test Case 4: Search by Dietary Preference\*\***

**\* \*\*Test Case ID:\*\* RD-4**

**\* \*\*Test Case Title:\*\*** Verify that users can filter search results based on dietary preferences

**\* \*\*Test Case Description:\*\*** This test case verifies that filtering by a dietary preference narrows the search results to those recipes suitable for that diet.

**\* \*\*Test Data:\*\*** Vegan

**\* \*\*Test Steps:\*\***

- Navigate to the Recipe Discovery page
- Enter "pasta" in the search field
- Filter the results by "Vegan" dietary preference
- Verify that displayed recipes are suitable for vegans

**\* \*\*Expected Result:\*\*** Recipes with "Vegan" dietary tags are prioritized in the results

#### **\*\*Test Case 5: Advanced Search Functionality\*\***

**\* \*\*Test Case ID:\*\*** RD-5

**\* \*\*Test Case Title:\*\*** Verify that users can utilize advanced search options like category filters and ingredient limitations

**\* \*\*Test Case Description:\*\*** This test case verifies that utilizing multiple filters narrows the search results accurately.

**\* \*\*Test Data:\*\*** Pasta, Seafood

**\* \*\*Test Steps:\*\***

- Navigate to the Recipe Discovery page
- Enter "pasta" in the search field
- Filter results by "Seafood" category and "Garlic" ingredient



- Verify that displayed recipes contain "pasta" and include seafood and garlic ingredients

\* \*\*Expected Result:\*\* Targeted search results are displayed according to applied filters

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