

# Generated Test Cases via gemma-7b-it LLM Model and Few-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 Profiles

**\*\*1. Verify that users can add their name to their profiles\*\***

\* Test Case ID: USR-1

\* Test Case Description: This test case verifies that users can successfully add their name to their profiles.

\* Preconditions: User has created an account.

\* Test Data: "John Doe"

\* Test Steps:

- Navigate to profile settings
- Enter name field
- Click save changes

\* Expected Result: The user's name is updated in their profile.

**\*\*2. Verify that the profile picture upload supports standard image formats.\*\***

\* Test Case ID: USR-2

\* Test Case Description: This test case verifies that the system supports standard image formats for profile pictures.

\* Preconditions: User has created an account.

\* Test Data: PNG, JPG, GIF

\* Test Steps:

- Navigate to profile settings
- Select "Change profile picture"
- Choose a file of supported format

\* Expected Result: The selected image is uploaded and displayed on the profile.

**\*\*3. Verify that users can set privacy settings for each field of their profiles\*\***

\* Test Case ID: USR-3

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

\* Preconditions: User has created a profile.

\* Test Data: Various privacy settings

\* Test Steps:

- Navigate to profile settings
- Select privacy settings for each field

\* Expected Result: The chosen privacy setting is applied to the respective field.

**\*\*4. Verify that the profile is saved successfully\*\***

\* Test Case ID: USR-4

\* Test Case Description: This test case verifies that saving a profile is successful and confirms the user.

\* Preconditions: User has filled out profile information.

\* Test Data: Complete user profile

\* Test Steps:

- Navigate to profile settings
- Enter all required information
- Click save profile

\* Expected Result: A confirmation message appears and the user's profile is saved.

**\*\*5. Verify that users receive a notification upon saving their profiles\*\***

\* Test Case ID: USR-5

\* Test Case Description: This test case verifies that users receive a notification upon successfully saving their profiles.

\* Preconditions: User has completed profile information.

\* Test Data: No specific data needed

\* Test Steps:

- Navigate to profile settings
- Enter all required information
- Click save profile

\* Expected Result: A notification message pops up indicating successful profile saving.

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## **Data - 2**

### **Project name -**

Social Media Platform

### **Project description -**

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

### **Feature name -**

News Feed

### **Feature description -**

The news feed is a central feature of the social media platform where users can view a curated stream of

content from accounts they follow or are connected to. It typically displays posts, updates, photos, videos, and other media shared by friends, family, brands, and other users in chronological or algorithmically determined order.

### **Userstory title -**

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

### **Acceptance criteria -**

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

### **Generated Test Cases:**

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

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

**\*\*Test Case ID:\*\*** SM\_NewsFeed\_01

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

**\*\*Test Case Description:\*\*** Ensure that when users follow other users, their posts appear in chronological order on the news feed.

**\*\*Preconditions:\*\*** User is logged in, followed accounts exist.

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

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

- Follow several users.
- Create a post.
- Verify that the post appears on the news feed of followers.

**\*\*Expected Result:\*\*** The system displays posts from followed accounts on the news feed.

**\*\*Test Case 2:\*\*** Verify that content is displayed in chronological order on the news feed.

**\*\*Test Case ID:\*\*** SM\_NewsFeed\_02

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

**\*\*Test Case Description:\*\*** Ensure that content is displayed in reverse chronological order, with the most recent posts appearing at the top.

**\*\*Preconditions:\*\*** User is logged in.

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

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

- Create several posts with different timestamps.
- Verify that the most recent posts appear at the top of the news feed.

**\*\*Expected Result:\*\*** The system displays content in chronological order on the news feed.

**\*\*Test Case 3:\*\*** Verify that users can interact with posts on the news feed.

**\*\*Test Case ID:\*\*** SM\_NewsFeed\_03

**\*\*Test Case Title:\*\*** Verify that users can interact with posts on the news feed.

**\*\*Test Case Description:\*\*** Ensure that users can like, comment, and share posts on the news feed.

**\*\*Preconditions:\*\*** User is logged in, a post exists on the news feed.

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

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

- Like, comment, and share a post.
- Verify that the action is reflected on the post.

**\*\*Expected Result:\*\*** The system allows users to interact with posts on the news feed.

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

**\*\*Test Case ID:\*\*** SM\_NewsFeed\_04

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

**\*\*Test Case Description:\*\*** Ensure that the news feed automatically refreshes and displays new content as it becomes available.

**\*\*Preconditions:\*\*** User is logged in, actively following accounts.

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

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

- Publish a new post from a followed account.
- Verify that the new post appears on the news feed immediately.

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

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

**\*\*Test Case ID:\*\*** SM\_NewsFeed\_05

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

**\*\*Test Case Description:\*\*** Ensure that users can filter the news feed by post type (e.g., images, videos, text) or topic.

**\*\*Preconditions:\*\*** User is logged in.

**\*\*Test Data:\*\*** Different post types and relevant topics.

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

- Filter the news feed by post type or topic.
- Verify that only the relevant posts are displayed.

**\*\*Expected Result:\*\*** The system allows users to filter content based on type or topic.

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## **Data - 3**

### **Project name -**

Social Media Platform

### **Project description -**

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

### **Feature name -**

Messaging

### **Feature description -**

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

### **Userstory title -**

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

### **Acceptance criteria -**

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

### **Generated Test Cases:**

## Test Cases for Messaging Feature:

\*\*1. Verify that users can send text messages\*\*



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

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

**\*\*Test Data:\*\*** "Hello World!" message, User A and User B profiles

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

- Login as User A
- Navigate to User B's profile
- Click "Send Message" button
- Enter "Hello World!" in the message field
- Click "Send" button

**\*\*Expected Result:\*\*** The message "Hello World!" appears in User B's inbox.

**\*\*2. Verify that users can send images and videos\*\***

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

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

**\*\*Test Data:\*\*** Image file of a cat, video file of a short clip

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

- Login as User A
- Navigate to User B's profile
- Click "Send Message" button
- Click "Attach Files" button
- Select image/video file
- Click "Send" button

**\*\*Expected Result:\*\*** The selected image/video file appears as an attachment in User B's inbox.

**\*\*3. Verify that users can start private conversations\*\***

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

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

**\*\*Test Data:\*\*** User A and User C profiles

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

- Login as User A
- Click "Start New Chat" button
- Search for User C and select their profile
- Click "Chat" button

**\*\*Expected Result:\*\*** A private chat window opens with User C.

**\*\*4. Verify that messages show read receipts\*\***

**\*\*Test Case ID:\*\* SM-Messaging-4**

**\*\*Test Case Description:\*\*** This test case verifies that users receive read receipts when others reply to their messages.

**\*\*Test Data:\*\*** "Hi there!" message

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

- Login as User A
- Send a message to User B
- User B receives the message and replies
- Check "Seen" indicator next to User B's name in the chat list

**\*\*Expected Result:\*\*** The "Seen" indicator appears next to User B's name after they read the message.

**\*\*5. Verify that users are notified of new messages\*\***

**\*\*Test Case ID:\*\* SM-Messaging-5**

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

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

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

- Login as User A
- Close the application/browser
- Send a message to User A from another device
- Check notification tray or inbox

**\*\*Expected Result:\*\*** The user receives a notification and sees the 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 on Social Media Platform**

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

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

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

**\* \*\*Preconditions:\*\*** User is logged in, has created a profile.

**\* \*\*Test Data:\*\*** Text content, followers/public audience selection.

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

1. Click on "Create Post" button.
2. Enter text content.
3. Select followers or "Public" audience.
4. Click "Share" button.

**\* \*\*Expected Result:\*\*** Post is published and visible to the selected audience.

**\*\*2. Verify that users can share photos with posts\*\***

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

**\* \*\*Test Case Description:\*\*** This test case verifies that users can share photos along with their posts.

**\* \*\*Preconditions:\*\*** User is logged in, has created a profile, has uploaded photos to the platform.

**\* \*\*Test Data:\*\*** Selected photos from user library.

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

1. Click on "Create Post" button.
2. Click "Add Photo" button.
3. Select multiple photos from user library.
4. Enter caption and select audience.
5. Click "Share" button.

**\* \*\*Expected Result:\*\*** Shared photos are displayed alongside the text post in the newsfeed.

**\*\*3. Verify that users can share videos with posts\*\***

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

**\* \*\*Test Case Description:\*\*** This test case verifies that users can share videos along with their posts.

**\* \*\*Preconditions:\*\*** User is logged in, has created a profile, has uploaded videos to the platform.

**\* \*\*Test Data:\*\*** Selected videos from user library.

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

1. Click on "Create Post" button.
2. Click "Add Video" button.
3. Select multiple videos from user library.

4. Enter caption and select audience.

5. Click "Share" button.

\* \*\*Expected Result:\*\* Shared videos are displayed alongside the text post in the newsfeed.

\*\*4. Verify that content can be shared with specific followers\*\*

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

\* \*\*Test Case Description:\*\* This test case verifies that users can share content specifically with selected followers.

\* \*\*Preconditions:\*\* User has created a list of followers.

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

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

1. Click on "Create Post" button.

2. Enter text content.

3. Select followers from the "Share With" dropdown menu.

4. Click "Share" button.

\* \*\*Expected Result:\*\* Shared content is visible only to the selected followers.

\*\*5. Verify that users receive feedback through likes, comments, and shares\*\*

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

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

\* \*\*Preconditions:\*\* User has shared a post.

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

1. View the shared post in the newsfeed.

2. Like, comment, or share the post.

\* \*\*Expected Result:\*\* The post owner receives notifications and sees the number of likes, comments, and shares on their shared content.

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## **Data - 5**

### **Project name -**

Social Media Platform

### **Project description -**

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

### **Feature name -**

Privacy Settings

### **Feature description -**

Privacy settings allow users to control who can view their profile, posts, and other activity on the platform.

Users can choose between public, private, or restricted privacy settings, determining who can see their content, send them friend requests, or interact with them.

### **Userstory title -**

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

### **Acceptance criteria -**

['Users can set their profile to public, private, or restricted.', 'Privacy settings can be changed at any time.',

'Users can control visibility of individual posts.', 'The system should respect the privacy settings immediately.',

'Users should be notified of any changes in privacy settings.']

## Generated Test Cases:

### ## Test Cases for Social Media Platform Privacy Settings

**\*\*1. Verify that users can set their profile to public\*\***

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

**\*\*Test Case Description:\*\*** This tests the functionality of setting the profile privacy to "Public," ensuring that others can view the profile and interact with the user's content.

**\*\*Preconditions:\*\*** User account exists, internet connection is available.

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

- Go to profile settings
- Select "Privacy Settings"
- Choose "Public" privacy option
- Verify that profile information is visible to other users

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

**\*\*2. Verify that users can set their profile to private\*\***

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

**\*\*Test Case Description:\*\*** This tests the functionality of setting the profile privacy to "Private," ensuring only the user and authorized connections can view the profile.

**\*\*Preconditions:\*\*** User account exists, internet connection is available.

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

- Go to profile settings
- Select "Privacy Settings"



- Choose "Private" privacy option
- Verify that profile information is visible only to the user and approved connections

**\*\*Expected Result:\*\*** Profile becomes private to non-connections.

**\*\*3. Verify that users can control the visibility of individual posts\*\***

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

**\*\*Test Case Description:\*\*** This tests the functionality of controlling the visibility of individual posts to "Public," "Friends," or "Private."

**\*\*Preconditions:\*\*** User has created posts, internet connection is available.

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

- Go to profile settings
- Select "Privacy Settings"
- Choose desired visibility option for individual posts
- Verify that the specified visibility level is applied to the selected posts

**\*\*Expected Result:\*\*** Post visibility is adjusted according to user selection.

**\*\*4. Verify that the system respects privacy settings immediately\*\***

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

**\*\*Test Case Description:\*\*** This tests the immediate update of privacy settings to prevent unauthorized access to user information.

**\*\*Preconditions:\*\*** User changes privacy settings, internet connection is available.

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

- Choose a different privacy setting

- Monitor the accessibility of the user's profile and content

**\*\*Expected Result:\*\*** Privacy settings are applied instantly and correctly.

**\*\*5. Verify that users are notified of any changes in privacy settings\*\***

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

**\*\*Test Case Description:\*\*** This tests the notification system regarding changes made to privacy settings.

**\*\*Preconditions:\*\*** User account exists, internet connection is available.

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

- Change privacy settings

- Observe notification logs

**\*\*Expected Result:\*\*** User receives notification upon any change made to privacy settings.

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## **Data - 6**

### **Project name -**

Social Media Platform

### **Project description -**

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

### **Feature name -**

Notifications

### **Feature description -**

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

#### **Userstory title -**

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

#### **Acceptance criteria -**

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

#### **Generated Test Cases:**

## Test Cases for Social Media Platform Notifications Feature:

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

**\*\*Test Case ID:\*\*** SM-Notifications-Like

**\*\*Test Case Description:\*\*** This test case verifies that users receive notifications when others like their posts, comments, or direct messages.

**\*\*Preconditions:\*\*** User is logged in, has created a post, other users are logged in.

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

- User creates a post.
- Other user likes the post.
- User receives a notification mentioning the like action.

**\*\*Expected Result:\*\*** The system delivers a notification to the user about the like.

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

**\*\*Test Case ID:\*\* SM-Notifications-Comment**

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

**\*\*Preconditions:\*\*** User is logged in, has created a post, other users are logged in.

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

- User creates a post.
- Other user comments on the post.
- User receives a notification mentioning the comment action.

**\*\*Expected Result:\*\*** The system delivers a notification to the user about the comment.

**\*\*3. Verify that users receive notifications for mentions\*\***

**\*\*Test Case ID:\*\* SM-Notifications-Mention**

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

**\*\*Preconditions:\*\*** User is logged in, other users are logged in.

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

- User creates a post containing a mention of another user.
- User receives a notification mentioning the mention.

**\*\*Expected Result:\*\*** The system delivers a notification to the user about the mention.

**\*\*4. Verify that users can customize notification preferences\*\***

**\*\*Test Case ID:\*\* SM-Notifications-Preference**

**\*\*Test Case Description:\*\*** This test case verifies that users can customize notification settings for different activities.

**\*\*Preconditions:\*\*** User is logged in.

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

- User goes to notification settings.
- User selects desired notification options.
- User saves changes.

**\*\*Expected Result:\*\*** The system allows users to personalize notification preferences for likes, comments, and other activities.

**\*\*5. Verify that notifications are displayed in real-time\*\***

**\*\*Test Case ID:\*\*** SM-Notifications-Realtime

**\*\*Test Case Description:\*\*** This test case verifies that notifications are delivered immediately as they occur.

**\*\*Preconditions:\*\*** User is logged in, other users are logged in.

- User creates a post.
- Other user comments on the post simultaneously.

**\*\*Expected Result:\*\*** The system displays both notifications in real-time without delays.

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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**

**\*\*1. Verify that users can search for content using keywords and hashtags\*\***

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

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

**\*\*Preconditions:\*\*** User is logged in, search functionality is enabled.

**\*\*Test Data:\*\*** "Social media platform", "#SocialMedia"

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

- Enter keywords or hashtags into the search bar.
- Verify that results are displayed.
- Check that the results include a mix of content, profiles, and topics.

**\*\*Expected Result:\*\*** The system returns accurate and relevant results based on the search criteria.

**\*\*2. Verify that search results include profiles\*\***

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

**\*\*Test Case Description:\*\*** This test case ensures that the search results include user profiles.

**\*\*Preconditions:\*\*** User is logged in, search functionality is enabled.

**\*\*Test Data:\*\*** User name

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

- Search for a user by name.
- Verify that the results list includes the user's profile.

**\*\*Expected Result:\*\*** The system displays the relevant user profile in the search results.

**\*\*3. Verify that search results are displayed in order of relevance\*\***

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

**\*\*Test Case Description:\*\*** This test case checks that search results are ranked in order of relevance to the search terms.

**\*\*Preconditions:\*\*** User is logged in, search functionality is enabled.

**\*\*Test Data:\*\*** Various keywords related to the platform

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

- Search for multiple keywords.

- Compare the ranking of results for different searches.

**\*\*Expected Result:\*\*** Results are sorted in descending order of relevance to the search criteria.

**\*\*4. Verify that users can filter search results by content type\*\***

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

**\*\*Test Case Description:\*\*** This test case ensures that users can filter search results by content type, such as posts, videos, or images.

**\*\*Preconditions:\*\*** User is logged in, search functionality is enabled.

**\*\*Test Data:\*\*** Keyword related to platform posts

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

- Perform a search using relevant keywords.

- Select the desired content type filter.

**\*\*Expected Result:\*\*** The system filters the results to display only the selected content type.

**\*\*5. Verify that the search functionality provides suggestions as the user types\*\***

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

**\*\*Test Case Description:\*\*** This test case checks that the search bar provides suggestions as the user types characters.

**\*\*Preconditions:\*\*** User is logged in, search functionality is enabled.

**\*\*Test Data:\*\*** Partial keyword or hashtag

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

- Start typing a keyword or hashtag.

- Verify that relevant suggestions are displayed below the search bar.



**\*\*Expected Result:\*\*** The system suggests relevant options as the user types, improving search accuracy.

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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 and Tagging Test Cases

**\*\*1. Verify that users can add hashtags to their posts\*\***

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

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

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

1. Create a new post.
2. Enter relevant hashtags into the designated field.
3. Verify that the hashtags are saved and displayed in the post.
4. Search for the hashtags to ensure they are searchable.

**\* \*\*Expected Result:\*\*** Hashtags are added to the post, displayed correctly, and are searchable.

**\*\*2. Verify that users can tag other profiles, brands, or locations\*\***

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

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

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

1. Create a new post.
2. Select individuals, brands, or locations from the suggested list.
3. Verify that the tags are added to the post and are associated with the correct entities.
4. Check that tagged users receive notification about the mention.

**\* \*\*Expected Result:\*\*** Tags are correctly associated with the post and the target receives notification.

**\*\*3. Verify that hashtags and tags are clickable and lead to related content\*\***

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

**\* \*\*Test Case Description:\*\*** This test case verifies that clicking on hashtags or tags takes users to relevant content.

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

1. Post content containing hashtags and tags.
2. Click on a hashtag or tag.
3. Verify that the user reaches the relevant content associated with the hashtag or tag.

**\* \*\*Expected Result:\*\*** Clicking on hashtags or tags navigates the user to the associated content.

**\*\*4. Verify that the system allows searching for content using hashtags\*\***

**\* \*\*Test Case ID:\*\* SM-Hash-4**

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

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

1. Search for a specific hashtag.
2. Verify that search results include posts containing the searched hashtag.
3. Repeat with different hashtags.

**\* \*\*Expected Result:\*\*** Search results include relevant content based on the entered hashtag.

**\*\*5. Verify that the system suggests popular hashtags as users type\*\***

**\* \*\*Test Case ID:\*\* SM-Hash-5**

\* \*\*Test Case Description:\*\* This test case verifies that the system suggests popular hashtags as users type in the hashtag field.

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

1. Access the post creation interface.
2. Start typing a hashtag.
3. Verify that the suggestion list includes relevant and popular hashtags.

\* \*\*Expected Result:\*\* The system suggests popular hashtags based on user 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 Social Media Platform's Emojis and Reactions Feature:

**\*\*Test Case 1:\*\*** Verify that users can react to posts with a variety of emojis.

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

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

**\*\*Preconditions:\*\*** User is logged in, a post exists on the newsfeed.

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

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

- Navigate to the newsfeed.
- Select a post.
- Click on the "React" button.
- Choose different emojis from the available list.

**\*\*Expected Result:\*\*** The chosen emoji is added as a reaction to the post.

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

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

**\*\*Test Case Description:\*\*** This test case verifies that users can include emojis in their comments and private messages.

**\*\*Preconditions:\*\*** User has created a comment or is composing a message.

**\*\*Test Data:\*\*** Sample emoji characters.

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

- Compose a comment or message.
- Insert relevant emojis from the keyboard.
- Verify that the emojis are displayed correctly.

**\*\*Expected Result:\*\*** The emojis are inserted into the comment or message and displayed visually.

**\*\*Test Case 3:\*\*** Verify that the system displays a count of reactions on posts.

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

**\*\*Test Case Description:\*\*** This test case ensures that the system automatically displays a count of reactions for each post.

**\*\*Preconditions:\*\*** A post with reactions exists on the newsfeed.

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

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

- Navigate to the newsfeed.
- Locate a post with reactions.
- Verify that a count of reactions is displayed alongside the post.

**\*\*Expected Result:\*\*** The count accurately reflects the number of reactions on the post.

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

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

**\*\*Test Case Description:\*\*** This test case confirms that the platform supports a diverse range of emojis,

covering various categories and emotions.

**\*\*Preconditions:\*\*** User is logged in.

**\*\*Test Data:\*\*** Sample list of diverse emojis.

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

- Open the emoji keyboard.
- Browse through different categories of emojis.
- Verify the presence of various emojis within each category.

**\*\*Expected Result:\*\*** The platform supports a comprehensive set of emojis representing different emotions and categories.

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

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

**\*\*Test Case Description:\*\*** This test case checks that users can modify their reactions after posting them on a post or message.

**\*\*Preconditions:\*\*** User has reacted to a post or message.

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

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

- Select a previously added reaction.
- Choose "Remove reaction" or change it to another emoji.
- Verify that the reaction is updated or removed.

**\*\*Expected Result:\*\*** The system allows users to modify their reactions as needed.

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## **Project name -**

Social Media Platform

## **Project description -**

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

## **Feature name -**

Live Streaming

## **Feature description -**

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

## **Userstory title -**

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

## **Acceptance criteria -**

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

## **Generated Test Cases:**

## Social Media Platform - Live Streaming Test Cases

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

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

**\*\*Test Case Description:\*\*** This test case ensures that users can successfully initiate a live stream.



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

- Log in as a user.
- Navigate to the Live Stream page.
- Click the "Start Live Stream" button.
- Provide a title and description for the stream.
- Verify the live stream starts.

**\*\*2. Verify that only followers can see private live streams\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies that live streams can be restricted to followers only.

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

- Create a live stream with "Private" visibility.
- Share the stream URL with a follower and a non-follower.
- Verify that only the follower can see the live stream.

**\*\*3. Verify that viewers can interact with the streamer through comments and reactions\*\***

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

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

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

- Join a live stream.
- Compose and submit a comment.
- Select and react to various elements within the live stream.
- Verify that the streamer receives notifications for comments and reactions.

**\*\*4. Verify that the stream displays viewer count and live comments\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies that the live stream interface displays the number of viewers and actively displays incoming comments.

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

- Join a live stream.
- Verify that the viewer count is displayed.
- Send a comment and confirm its appearance on the stream.

**\*\*5. Verify that users can save the live stream for later viewing\*\***

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

**\*\*Test Case Description:\*\*** This test case ensures that users can save the live stream for later viewing.

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

- Join a live stream.
- Locate the "Save Stream" button.
- Confirm the live stream is saved in the user's history.

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**Data - 11**

**Project name -**

Social Media Platform

**Project description -**

Develop a comprehensive social media platform where users can create profiles, connect with friends, share posts, photos, and videos, engage with content through likes, comments, and shares, and explore trending

topics and communities. The platform should include features like news feed, messaging, user profiles, privacy settings, notifications, and analytics.

### **Feature name -**

Stories

### **Feature description -**

Stories are temporary posts that disappear after a certain period, typically 24 hours. Users can share ephemeral content such as photos, videos, and text overlays in their stories, providing a more casual and spontaneous way to share moments and updates with their followers.

### **Userstory title -**

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

### **Acceptance criteria -**

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

### **Generated Test Cases:**

## Test Cases for Story: Share Stories

**\*\*Test Case 1:\*\*** Verify that users can create stories with photos

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

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

**\*\*Test Case Description:\*\*** This test case ensures that users can successfully upload and display photos within their stories.

**\*\*Test Data:\*\*** Photo file from user's device

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

- Log in to the platform

- Navigate to the story creation screen
- Select "Photo" from the media library
- Choose a photo from the device
- Verify that the photo is uploaded and displayed in the story

**\*\*Test Case 2:\*\*** Verify that stories disappear after 24 hours

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

**\*\*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 Preconditions:\*\*** A story with photos must be created

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

- Create a story with photos
- Monitor the story over 24 hours
- Verify that the story and its content disappear after 24 hours

**\*\*Test Case 3:\*\*** Verify that users can share stories publicly or with selected followers

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

**\*\*Test Case Title:\*\*** Verify that users can share stories publicly or with selected followers

**\*\*Test Case Description:\*\*** This test case ensures that users can control the visibility of their stories by sharing them publicly or with specific followers.

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

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

- Create a story with photos
- Choose the "Share with followers" option

- Select or deselect followers from the list
- Verify that the story is shared only with the selected followers

**\*\*Test Case 4:\*\*** Verify that users can add stickers and filters to their stories

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

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

**\*\*Test Case Description:\*\*** This test case ensures that users can enhance their stories with various stickers and filters.

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

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

- Create a story with photos
- Select the "Stickers" or "Filters" option
- Choose a desired sticker or filter from the available options
- Verify that the sticker or filter is added to the story

**\*\*Test Case 5:\*\*** Verify that users can view who viewed their stories

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

**\*\*Test Case Title:\*\*** Verify that users can view who viewed their stories

**\*\*Test Case Description:\*\*** This test case verifies that users can track who has viewed their stories.

**\*\*Test Data:\*\*** User accounts of viewers

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

- Create a story with photos
- Share story with selected followers
- Access "Story Insights" section
- Verify that the list of viewers is displayed with their profiles

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## **Data - 12**

### **Project name -**

Social Media Platform

### **Project description -**

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

### **Feature name -**

Analytics and Insights

### **Feature description -**

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

### **Userstory title -**

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

### **Acceptance criteria -**

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

### **Generated Test Cases:**

## Test Cases for Social Media Platform Analytics

**\*\*1. Verify that users can access follower demographic data\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies that users can access comprehensive data on their follower demographics, including age, gender, location, and interests.

**\*\*Preconditions:\*\*** User is logged in, has created a profile.

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

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

- Navigate to the Analytics section.
- Select "Follower Demographics."
- Review the breakdown of follower demographics.

**\*\*Expected Result:\*\*** Detailed follower demographic data is displayed.

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

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

**\*\*Test Case Description:\*\*** This test case verifies the availability of post reach and engagement metrics, allowing users to track their content performance.

**\*\*Preconditions:\*\*** User has published content.

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

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

- Select a published post.
- Navigate to the Analytics section.
- Review the post reach and engagement metrics.

**\*\*Expected Result:\*\*** Post reach and engagement metrics are displayed alongside relevant metrics like

impressions, clicks, and engagement rate.

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

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

**\*\*Test Case Description:\*\*** This test case verifies the capability to track audience growth trends over time.

**\*\*Preconditions:\*\*** User has historical data associated with their account.

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

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

- Navigate to the Analytics section.
- Select "Audience Growth."
- Review the historical data of followers.

**\*\*Expected Result:\*\*** Audience growth trends are displayed in a clear and comprehensive manner.

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

**\*\*Test Case ID:\*\* SM-012**

**\*\*Test Case Description:\*\*** This test case verifies that analytical data is presented in a clear and user-friendly format.

**\*\*Preconditions:\*\*** User has accessed the Analytics section.

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

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

- Review the overall layout and design of the Analytics page.
- Check the clarity of data representation.

**\*\*Expected Result:\*\*** Analytics are presented in a visually appealing and user-friendly format.



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

**\*\*Test Case ID:\*\* SM-345**

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

**\*\*Preconditions:\*\*** User has accessed the Analytics section.

**\*\*Test Data:\*\*** Specific time range and content type

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

- Select "Filter Data" option.
- Choose a desired time range and content type.
- Review the filtered analytics data.

**\*\*Expected Result:\*\*** Data is filtered based the selected 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 users can create events\*\***

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

**\* \*\*Test Case Description:\*\* Tests the functionality of creating events with essential information (date, time, location, description)**

**\* \*\*Preconditions:\*\* User is logged in, Event creation page is accessible**

**\* \*\*Test Data:\*\* Event title, date, time, location, description**

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

1. Navigate to the Event creation page
2. Enter event details
3. Click "Create Event" button

**\* \*\*Expected Result:\*\* Event is created successfully and displayed on the events list**

**\*\*2. Verify that users can join existing events\*\***

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

**\* \*\*Test Case Description:\*\* Tests the process of joining existing events and verifying attendance list**

**\* \*\*Preconditions:\*\* User is logged in, Event is available for joining**

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

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

1. Navigate to the Events page
2. Find and select an upcoming event
3. Click "Join Event" button

**\* \*\*Expected Result:\*\* User is successfully added to the event's attendee list**

**\*\*3. Verify that group discussions can be organized by topic\*\***

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

**\* \*\*Test Case Description:\*\* Tests the ability to create group discussions categorized by topic**

**\* \*\*Preconditions:\*\* User is logged in, Group creation page is accessible**

**\* \*\*Test Data:\*\* Group name, topic selection**

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

1. Navigate to the Group creation page
2. Enter group name
3. Choose a topic from the list
4. Click "Create Group" button

**\* \*\*Expected Result:\*\* The group is created with the specified topic and accessible to group members**

**\*\*4. Verify that event details are displayed correctly\*\***

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

**\* \*\*Test Case Description:\*\* Tests the display of event details, including date, time, location, and description**

**\* \*\*Preconditions:\*\* Event exists in the system**

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

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

1. Navigate to the Event details page
2. Verify the display of event information

**\* \*\*Expected Result:\*\* Event details are displayed accurately as per the stored information**

**\*\*5. Verify that users can RSVP to events and see attendees\*\***

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

**\* \*\*Test Case Description:\*\* Tests RSVP functionality and attendee list visibility**

**\* \*\*Preconditions:\*\* User is logged in, Event exists with RSVP option**

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

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

1. Navigate to the Event page
2. Click "RSVP" button
3. Verify that the user's name appears in the RSVP list

**\* \*\*Expected Result:\*\* The user's RSVP is recorded and their name is displayed on the event's RSVP list**

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**Project name -**

Social Media Platform

**Project description -**

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

**Feature name -**

Monetization Options

**Feature description -**

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

**Userstory title -**

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

**Acceptance criteria -**

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

**Generated Test Cases:**

## Test Cases for Monetization Options

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

- **\*\*Description:\*\*** Test that users can navigate to the monetization section, review available options, and initiate the application process.

- **Preconditions:** User is logged in, has created a profile.
- **Test Steps:** Access monetization section, review available options (advertising, sponsored content, etc.), initiate application process for desired option.
- **Expected Result:** Application is submitted successfully and user receives confirmation message.

**2. Verify that monetization includes advertising revenue.**

- **Description:** Test that the platform correctly calculates and displays potential advertising revenue for creators.
- **Preconditions:** User has applied for advertising monetization.
- **Test Steps:** Review monetization dashboard, confirm revenue calculation for displayed ads.
- **Expected Result:** Revenue figures are accurate and reflect current ad impressions and clicks.

**3. Verify that users can receive payments through the platform.**

- **Description:** Test that creators can receive payments for their monetization efforts through the platform's payment system.
- **Preconditions:** User has received payments from monetization.
- **Test Steps:** Review payment history, request payment withdrawal, confirm receipt of funds.
- **Expected Result:** Payments are processed and transferred successfully.

**4. Verify that detailed earnings reports are available.**

- **Description:** Test that creators can access detailed reports on their earnings and transactions.
- **Preconditions:** User has received payments from monetization.
- **Test Steps:** Access earnings report section, filter by date range and monetization option.
- **Expected Result:** Detailed report with earnings breakdown and transaction history is available.

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

- **\*\*Description:\*\*** Test that the platform clearly communicates eligibility requirements for different monetization options.
- **\*\*Preconditions:\*\*** User is accessing the monetization overview section.
- **\*\*Test Steps:\*\*** Review eligibility criteria for each monetization option.
- **\*\*Expected Result:\*\*** Clear and concise explanation of requirements is provided for each option.

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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 content

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

**\*\*Test Case Description:\*\*** This test case verifies that the Explore tab successfully fetches and displays a list of trending posts, accounts, and topics.

**\*\*Preconditions:\*\*** User is logged in, Explore tab is selected

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

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

1. Open the Explore tab
2. Verify that the tab displays a list of trending content
3. Check if the displayed content includes posts, accounts, and topics

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

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

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

**\*\*Test Case Description:\*\*** This test case verifies that the Explore tab generates personalized content recommendations based on the user's interests, engagement history, and social connections.

**\*\*Preconditions:\*\*** User has existing preferences and connections



**\*\*Test Data:\*\*** User profile data and engagement history

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

1. Provide feedback on content explored in previous sessions
2. Explore the Discover tab
3. Monitor the displayed content recommendations

**\*\*Expected Result:\*\*** The Explore tab provides personalized content recommendations based on individual user preferences.

**\*\*Test Case 3:\*\*** Verify that users can filter content by category or topic

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

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

**\*\*Preconditions:\*\*** Explore tab is open

**\*\*Test Data:\*\*** Specific category or topic

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

1. Navigate through different categories or topics
2. Verify that the displayed content aligns with the chosen filter

**\*\*Expected Result:\*\*** Users can filter the Explore tab content by their desired category or topic.

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

**\*\*Test Case ID:\*\*** SM-Explore-4

**\*\*Test Case Description:\*\*** This test case verifies that the Explore tab automatically updates with new and relevant content on a regular basis.

**\*\*Preconditions:\*\*** Explore tab is open

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

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

1. Monitor the Explore tab over time
2. Observe the addition of new content over time

**\*\*Expected Result:\*\*** The Explore tab consistently refreshes with new and relevant content.

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

**\*\*Test Case ID:\*\*** SM-Explore-5

**\*\*Test Case Description:\*\*** This test case verifies that users can save or follow content items from the Explore tab for future reference or engagement.

**\*\*Preconditions:\*\*** User has identified a content item

**\*\*Test Data:\*\*** Specific content item

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

1. Select the "Save" or "Follow" option on the desired content
2. Verify that the item is saved or followed

**\*\*Expected Result:\*\*** Users can save or follow content items from the Explore tab for future reference or engagement.

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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:**

## Social Media Platform - Accessibility Test Cases

**\*\*Test Case 1:\*\*** Verify that alt text is provided for images

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

**\*\*Test Case Description:\*\*** This test case checks if alt text is automatically generated and displayed for uploaded images across different content types.

**\*\*Preconditions:\*\*** User has uploaded an image file.

**\*\*Test Data:\*\*** Various image file formats and descriptions.

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

1. Upload an image file.
2. Verify that an appropriate alt text is displayed beside the image.
3. Check if the alt text matches the actual image content.

**\*\*Expected Result:\*\*** The system displays meaningful alt text for the uploaded image.

**\*\*Test Case 2:\*\*** Verify screen reader compatibility

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

**\*\*Test Case Description:\*\*** This test case verifies that screen readers can effectively navigate and interpret content on the platform.

**\*\*Preconditions:\*\*** Screen reader is enabled.

**\*\*Test Data:\*\*** Standard test cases for commonly used screen readers.

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

1. Open the platform using a screen reader.
2. Navigate through different sections of the platform.
3. Verify that all essential content is properly announced and understandable.

**\*\*Expected Result:\*\*** The platform is compatible with the connected screen reader, ensuring a smooth user experience for visually impaired users.

**\*\*Test Case 3:\*\*** Verify accessibility of navigation using keyboard shortcuts

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

**\*\*Test Case Description:\*\*** This test case checks if keyboard navigation is accessible and allows users to easily access main features without a mouse or touchpad.

**\*\*Preconditions:\*\*** Keyboard accessible mode is enabled.

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

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

1. Open the platform using a keyboard.
2. Locate and navigate between different sections using keyboard commands.
3. Verify that essential actions can be performed without a mouse.

**\*\*Expected Result:\*\*** Keyboard navigation is accessible and allows efficient platform exploration.

**\*\*Test Case 4:\*\*** Verify color contrast and font size options

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

**\*\*Test Case Description:\*\*** This test case verifies the presence and effectiveness of color contrast adjustments and font size controls for accessibility.

**\*\*Preconditions:\*\*** User preferences are accessible.

**\*\*Test Data:\*\*** Different color combinations and font sizes.

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

1. Access the accessibility settings.
2. Adjust color contrast and font size options.
3. Verify that the changes are reflected throughout the platform.

**\*\*Expected Result:\*\*** The platform offers adjustable color contrast and font sizes, enhancing accessibility for users with low vision.

**\*\*Test Case 5:\*\*** Verify accessibility documentation is available

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

**\*\*Test Case Description:\*\*** This test case checks if comprehensive and easily accessible documentation regarding accessibility features is provided.

**\*\*Preconditions:\*\*** N/A

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

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

1. Locate and review the platform's accessibility documentation.
2. Verify that the documentation clearly explains the available accessibility features.
3. Check if the documentation provides instructions on how to use the accessibility features effectively.

**\*\*Expected Result:\*\*** Accessible documentation is readily available and easily accessible to users.

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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 Social Media Platform Safety and Moderation Tools

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

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

**\*\*Test Case Description:\*\*** This test case verifies that the platform's content moderation algorithms effectively filter out inappropriate content uploaded by users.

**\*\*Preconditions:\*\*** User has uploaded content to the platform.

**\*\*Test Data:\*\*** Various categories of inappropriate content.

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

1. Upload content containing inappropriate content.
2. Verify that the content is filtered and not visible to other users.
3. Repeat with different categories of inappropriate content.

**\*\*Expected Result:\*\*** The uploaded content is filtered and not displayed on the platform.

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

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

**\*\*Test Case Description:\*\*** This test case confirms that users can report harmful or inappropriate content on the platform.

**\*\*Preconditions:\*\*** User encounters harmful content on the platform.

**\*\*Test Data:\*\*** Specific examples of harmful or inappropriate content.

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

1. Locate and report harmful content on the platform.
2. Verify that a report is submitted with relevant details.
3. Review platform notifications and confirmed receipt of the report.

**\*\*Expected Result:\*\*** The platform records the report and notifies the relevant moderation team.

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

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

**\*\*Test Case Description:\*\*** This test case ensures that users can block other users from interacting with them.

**\*\*Preconditions:\*\*** Two user accounts exist on the platform.

**\*\*Test Data:\*\*** User IDs of the blocked user.

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

1. Identify a user and another user to block.
2. Block the user through platform settings.
3. Attempt interaction with the blocked user.

**\*\*Expected Result:\*\*** The blocked user is unable to interact with the original user.

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

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

**\*\*Test Case Description:\*\*** This test case verifies that the platform's comment filters effectively block offensive language in comments.

**\*\*Preconditions:\*\*** User creates a post with comments containing offensive language.

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

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

1. Create a post with comments containing offensive language.
2. Verify that the comments with offensive language are filtered out.
3. Repeat with different sentences containing offensive language.

**\*\*Expected Result:\*\*** Offensive comments are filtered and not displayed on the platform.

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

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

**\*\*Test Case Description:\*\*** This test case ensures that the platform consistently enforces its community guidelines across all users and interactions.

**\*\*Preconditions:\*\*** User activity violates community guidelines.



**\*\*Test Data:\*\*** Instances of guideline violations.

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

1. Engage in behavior that violates community guidelines.
2. Monitor platform notifications and moderation actions.
3. Review user feedback and reported violations.

**\*\*Expected Result:\*\*** The platform consistently enforces guidelines with appropriate mod actions and user notifications.

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## **Data - 18**

### **Project name -**

Social Media Platform

### **Project description -**

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

### **Feature name -**

Multi-Language Support

### **Feature description -**

Multi-language support allows the platform to cater to users from diverse linguistic backgrounds by offering interface localization and content translation features. Users can select their preferred language for the interface, and posts or messages can be translated into different languages, enhancing accessibility and user experience across global audiences.

### **Userstory title -**

As a user, I want multi-language support so that I can use the platform in my preferred language.

## Acceptance criteria -

['Users can select their preferred interface language.', 'The platform offers content translation features.', 'Posts and messages can be translated into different languages.', 'Language preferences are saved and applied consistently.', 'The platform supports a wide range of languages.']

## Generated Test Cases:

### ## Test Cases for Multi-Language Support Feature

**\*\*Test Case 1:\*\*** Verify that users can select their preferred interface language

**\*\*Test Case ID:\*\*** ABC123

**\*\*Test Case Description:\*\*** This test case verifies that users can choose their desired language from the available options and the interface translates accordingly.

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

- Log in to the platform
- Navigate to profile settings
- Select a different language from the language selection menu
- Verify that the interface elements and labels are translated to the chosen language

**\*\*Test Case 2:\*\*** Verify that content translation features work for posts and messages

**\*\*Test Case ID:\*\*** ABC456

**\*\*Test Case Description:\*\*** This test case ensures that user-generated content and messages can be translated into different languages after selection.

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

- Create a post in English
- Select a different language from the translation options
- Verify that the post content is translated accurately
- Send a private message in English

- Select a different language
- Verify that the message content is translated correctly

**\*\*Test Case 3:\*\*** Verify that language preferences are saved and applied consistently

**\*\*Test Case ID:\*\*** ABC789

**\*\*Test Case Description:\*\*** This test case confirms that user-selected language preferences are saved and applied consistently throughout the platform.

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

- Choose a language other than English
- Verify that the interface and content are displayed in the chosen language
- Logout from the account
- Log back in
- Verify that the language preference remains intact

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

**\*\*Test Case ID:\*\*** XYZ123

**\*\*Test Case Description:\*\*** This test case checks the availability of various languages supported by the platform.

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

- Access the list of supported languages
- Verify the presence of a diverse range of languages from different regions and cultures
- Test commonly spoken languages in various regions

**\*\*Test Case 5:\*\*** Verify that the platform handles language selection gracefully for users with disabilities

**\*\*Test Case ID:\*\*** XYZ456

**\*\*Test Case Description:\*\*** This test case ensures that the platform provides accessible language selection options for users with visual impairments.

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

- Access the language selection menu
- Verify that the options are clearly labeled and distinguishable
- Check that alternative text is provided for language icons or flags

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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 - Test Cases

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

**\*\*Test Case ID:\*\* SmP123**

**\*\*Test Case Description:\*\*** This test case ensures that users can successfully connect their Social Media Platform account with various other social networks and external services.

**\*\*Preconditions:\*\*** User is logged in, other social media accounts are accessible.

**\*\*Test Data:\*\*** Multiple popular social media platforms (Facebook, Twitter, Instagram, etc.)

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

- Navigate to the "Cross-Platform Integration" settings page.
- Select a desired platform from the list.
- Enter login credentials for the chosen platform.
- Verify successful connection and retrieve connected account information.

**\*\*Expected Result:\*\*** The platform seamlessly connects to the selected platform and displays relevant user data.

**\*\*2. Verify that users can cross-post content to other platforms\*\***

**\*\*Test Case ID:\*\* SmP456**

**\*\*Test Case Description:\*\*** This test case verifies that users can effortlessly share their Social Media Platform content across various platforms.

**\*\*Preconditions:\*\*** User has connected multiple platforms.

**\*\*Test Data:\*\*** Sample post content

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

- Create a new post.
- Select the "Cross-Post" option.
- Choose the desired platforms for sharing.
- Review the preview and submit the post.

**\*\*Expected Result:\*\*** The post is simultaneously published to the chosen platforms.

**\*\*3. Verify single sign-on (SSO) functionality\*\***

**\*\*Test Case ID:\*\*** SmP789

**\*\*Test Case Description:\*\*** This test case ensures that users can seamlessly log in to the Social Media Platform using their existing credentials from other connected platforms.

**\*\*Preconditions:\*\*** User has linked accounts with multiple platforms.

**\*\*Test Step:\*\***

- Visit the Social Media Platform website or app.
- Click on the "Sign In" button.
- Select the "Single Sign-On" option.

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

**\*\*4. Verify integration with external media sources\*\***

**\*\*Test Case ID:\*\*** SmP012

**\*\*Test Case Description:\*\*** This test case validates that the platform integrates with relevant external media sources for enhanced user engagement.

**\*\*Preconditions:\*\*** User has connected the platform with external media accounts.

**\*\*Test Data:\*\*** External media feed URL or ID

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

- Access the "External Media" section.
- Select an external media source.
- Review the available content.

**\*\*Expected Result:\*\*** The platform displays curated content from the chosen external media source.

**\*\*5. Verify seamless content sharing across platforms\*\***

**\*\*Test Case ID:\*\*** SmP345

**\*\*Test Case Description:\*\*** This test case ensures that users can effortlessly share Social Media Platform content across all connected platforms.

**\*\*Preconditions:\*\*** User has shared content previously.

**\*\*Test Step:\*\***

- Navigate to past posts.
- Select a post.
- Click on the "Share Across Platforms" button.

**\*\*Expected Result:\*\*** The chosen post is automatically shared on all connected platforms simultaneously.

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**Data - 20**

**Project name -**

Social Media Platform

**Project description -**

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

**Feature name -**

Gamification and Rewards

**Feature description -**

Gamification and rewards enhance user engagement by incorporating game-like elements such as points, badges, leaderboards, and challenges. Users can earn rewards for their activities, achievements, and contributions on the platform, fostering a sense of accomplishment and encouraging continued interaction and participation.

**Userstory title -**

As a user, I want gamification and rewards so that I can earn recognition and incentives for my activities.

**Acceptance criteria -**

['Users can earn points and badges for their activities.', 'Leaderboards display top users based on points or achievements.', 'Challenges are available for users to complete and earn rewards.', 'Rewards can include virtual goods, discounts, or exclusive content.', 'Users can view their progress and achievements in a dedicated section.']

**Generated Test Cases:**

## Test Cases for Gamification and Rewards Feature:

**\*\*1. Verify that points can be awarded for various activities\*\***

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

- **\*\*Test Case Description:\*\*** This test case verifies that points are correctly awarded to users for various activities such as posting content, engaging in discussions, completing challenges, and participating in group



challenges.

- **Preconditions:** User has created a profile, logged in to the platform.
- **Test Data:** N/A
- **Test Steps:**
  1. User creates a post.
  2. User participates in a discussion.
  3. User completes a challenge.
  4. User joins a group challenge.
- **Expected Result:** Points are awarded appropriately for each activity.

**2. Verify that leaderboards are sorted based on points and achievements**

- **Test Case ID:** SM-2
- **Test Case Description:** This test case verifies that the leaderboard correctly displays users based on their accumulated points and achievements.
- **Preconditions:** User has earned points and/or achieved badges.
- **Test Data:** N/A
- **Test Steps:**
  1. Navigate to the leaderboard page.
  2. Verify that users are ranked in descending order of points and achievements.
- **Expected Result:** Users are listed in the correct order based on their points and achievements.

**3. Verify that challenges are available and award rewards**

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

- **\*\*Test Case Description:\*\*** This test case verifies that challenges are displayed on the platform and users can earn rewards for completing them.
- **\*\*Preconditions:\*\*** User has completed certain prerequisites for accessing challenges.
- **\*\*Test Data:\*\*** List of available challenges and their reward details.
- **\*\*Test Steps:\*\***
  1. Access the list of available challenges.
  2. Select and attempt to complete a challenge.
  3. Verify that the challenge progress is tracked.
- **\*\*Expected Result:\*\*** User receives the reward upon successful completion of the challenge.

**\*\*4. Verify that users can redeem earned rewards\*\***

- **\*\*Test Case ID:\*\*** SM-4
- **\*\*Test Case Description:\*\*** This test case verifies that users can redeem their earned rewards for virtual goods, discounts, or exclusive content.
- **\*\*Preconditions:\*\*** User has earned enough points to redeem a reward.
- **\*\*Test Data:\*\*** List of available rewards and their redemption requirements.
- **\*\*Test Steps:\*\***
  1. Access the rewards page.
  2. Select a reward to redeem.
  3. Confirm the redemption process.
- **\*\*Expected Result:\*\*** The reward is credited to the user's account and the user receives the associated benefits.

**\*\*5. Verify that the progress and achievements section provides accurate information\*\***

- **\*\*Test Case ID:\*\*** SM-5
  - **\*\*Test Case Description:\*\*** This test case verifies that the user's progress and achievements are accurately displayed in the designated section.
  - **\*\*Preconditions:\*\*** User has performed various activities on the platform.
  - **\*\*Test Data:\*\*** N/A
  - **\*\*Test Steps:\*\***
    1. Navigate to the user profile.
    2. Check the progress and achievements section.
  - **\*\*Expected Result:\*\*** The section displays accurate information about the user's activity, points earned, achievements unlocked, and progress towards challenges.
- 

## **Data - 21**

### **Project name -**

Task Management Tool

### **Project description -**

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

### **Feature name -**

Task Creation

### **Feature description -**

Users can create tasks by providing detailed information such as the task title, description, due date, priority level, and assigning it to specific team members. This feature serves as the foundation for organizing and managing tasks within the tool.

## Userstory title -

As a user, I want to create tasks so that I can organize and manage my work effectively.

## Acceptance criteria -

['Users can enter a task title, description, due date, and priority level.', 'Tasks can be assigned to specific team members.', 'The system should save and display created tasks.', 'Users can edit task details after creation.', 'The system should validate required fields (e.g., task title).']

## Generated Test Cases:

## Test Cases for Task Creation Feature

**\*\*Test Case 1: Valid Task Creation\*\***

\* **\*\*Test Case ID:\*\*** TC01

\* **\*\*Test Case Title:\*\*** Verify that valid tasks can be created

\* **\*\*Test Case Description:\*\*** This test case ensures that the system allows users to create tasks with valid information, including title, description, due date, and priority level.

\* **\*\*Test Suite:\*\*** Task Creation

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

\* **\*\*Preconditions:\*\*** User is logged in, Project exists

\* **\*\*Test Data:\*\*** Title: "Create a new task", Description: "Testing purpose", Due Date: Today, Priority: High

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

1. Navigate to the "Create Task" page
2. Enter the required information
3. Click the "Create" button

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

## **\*\*Test Case 2: Missing Required Fields\*\***

**\* \*\*Test Case ID:\*\* TC02**

**\* \*\*Test Case Title:\*\* Verify that required fields are validated**

**\* \*\*Test Case Description:\*\* This test case verifies that the system validates required fields during task creation.**

**\* \*\*Test Suite:\*\* Task Creation**

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

**\* \*\*Preconditions:\*\* User is logged in, Project exists**

**\* \*\*Test Data:\*\* Title: "", Description: "Testing purpose"**

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

1. Navigate to the "Create Task" page
2. Leave required fields empty
3. Attempt to create the task

**\* \*\*Expected Result:\*\* The system displays validation messages for the missing required fields.**

## **\*\*Test Case 3: Assigning to Team Members\*\***

**\* \*\*Test Case ID:\*\* TC03**

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

**\* \*\*Test Case Description:\*\* This test case ensures that the system allows assigning created tasks to specific team members.**

**\* \*\*Test Suite:\*\* Task Creation**

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

**\* \*\*Preconditions:\*\* User is logged in, Project exists, Team members exist**

**\* \*\*Test Data:\*\* Team member username: "JohnDoe"**

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

1. Create a new task
2. Assign the task to JohnDoe
3. Verify that JohnDoe receives notification

\* \*\*Expected Result:\*\* The assigned team member receives notification and the task is marked assigned.

\*\*Test Case 4: Editing Task Details\*\*

\* \*\*Test Case ID:\*\* TC04

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

\* \*\*Test Case Description:\*\* This test case ensures that users can edit created tasks, including title, description and due date.

\* \*\*Test Suite:\*\* Task Creation

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

\* \*\*Preconditions:\*\* User has created a task

\* \*\*Test Data:\*\* Updated title: "Updated Task", Updated description: "Updated testing purpose"

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

1. Create a new task
2. Click on the edit icon for the created task
3. Update the title and description
4. Click the "Save Changes" button

\* \*\*Expected Result:\*\* The task details are updated in the task list.

\*\*Test Case 5: Validation of Non-Valid Data\*\*

\* \*\*Test Case ID:\*\* TC05

\* \*\*Test Case Title:\*\* Verify the system handles invalid data during task creation

\* \*\*Test Case Description:\*\* This test case ensures that the system gracefully handles invalid data inputs during task creation, such as special characters or non-numeric values.

\* \*\*Test Suite:\*\* Task Creation

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

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

\* \*\*Test Data:\*\* Title: "!"

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

1. Navigate to the "Create Task" page
2. Enter invalid data in the title field
3. Attempt to create the task

\* \*\*Expected Result:\*\* The system displays an error message specific to the invalid input.

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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:**

##### **## Task Management Tool - Test Cases**

**\*\*1. Verify that users can select team members to assign tasks\*\***

Test Case ID: TMT-1

Test Case Title: Verify that users can select team members to assign tasks

Test Case Description: This test case ensures that users can choose from a list of available team members to assign tasks to.

Test Suite: Task Assignment

Test Priority: High

Preconditions: User is logged in, Project with team members exists

Test Data: User list of team members

Test Steps:

- Navigate to the task creation page
- Select a project with assigned team members
- Choose a team member from the assigned list



- Verify that the selected team member receives a notification

Expected Result: The assigned team member receives a notification and the assigned task appears in their task list.

**\*\*2. Verify that assignees receive notifications about their tasks\*\***

Test Case ID: TMT-2

Test Case Title: Verify that assignees receive notifications about their tasks

Test Case Description: This test case verifies that assigned users receive timely notifications regarding their assigned tasks.

Test Suite: Task Assignment

Test Priority: High

Preconditions: User is assigned a task

Test Data: Assigned task

Test Steps:

- Assign a task to a user
- Monitor the assigned user's notifications

Expected Result: The assigned user receives a notification on their chosen notification platform about their assigned task.

**\*\*3. Verify that the system displays assigned tasks in the assignee's task list\*\***

Test Case ID: TMT-3

Test Case Title: Verify that the system displays assigned tasks in the assignee's task list

Test Case Description: This test case ensures that the system displays all assigned tasks in the assigned user's task list.

Test Suite: Task Assignment

Test Priority: Medium

Preconditions: User is assigned a task

Test Data: Assigned task

Test Steps:

- Navigate to the assigned user's task list
- Verify that the assigned task is displayed

Expected Result: The assigned task is clearly visible in the assigned user's task list.

**\*\*4. Verify that users can reassign tasks to different team members\*\***

Test Case ID: TMT-4

Test Case Title: Verify that users can reassign tasks to different team members

Test Case Description: This test case ensures that users can easily reassign tasks to other team members if necessary.

Test Suite: Task Assignment

Test Priority: Medium

Preconditions: User is assigned a task

Test Data: Team member list

Test Steps:

- Navigate to the assigned task
- Select a different team member from the assigned list
- Verify that the assigned team member changes

Expected Result: The assigned task is reassigned to the new team member.

**\*\*5. Verify that the task assignment history is tracked\*\***

Test Case ID: TMT-5

Test Case Title: Verify that the task assignment history is tracked

Test Case Description: This test case ensures that the system tracks the history of assigned tasks, including the assigned team member and the time of assignment.

Test Suite: Task Assignment

Test Priority: Medium

Preconditions: User is assigned multiple tasks

Test Data: Assigned tasks

Test Steps:

- Access the task assignment history
- Verify that assigned tasks and team members are listed

Expected Result: The task assignment history shows a complete list of assigned tasks and their assigned team members.

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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:

**\*\*1. Verify that users can set reminders based on deadlines\*\***

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

- **\*\*Test Case Description:\*\*** This test case verifies that users can set reminders for tasks based on specific deadlines.

- **\*\*Preconditions:\*\*** User is logged in, a task with a deadline is created.

- **\*\*Test Data:\*\*** Deadline value.

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

1. Create a task with a deadline.
2. Go to task details.
3. Set a reminder for the deadline.
4. Save changes.

- **\*\*Expected Result:\*\*** The reminder is saved and associated with the task.

**\*\*2. Verify that reminders can be customized by urgency level\*\***

- **Test Case ID:** TM-2
- **Test Case Description:** This test case verifies that users can customize reminder urgency levels.
- **Preconditions:** User has set a reminder for a task.
- **Test Data:** Different urgency levels.
- **Test Steps:**
  1. Open the reminder settings.
  2. Select a different urgency level.
  3. Save changes.
- **Expected Result:** The reminder's urgency level is updated to the chosen setting.

**3. Verify that the system sends notifications for upcoming deadlines**

- **Test Case ID:** TM-3
- **Test Case Description:** This test case verifies that the system sends notifications for upcoming deadlines.
- **Preconditions:** User has set reminders for tasks with upcoming deadlines.
- **Test Data:** Pending deadlines.
- **Test Steps:**
  1. Approach the deadline time for a reminder.
  2. Verify that a notification is received.
- **Expected Result:** The system sends a notification reminding the user of the upcoming deadline.

**4. Verify that users can choose the delivery method for reminders**

- **Test Case ID:** TM-4

- **\*\*Test Case Description:\*\*** This test case verifies that users can choose the delivery method for reminders.
- **\*\*Preconditions:\*\*** User has set a reminder for a task.
- **\*\*Test Data:\*\*** Email, in-app notification.
- **\*\*Test Steps:\*\***
  1. Go to reminder settings.
  2. Select the desired delivery method.
  3. Save changes.
- **\*\*Expected Result:\*\*** The reminder delivery method is updated according to the user's selection.

**\*\*5. Verify that reminder settings can be adjusted or disabled\*\***

- **\*\*Test Case ID:\*\*** TM-5
- **\*\*Test Case Description:\*\*** This test case verifies that users can adjust or disable reminder settings.
- **\*\*Preconditions:\*\*** User has set reminders for tasks.
- **\*\*Test Data:\*\*** N/A
- **\*\*Test Steps:\*\***
  1. Go to reminder settings.
  2. Adjust or disable reminders.
  3. Verify that the changes are saved.
- **\*\*Expected Result:\*\*** The reminder settings are updated as desired.

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**Data - 24**

**Project name -**

Task Management Tool

## **Project description -**

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

## **Feature name -**

Task Prioritization

## **Feature description -**

Users can prioritize tasks based on their urgency and importance, allowing them to focus on high-priority tasks and manage their workload effectively. Tasks can be categorized into different priority levels, such as high, medium, or low, based on their importance to the project or team.

## **Userstory title -**

As a user, I want to prioritize tasks so that I can manage my workload effectively.

## **Acceptance criteria -**

['Users can set priority levels for tasks (High, Medium, Low).', 'Tasks can be sorted based on priority levels.', 'Users can change the priority level of a task.', 'The system visually distinguishes tasks based on priority.', 'Tasks without a specified priority default to Medium.']

## **Generated Test Cases:**

## Test Cases for Task Prioritization Feature:

**\*\*1. Verify that users can set priority levels for tasks.\*\***

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

**\* \*\*Test Case Description:\*\*** This test case ensures that users can assign different priority levels (High, Medium, Low) to tasks.

**\* \*\*Preconditions:\*\*** User is logged in, a task is created.

**\* \*\*Test Data:\*\*** "Lorem ipsum dolor sit amet" task with varying priority levels.

\* \*\*Test Steps:\*\* 1. Create a task. 2. Select a priority level from the dropdown menu. 3. Verify that the task list reflects the assigned priority.

\* \*\*Expected Result:\*\* The system allows setting priority levels and the list updates visually to reflect the change.

\*\*2. Verify that tasks can be sorted based on priority levels.\*\*

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

\* \*\*Test Case Description:\*\* This test case verifies the sorting functionality of tasks based on assigned priorities.

\* \*\*Preconditions:\*\* User is logged in, tasks with different priorities are created.

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

\* \*\*Test Steps:\*\* 1. Sort tasks in ascending order of priority. 2. Sort tasks in descending order of priority. 3. Verify that tasks are sorted correctly.

\* \*\*Expected Result:\*\* The system displays tasks in the selected priority order.

\*\*3. Verify that users can change the priority level of a task.\*\*

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

\* \*\*Test Case Description:\*\* This test case ensures that users can update the priority of an existing task.

\* \*\*Preconditions:\*\* User is logged in, a task is created with a specific priority.

\* \*\*Test Data:\*\* Existing task with a set priority.

\* \*\*Test Steps:\*\* 1. Select a task. 2. Click on the "Edit" icon. 3. Choose a new priority level. 4. Verify the change in priority on the task list.

\* \*\*Expected Result:\*\* The system allows changing the priority of an existing task.



**\*\*4. Verify that the system visually distinguishes tasks based on priority.\*\***

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

**\* \*\*Test Case Description:\*\*** This test case verifies the visual representation of different priority levels.

**\* \*\*Preconditions:\*\*** User is logged in, tasks with different priorities are created.

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

**\* \*\*Test Steps:\*\*** 1. Create tasks with varying priority levels. 2. Review the list of tasks. 3. Verify that tasks are visually categorized based on their assigned priority.

**\* \*\*Expected Result:\*\*** Tasks are highlighted or color-coded according to their priority levels.

**\*\*5. Verify that tasks without a specified priority default to Medium.\*\***

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

**\* \*\*Test Case Description:\*\*** This test case ensures that unassigned tasks receive a default priority.

**\* \*\*Preconditions:\*\*** User is logged in.

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

**\* \*\*Test Steps:\*\*** 1. Create a task with no specified priority. 2. Verify that the task has been assigned a default priority of Medium.

**\* \*\*Expected Result:\*\*** The system assigns a default priority of Medium to tasks without a defined priority.

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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:**

## Task Management Tool: Test Cases for Subtasks

**\*\*1. Verify that users can create subtasks under main tasks\*\***

**\*\*Test Case ID:\*\* TM-Subtask-01**

**\*\*Test Case Description:\*\*** This test case verifies the functionality of creating subtasks under a main task and ensures the association between them.

**\*\*Preconditions:\*\*** User is logged in, main task is selected.

**\*\*Test Data:\*\*** Main task title and description.

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

- Create a new main task.

- Click on the "Create Subtask" button.
- Input a title and description for the subtask.
- Verify that the subtask is added to the main task and linked.

**\*\*2. Verify that subtasks can have their own due dates and assignees\*\***

**\*\*Test Case ID:\*\* TM-Subtask-02**

**\*\*Test Case Description:\*\*** This test case ensures that subtasks can be assigned individual due dates and assigned to specific users.

**\*\*Preconditions:\*\*** User is logged in, main task is selected.

**\*\*Test Data:\*\*** Subtask title, due date, and assignee.

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

- Create a subtask under a main task.
- Set a due date and assign the subtask to a user.
- Verify that the due date and assignee are saved for the subtask.

**\*\*3. Verify the tracking of subtask progress\*\***

**\*\*Test Case ID:\*\* TM-Subtask-03**

**\*\*Test Case Description:\*\*** This test case verifies the functionality of tracking individual and main task progress through completed subtasks.

**\*\*Preconditions:\*\*** User is logged in, main task with subtasks is selected.

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

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

- Create multiple subtasks under a main task.
- Complete some of the subtasks.
- Verify that the main task's progress reflects the completion of its subtasks.

**\*\*4. Verify that subtasks can be marked as complete independently of the main task\*\***

**\*\*Test Case ID:\*\* TM-Subtask-04**

**\*\*Test Case Description:\*\*** This test case ensures that subtasks can be marked as completed independently of the main task they belong to.

**\*\*Preconditions:\*\*** User is logged in, main task with subtasks is selected.

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

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

- Create multiple subtasks under a main task.
- Mark one or more subtasks as completed.
- Verify that the completion status of the subtasks is updated without affecting the main task's status.

**\*\*5. Verify that dependencies between subtasks can be set\*\***

**\*\*Test Case ID:\*\* TM-Subtask-05**

**\*\*Test Case Description:\*\*** This test case checks the functionality of setting dependencies between subtasks, ensuring task execution order.

**\*\*Preconditions:\*\*** User is logged in, main task with subtasks is selected.

**\*\*Test Data:\*\*** Subtasks and their dependencies.

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

- Create multiple subtasks under a main task.
- Set dependencies between two or more subtasks.
- Verify that the subtasks are executed in the defined dependency order.

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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 Dependencies

## **Feature description -**

Users can define dependencies between tasks, specifying the order in which tasks should be completed to ensure smooth workflow and project progression. Task dependencies help in identifying critical paths and managing interdependencies between tasks.

## **Userstory title -**

As a user, I want to set task dependencies so that tasks are completed in the correct sequence.

## **Acceptance criteria -**

['Users can set dependencies between tasks.', 'The system displays dependencies in the task details.', 'Tasks cannot be marked as complete if dependent tasks are not completed.', 'Users can update or remove dependencies as needed.', 'The system provides alerts or warnings if a dependent task is not completed.']

## **Generated Test Cases:**

## Test Cases for Task Dependencies

**\*\*Test Case 1:\*\*** Verify that users can set dependencies between tasks

**\*\*Test Case ID:\*\*** TM-Dependency-1

**\*\*Test Case Description:\*\*** This test case verifies that users can define dependencies between tasks in the system.

**\*\*Preconditions:\*\*** User is logged in, a task is created.

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

1. Create two tasks.
2. Select the first task and set a dependency on the second task.
3. Verify that the dependency is saved and displayed on the task details.

**\*\*Expected Result:\*\*** The system allows setting the dependency and displays it correctly.

**\*\*Test Case 2:\*\*** Verify that tasks cannot be marked as complete if dependent tasks are not completed.

**\*\*Test Case ID:\*\*** TM-Dependency-2

**\*\*Test Case Description:\*\*** This test case verifies that completing a task is disabled if its dependent tasks are not finished.

**\*\*Preconditions:\*\*** User is logged in, two tasks are created, with the second dependent on the first.

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

1. Mark the first task as complete.
2. Attempt to mark the second task as complete.
3. Verify that the completion is disabled.

**\*\*Expected Result:\*\*** The system disables completing the task until its dependencies are finished.

**\*\*Test Case 3:\*\*** Verify that users can update or remove dependencies as needed.

**\*\*Test Case ID:\*\*** TM-Dependency-3

**\*\*Test Case Description:\*\*** This test case verifies that users can update or remove dependencies between tasks in the system.

**\*\*Preconditions:\*\*** User is logged in, a task with a dependency is created.

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

1. Select the task with the dependency.
2. Update or remove the dependency.

3. Verify that the update or removal is reflected in the task details.

**\*\*Expected Result:\*\*** The system allows updating or removing dependencies easily.

**\*\*Test Case 4:\*\*** Verify that the system provides alerts or warnings if a dependent task is not completed on time.

**\*\*Test Case ID:\*\*** TM-Dependency-4

**\*\*Test Case Description:\*\*** This test case verifies that the system provides timely alerts when a dependent task is nearing its deadline.

**\*\*Preconditions:\*\*** User is logged in, two tasks are created, with the second dependent on the first.

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

1. Set deadlines for both tasks.
2. Allow the dependent task to approach its deadline.
3. Monitor the system for alerts or warnings.

**\*\*Expected Result:\*\*** The system sends alerts before the deadline of the dependent task.

**\*\*Test Case 5:\*\*** Verify that the system displays dependencies in the task details.

**\*\*Test Case ID:\*\*** TM-Dependency-5

**\*\*Test Case Description:\*\*** This test case verifies that the system displays a list of dependencies for each task in the details.

**\*\*Preconditions:\*\*** User is logged in, a task with dependencies is created.

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

1. Select the task with dependencies.
2. Verify that the list of dependencies is displayed.

**\*\*Expected Result:\*\*** The system displays a clear list of all defined dependencies for the task.

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**Data - 27**

**Project name -**

Task Management Tool

**Project description -**

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

**Feature name -**

Task Comments and Collaboration

**Feature description -**

Users can collaborate on tasks by leaving comments, attaching files, and engaging in discussions directly within the task interface. This feature facilitates communication and teamwork, allowing team members to provide updates, share feedback, and ask questions related to the task.

**Userstory title -**

As a user, I want to comment on tasks so that I can collaborate with my team.

**Acceptance criteria -**

['Users can add comments to tasks.', 'Comments can include text, attachments, and links.', 'Users can reply to and edit their comments.', 'The system notifies users of new comments.', 'Comments are displayed in chronological order.']

**Generated Test Cases:**

## Test Cases for Task Comments and Collaboration Feature:

\*\*1. Verify that users can add comments to tasks\*\*



\* Test Case ID: TM-1

\* Test Case Title: Verify that users can add comments to tasks

\* Test Case Description: This test case ensures users can attach comments containing text and attachments to tasks.

\* Test Suite: Task Comments

\* Test Priority: High

\* Preconditions: User is logged in, a task is created

\* Test Data: Sample task with description

\* Test Steps: 1. Open a task, 2. Click "Add Comment," 3. Input comment text, 4. Attach a file (optional), 5. Click "Post Comment"

\* Postconditions: Comment is added to the task list

\* Expected Result: Comment is saved successfully with text and attached files

\*\*2. Verify that comments can include text, attachments, and links\*\*

\* Test Case ID: TM-2

\* Test Case Title: Verify that comments can include text, attachments, and links

\* Test Case Description: This test case ensures users can add comments with rich text, files, and URLs.

\* Test Suite: Task Comments

\* Test Priority: High

\* Preconditions: User has added a comment to a task

\* Test Data: Text with special characters, file, URL

\* Test Steps: 1. Edit a comment, 2. Input text with special characters, 3. Attach a file, 4. Insert a URL

\* Postconditions: Comment content contains inserted text, file, and URL

\* Expected Result: Comment format includes all added elements

**\*\*3. Verify that users can reply to and edit their comments\*\***

\* Test Case ID: TM-3

\* Test Case Title: Verify that users can reply to and edit their comments

\* Test Case Description: This test case checks the functionality of replying to and editing comments.

\* Test Suite: Task Comments

\* Test Priority: Medium

\* Preconditions: User has added a comment to a task

\* Test Data: Existing comment text

\* Test Steps: 1. Reply to a comment, 2. Edit a comment, 3. Modify existing text/attachments

\* Postconditions: Comment reply and edit functionality works as expected

\* Expected Result: Comment replies and edits are saved and reflected in the task interface.

**\*\*4. Verify that the system notifies users of new comments\*\***

\* Test Case ID: TM-4

\* Test Case Title: Verify that the system notifies users of new comments

\* Test Case Description: This test case ensures users receive notifications when someone comments on their assigned tasks.

\* Test Suite: Task Comments

\* Test Priority: Medium

\* Preconditions: User is assigned a task

\* Test Data: Sample comment text

\* Test Steps: 1. Comment on a task assigned to the user, 2. Verify notification alert

\* Postconditions: User receives notification of the new comment

\* Expected Result: User receives a notification when new comments are added to their assigned tasks.

**\*\*5. Verify that comments are displayed in chronological order\*\***

\* Test Case ID: TM-5

\* Test Case Title: Verify that comments are displayed in chronological order

\* Test Case Description: This test case ensures comments are listed in the order they were added.

\* Test Suite: Task Comments

\* Test Priority: Medium

\* Preconditions: Existing comments are added to a task

\* Test Data: Timestamp of added comments

\* Test Steps: 1. View a task with existing comments, 2. Verify comments are listed in chronological order

\* Postconditions: Comment order is maintained

\* Expected Result: Comments are displayed in the order they were added to the task.

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**Data - 28**

**Project name -**

Task Management Tool

**Project description -**

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

**Feature name -**

File Attachments

## **Feature description -**

Users can attach relevant files, documents, and resources to tasks, ensuring that all necessary information is accessible in one place. File attachments can include documents, spreadsheets, images, links, and other resources needed for task execution.

## **Userstory title -**

As a user, I want to attach files to tasks so that all relevant information is easily accessible.

## **Acceptance criteria -**

['Users can attach multiple files to a task.', 'Attachments can include various file types (documents, images, etc.).', 'Users can view and download attachments.', 'The system limits the size of attachments to prevent data overload.', 'Users can remove attachments if needed.']

## **Generated Test Cases:**

## Test Cases for File Attachments Feature:

**\*\*1. Verify that users can attach multiple files to a task\*\***

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

**\*\*Test Case Description:\*\*** This test case checks the ability to attach multiple documents to a single task.

**\*\*Preconditions:\*\*** User is logged in, a project exists with tasks.

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

- Create a new or select an existing task.
- Click on "Attach Files" button.
- Select and choose multiple files from different categories.
- Verify that all selected files are attached to the task.

**\*\*Expected Result:\*\*** The system allows the attachment of multiple files to a task.

**\*\*2. Verify that the system supports various file types\*\***

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

**\*\*Test Case Description:\*\*** This test case ensures compatibility with different file types.

**\*\*Preconditions:\*\*** User is logged in, a project exists with tasks.

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

- Add different file types (documents, images, spreadsheets, links) to a task.
- Verify that all attached files are recognized and displayed correctly.

**\*\*Expected Result:\*\*** The system supports various file types and displays them appropriately.

**\*\*3. Verify that users can view and download attachments\*\***

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

**\*\*Test Case Description:\*\*** This test case checks the functionality of viewing and downloading attached files.

**\*\*Preconditions:\*\*** User is logged in, a project exists with tasks containing attachments.

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

- Select a task with attached files.
- Verify the presence of attached files in the list.
- Click on a file to view its details.
- Download the file to local storage.

**\*\*Expected Result:\*\*** Users can view file details and download attached files successfully.

**\*\*4. Verify that the system limits the size of file attachments\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies the system limits file size to prevent data overload.

**\*\*Preconditions:\*\*** User is logged in, a project exists with tasks.

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

- Attempt to attach a file exceeding the maximum size limit.
- Verify that the system prevents the attachment and displays an error message.

**\*\*Expected Result:\*\*** The system limits the size of file attachments to prevent data overload.

**\*\*5. Verify that users can remove attachments if needed\*\***

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

**\*\*Test Case Description:\*\*** This test case checks the ability to remove previously attached files.

**\*\*Preconditions:\*\*** User is logged in, a project exists with tasks containing attachments.

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

- Attach multiple files to a task.
- Select and choose the desired files.
- Click on the "Remove Attachments" button.
- Verify that the selected files are removed from the task.

**\*\*Expected Result:\*\*** Users can remove attached files if needed.

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**Data - 29**

**Project name -**

Task Management Tool

**Project description -**

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users

should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

**Feature name -**

Recurring Tasks

**Feature description -**

Users can set tasks to repeat at specified intervals, automating the creation of recurring tasks such as weekly meetings, monthly reports, or quarterly reviews. Recurring tasks save time and effort by eliminating the need to create them manually for each occurrence.

**Userstory title -**

As a user, I want to set recurring tasks so that regular activities are automated.

**Acceptance criteria -**

['Users can set tasks to recur at specified intervals (daily, weekly, monthly).', 'The system generates instances of recurring tasks automatically.', 'Users can modify the recurrence pattern or cancel the recurrence.', 'The system notifies users of upcoming instances of recurring tasks.', 'Users can view a list of all instances of a recurring task.']

**Generated Test Cases:**

## Test Cases for Recurring Tasks Feature

**\*\*Test Case 1:\*\*** Verify that tasks can be set to recur at specified intervals

**\* \*\*Test Case ID:\*\*** RM1

**\* \*\*Test Case Description:\*\*** This test case verifies that users can set tasks to recur daily, weekly, or monthly.

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

1. Create a new task.
2. Enter task name and description.
3. Select "Recurring Task" option.

4. Choose desired recurrence interval (daily, weekly, monthly).

5. Save the task.

\* \*\*Expected Result:\*\* The system creates a recurring task and automates the creation of subsequent instances.

\*\*Test Case 2:\*\* Verify automatic generation of recurring task instances

\* \*\*Test Case ID:\*\* RM2

\* \*\*Test Case Description:\*\* This test case verifies that the system automatically generates instances of recurring tasks at the specified intervals.

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

1. Create a recurring task as in Test Case 1.
2. Monitor the task list over time.
3. Observe the creation of subsequent instances of the recurring task.

\* \*\*Expected Result:\*\* The system automatically generates and assigns due dates to the instances of the recurring task based on the selected recurrence interval.

\*\*Test Case 3:\*\* Verify the ability to modify recurring task intervals

\* \*\*Test Case ID:\*\* RM3

\* \*\*Test Case Description:\*\* This test case verifies that users can modify the recurrence interval of an existing recurring task.

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

1. Create a recurring task as in Test Case 1.
2. Select the recurring task and choose "Edit Recurrence."



3. Change the chosen recurrence interval.

4. Save the changes.

\* \*\*Expected Result:\*\* The system updates the recurrence interval of the recurring task to the new selection.

**\*\*Test Case 4:\*\* Verify cancellation of recurring tasks**

\* \*\*Test Case ID:\*\* RM4

\* \*\*Test Case Description:\*\* This test case verifies that users can cancel recurring tasks.

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

1. Create a recurring task as in Test Case 1.
2. Select the recurring task and choose "Cancel Recurrence."
3. Confirm the cancellation.

\* \*\*Expected Result:\*\* The system stops generating instances of the recurring task and removes it from the task list.

**\*\*Test Case 5:\*\* Verify notification of recurring task instances**

\* \*\*Test Case ID:\*\* RM5

\* \*\*Test Case Description:\*\* This test case verifies that the system sends notifications to users when upcoming instances of recurring tasks are approaching.

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

1. Create a recurring task as in Test Case 1.
2. Set the reminders for the recurring task.
3. Monitor the notifications section.

\* \*\*Expected Result:\*\* The system sends timely notifications to users about upcoming instances of the

recurring task.

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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

**\*\*1. Verify that users can add tags and labels to tasks\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies the ability to add both tags and labels to tasks and ensures the information is saved correctly.

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

- Create a new task.
- Click on the "Add tag/label" button.
- Enter a relevant tag or label and click "Add".
- Verify that the tag or label appears on the task.

**\*\*2. Verify that tags can be customized and edited\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies that users can customize the text of existing tags and labels.

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

- Create a new tag or label.
- Edit the text of the tag/label.
- Verify that the updated text is saved and applied to the associated tasks.

**\*\*3. Verify that tasks can be filtered and sorted based on tags and labels\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies the ability to filter and sort tasks based on their assigned tags and labels.

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

- Assign tags and labels to multiple tasks.

- Use the search and filter bar to search for tasks with specific tags or labels.
- Verify that the tasks are filtered correctly.

**\*\*4. Verify that the system displays tags and labels prominently in the task list\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies that tags and labels are displayed prominently in the task list and are easily visible to the user.

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

- Create tasks and assign tags or labels to them.
- Navigate to the task list.
- Verify that tags and labels are clearly displayed alongside tasks.

**\*\*5. Verify that users can remove tags and labels if needed\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies the ability to remove tags and labels from tasks without any issues.

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

- Assign a tag or label to a task.
- Right-click the tag/label and select "Remove".
- Verify that the tag or label is no longer associated with the task.

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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:\*\*** TM-01

**\*\*Test Case Description:\*\*** This test case ensures that users can successfully change the status of tasks from "To Do" to "In Progress", "In Progress" to "Completed", and vice versa.

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

- Create a new task.
- Assign a status of "To Do."
- Select the desired status from the dropdown menu.
- Verify that the status of the task has been updated.

**\*\*Test Case 2:\*\*** Verify that the system displays task status prominently in the task list

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

**\*\*Test Case Description:\*\*** This test case verifies that the system displays the status of tasks in a clear and concise manner, using different colors or symbols.

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

- Create multiple tasks with different statuses.
- Check the displayed status of each task.
- Verify that the color-coding or symbols are intuitive and easily understood.

**\*\*Test Case 3:\*\*** Verify that users can view the progress percentage of tasks

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

**\*\*Test Case Description:\*\*** This test case ensures that the system displays the progress percentage of each task, indicating the completion level.

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

- Create a task with a deadline.
- Track the progress of the task over time.
- Verify that the progress percentage is updated accordingly.

**\*\*Test Case 4:\*\*** Verify that the system provides notifications for status changes

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

**\*\*Test Case Description:\*\*** This test case verifies that the system sends notifications to users when the status of their assigned tasks changes.

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

- Assign a task to a user.
- Change the status of the assigned task.
- Verify that the assigned user receives a notification about the status change.

**\*\*Test Case 5:\*\*** Verify that task status can be filtered and sorted

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

**\*\*Test Case Description:\*\*** This test case ensures that users can filter and sort tasks based on their status, allowing for better organization and prioritization.

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

- Create multiple tasks with different statuses.
- Use the filter options to narrow down the displayed tasks.
- Verify that only tasks with the selected status are displayed.

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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 Management Tool - Task Filtering and Sorting

**\*\*Test Case 1:\*\*** Verify that tasks can be filtered based on due date

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

**\*\*Test Case Title:\*\*** Verify that tasks can be filtered based on due date

**\*\*Test Case Description:\*\*** This test case verifies that users can filter tasks based on their due date, allowing them to focus on urgent or upcoming tasks.

**\*\*Test Data:\*\*** Various due dates for tasks

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

- Create tasks with different due dates.
- Navigate to the task list.



- Select the "Due Date" filter.
- Choose a specific due date range.
- Verify that tasks with the selected due date range are displayed.

**\*\*Test Case 2:\*\*** Verify that tasks can be sorted by priority

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

**\*\*Test Case Title:\*\*** Verify that tasks can be sorted by priority

**\*\*Test Case Description:\*\*** This test case verifies that users can sort tasks based on their priority level, allowing them to prioritize tasks effectively.

**\*\*Test Data:\*\*** Tasks with different priority levels (high, medium, low)

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

- Create tasks with different priority levels.
- Navigate to the task list.
- Click on the "Priority" column header.
- Verify that tasks are sorted in the desired order.

**\*\*Test Case 3:\*\*** Verify that the system provides multiple filter and sort options in the task list

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

**\*\*Test Case Title:\*\*** Verify that the system provides multiple filter and sort options in the task list

**\*\*Test Case Description:\*\*** This test case verifies that the system offers various filter and sort options for the task list, allowing for customized task management.

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

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

- Navigate to the task list.

- Check the available filter and sort options.
- Verify that the available options are intuitive and relevant.

**\*\*Test Case 4:\*\*** Verify that users can save and apply custom filter and sort settings

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

**\*\*Test Case Title:\*\*** Verify that users can save and apply custom filter and sort settings

**\*\*Test Case Description:\*\*** This test case verifies that users can create custom filter and sort combinations and save them for future use.

**\*\*Test Data:\*\*** Custom filter and sort criteria

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

- Create a custom filter or sort combination.
- Save the custom setting.
- Load the saved setting from the list.
- Verify that the saved settings are applied correctly.

**\*\*Test Case 5:\*\*** Verify that filters and sorts do not affect the actual data

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

**\*\*Test Case Title:\*\*** Verify that filters and sorts do not affect the actual data

**\*\*Test Case Description:\*\*** This test case verifies that filtering and sorting tasks does not alter the original data stored in the system.

**\*\*Test Data:\*\*** Various tasks with different attributes

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

- Create tasks with different attributes.

- Filter or sort the tasks.
- Verify that the original data remains intact.

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## **Data - 33**

### **Project name -**

Task Management Tool

### **Project description -**

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

### **Feature name -**

Time Tracking

### **Feature description -**

Users can track the time spent on individual tasks, enabling accurate time management, project billing, and resource allocation. Time tracking features can include timers, timesheets, and reports that capture billable hours and productivity metrics.

### **Userstory title -**

As a user, I want to track the time spent on tasks so that I can manage my time efficiently.

### **Acceptance criteria -**

['Users can start and stop a timer for each task.', 'The system records and displays total time spent on tasks.', 'Users can manually enter or adjust time entries.', 'Time tracking data is stored and can be exported.', 'The system provides reports on time spent per task or project.']

### **Generated Test Cases:**

## \*\*Test Cases for Time Tracking Feature:\*\*

**\*\*1. Verify that users can start and stop the timer for each task\*\***

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

**\*\*Test Case Description:\*\*** This test case ensures that users can initiate and halt the timer functionality associated with individual tasks.

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

- Create a new task.
- Start the timer.
- Verify that the timer is running.
- Stop the timer.
- Verify that the timer has stopped and the time spent is recorded.

**\*\*2. Verify that the system records and displays the total time spent on tasks\*\***

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

**\*\*Test Case Description:\*\*** This test case confirms that the system accurately tracks and displays the cumulative time spent on each task.

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

- Create multiple tasks.
- Start timer for each task.
- Complete the tasks.
- Verify that the system displays the total time spent on each completed task.

**\*\*3. Verify that users can manually enter or adjust time entries\*\***

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

**\*\*Test Case Description:\*\*** This test case assesses the functionality of manually inputting or editing time entries for tasks.

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

- Create a task.
- Start the timer.
- Manually enter different time values for the completed task.
- Verify that the recorded time matches the manually entered time.

**\*\*4. Verify that time tracking data is stored and can be exported\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies the storage and export functionality of time tracking data.

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

- Track time on multiple tasks.
- Go to the time tracking report.
- Export the time tracking data.
- Verify that the exported data includes all tracked time for completed tasks.

**\*\*5. Verify that the system provides reports on time spent per task or project\*\***

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

**\*\*Test Case Description:\*\*** This test case ensures that the system generates comprehensive reports based on tracked time.

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

- Track time on several tasks.
- Generate a report on time spent per task.
- Verify that the report summarizes the total time spent on each task or project.

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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

**\*\*Test Case 1:\*\*** Verify that users can create and save task templates

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

**\* \*\*Test Case Description:\*\*** This test case ensures that users can successfully create and save custom templates containing predefined tasks, descriptions, assignees, and due dates.

**\* \*\*Test Data:\*\*** Template name, list of tasks with descriptions and assignees, due dates.

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

1. Navigate to the "Templates" section
2. Click on "New Template"
3. Provide a template name
4. Define task structure with descriptions and assignees
5. Set due dates for tasks
6. Click "Save Template" button

**\* \*\*Expected Result:\*\*** The system displays a confirmation message and lists the newly created template.

**\*\*Test Case 2:\*\*** Verify that users can apply templates to new tasks

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

**\* \*\*Test Case Description:\*\*** This test case ensures that users can easily apply saved templates to new tasks or projects.

**\* \*\*Test Data:\*\*** Existing task template

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

1. Navigate to the "New Task" page
2. Click on the desired template from the available list
3. Confirm that pre-defined tasks and their attributes are automatically populated.

**\* \*\*Expected Result:\*\*** The new task is created with the structure and attributes defined in the selected

template.

**\*\*Test Case 3:\*\*** Verify that users can edit or delete templates as needed

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

\* **\*\*Test Case Description:\*\*** This test case validates that users can modify existing templates and delete them when no longer needed.

\* **\*\*Test Data:\*\*** Existing task template

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

1. Select a saved template
2. Edit template details and modify task attributes
3. Delete the template from the list

\* **\*\*Expected Result:\*\*** Template details are updated, and the template is deleted successfully from the list.

**\*\*Test Case 4:\*\*** Verify that the system displays a list of available templates

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

\* **\*\*Test Case Description:\*\*** This test case ensures that the system properly displays a list of available task templates for selection.

\* **\*\*Test Data:\*\*** No specified data

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

1. Navigate to the "Templates" section
2. Verify that a list of saved templates is displayed

\* **\*\*Expected Result:\*\*** The system displays a list of all available templates in the "Templates" section.

**\*\*Test Case 5:\*\*** Verify that the system handles invalid template data gracefully



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

\* \*\*Test Case Description:\*\* This test case ensures that the system gracefully handles invalid or incomplete template data during creation or editing.

\* \*\*Test Data:\*\* Invalid field values such as empty names or unsupported data types

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

1. Attempt to create or edit a template with invalid data
2. Observe system behavior and error messages

\* \*\*Expected Result:\*\* The system displays appropriate error messages and prevents incomplete or invalid templates from being saved.

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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

**\*\*Test Case 1:\*\*** Verify that tasks can be successfully synchronized with Google Calendar

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

\* **\*\*Test Case Title:\*\*** Verify that tasks can be successfully synchronized with Google Calendar

\* **\*\*Test Case Description:\*\*** This test case verifies the basic functionality of syncing tasks with Google Calendar.

\* **\*\*Test Suite:\*\*** Calendar Integration

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

\* **\*\*Preconditions:\*\*** User has linked their Google Calendar account to the app.

\* **\*\*Test Data:\*\*** Various tasks with different deadlines and descriptions.

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

1. Create a new task.
2. Assign a deadline and description.
3. Click the "Sync with Calendar" button.
4. Verify that the task appears in Google Calendar.

\* **\*\*Expected Result:\*\*** The task is successfully added to Google Calendar.

**\*\*Test Case 2:\*\*** Verify that reminders for tasks can be set through the calendar

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

\* **\*\*Test Case Title:\*\*** Verify that reminders for tasks can be set through the calendar

\* \*\*Test Case Description:\*\* This test case verifies the functionality of setting reminders for tasks directly from the calendar view.

\* \*\*Test Suite:\*\* Calendar Integration

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

\* \*\*Preconditions:\*\* As in Test Case 1.

\* \*\*Test Data:\*\* A task with an upcoming deadline.

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

1. Create a new task.
2. Select a date and time in the future for the deadline.
3. Click the "Set Reminder" button.
4. Verify that a reminder for the task appears in the calendar.

\* \*\*Expected Result:\*\* A reminder for the chosen deadline is set in the calendar.

\*\*Test Case 3:\*\* Verify synchronization is automatic when changes are made to tasks

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

\* \*\*Test Case Title:\*\* Verify synchronization is automatic when changes are made to tasks

\* \*\*Test Case Description:\*\* This test case verifies that changes made to tasks in the app automatically update in the linked calendar.

\* \*\*Test Suite:\*\* Calendar Integration

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

\* \*\*Preconditions:\*\* As in Test Case 1.

\* \*\*Test Data:\*\* Existing task with updated deadline or description.

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

1. Update the deadline or description of an existing task in the app.
2. Verify that the change is reflected in Google Calendar.

\* \*\*Expected Result:\*\* Changes to the task are automatically reflected in the linked calendar.

**\*\*Test Case 4:\*\*** Verify that users can manage calendar sync settings within the app

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

**\* \*\*Test Case Title:\*\*** Verify that users can manage calendar sync settings within the app

**\* \*\*Test Case Description:\*\*** This test case verifies the functionality of managing calendar synchronization preferences within the app.

**\* \*\*Test Suite:\*\*** Calendar Integration

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

**\* \*\*Preconditions:\*\*** As in Test Case 1.

**\* \*\*Test Data:\*\*** Different calendar connection options.

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

1. Go to the settings menu.
2. Select "Calendar Integration."
3. Choose desired options for calendar connection.
4. Verify that changes are saved.

**\* \*\*Expected Result:\*\*** Users can modify their calendar sync preferences within the app.

**\*\*Test Case 5:\*\*** Verify that the system handles errors gracefully when syncing with the calendar

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

**\* \*\*Test Case Title:\*\*** Verify that the system handles errors gracefully when syncing with the calendar

**\* \*\*Test Case Description:\*\*** This test case verifies that the system displays informative and helpful messages in case of synchronization errors.

**\* \*\*Test Suite:\*\*** Calendar Integration

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

**\* \*\*Preconditions:\*\*** As in Test Case 1.

**\* \*\*Test Data:\*\*** Invalid calendar connection details.

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

1. Provide invalid calendar connection details.

2. Verify that an appropriate error message is displayed.

\* \*\*Expected Result:\*\* The system displays a helpful and informative error message explaining the issue.

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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 successfully duplicate a task.\*\***

**\*\*Test Case ID:\*\* TM-Dup-01**

**\*\*Test Case Description:\*\*** This test case ensures that users can easily duplicate existing tasks by providing a straightforward process.

**\*\*Preconditions:\*\*** User is logged in, existing task exists.

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

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

- Create a new task.
- Select the "Duplicate" option.
- Verify that a new, duplicate task is created alongside the original.

**\*\*Expected Result:\*\*** The cloned task contains all original details.

**\*\*2. Verify that duplicated tasks retain all original details.\*\***

**\*\*Test Case ID:\*\* TM-Dup-02**

**\*\*Test Case Description:\*\*** This test case ensures that copying a task includes all previously assigned details, deadlines, descriptions, and attachments.

**\*\*Preconditions:\*\*** Existing task with assigned values exists.

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

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

- Create a task with specific details like description, assignee, deadline, and attachments.
- Duplicate the task.
- Review the duplicated task.

**\*\*Expected Result:\*\*** All original details are accurately copied to the new task.

**\*\*3. Verify that users can modify the duplicated task if needed.\*\***

**\*\*Test Case ID:\*\* TM-Dup-03**

**\*\*Test Case Description:\*\*** This test case ensures that users can customize the duplicated task without affecting the original.

**\*\*Preconditions:\*\*** Existing task exists.

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

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

- Duplicate a task.
- Modify the name, description, or assigned user.
- Verify that the changes are reflected only in the duplicated task.

**\*\*Expected Result:\*\*** Modifications are specific to the cloned task only.

**\*\*4. Verify that the system clearly indicates that a task has been duplicated.\*\***

**\*\*Test Case ID:\*\* TM-Dup-04**

**\*\*Test Case Description:\*\*** This test case ensures that the system clearly communicates which tasks have been duplicated.

**\*\*Preconditions:\*\*** Existing task exists.

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

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

- Create a new task.
- Select the "Duplicate" option.
- Verify that a message confirms the successful duplication.

**\*\*Expected Result:\*\*** A clear notification is displayed confirming the duplication process.

**\*\*5. Verify that duplicated tasks are saved and displayed in the task list.\*\***

**\*\*Test Case ID:\*\*** TM-Dup-05

**\*\*Test Case Description:\*\*** This test case ensures that cloned tasks are saved and displayed alongside the original in the list.

**\*\*Preconditions:\*\*** Existing task exists.

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

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

- Create a new task.
- Duplicate the task.
- Verify that the duplicated task is listed in the task list.

**\*\*Expected Result:\*\*** The cloned task appears in the task list alongside the original.

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## **Data - 37**

### **Project name -**

Task Management Tool

### **Project description -**

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

### **Feature name -**

Task History



## **Feature description -**

Users can view the history of changes and updates made to tasks, tracking modifications, comments, and other relevant activity. Task history provides a comprehensive audit trail of task-related actions, facilitating accountability, and transparency in task management.

## **Userstory title -**

As a user, I want to view the history of changes to tasks so that I can track updates and modifications.

## **Acceptance criteria -**

['Users can view a detailed history of changes to tasks.', 'The history includes modifications, comments, and other relevant activity.', 'Users can filter the history by type of change or date.', 'The system provides timestamps for all changes.', 'Task history is accessible from the task details page.']

## **Generated Test Cases:**

## Test Cases for Task Management Tool - Task History Feature

**\*\*1. Verify that users can view a detailed history of changes to tasks\*\***

Test Case ID: TM-001

Test Case Title: Verify that users can view a detailed history of changes to tasks

Test Case Description: This test case verifies that users can access and review a comprehensive history of edits, comments, and other actions taken on individual tasks.

Test Suite: Task History

Test Priority: High

Preconditions: User is logged in, a task with previous edits exists

Test Data: N/A

Test Steps:

- Navigate to the task details page of an existing task.
- Click on the "History" tab.

- Verify that the list displays a chronological history of changes made to the task.
- Click on a specific change to expand the details.

Expected Result: The system displays a detailed record of the change, including the user who made it, the timestamp, and the nature of the change.

**\*\*2. Verify that the history includes modifications, comments, and other relevant activity\*\***

Test Case ID: TM-002

Test Case Title: Verify that the history includes modifications, comments, and other relevant activity

Test Case Description: This test case confirms that the task history tracks and displays modifications, comments, and other relevant actions taken on the task.

Test Suite: Task History

Test Priority: High

Preconditions: User has created a task with some modifications and comments

Test Data: N/A

Test Steps:

- Create a task with multiple edits, comments, and attachments.
- Navigate to the task details page and access the "History" tab.
- Verify that the recorded history includes all edits, comments, and attached files.

Expected Result: The system captures and displays a complete history of relevant activity related to the task.

**\*\*3. Verify that users can filter the history by type of change or date\*\***

Test Case ID: TM-003

Test Case Title: 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 history based on the type of change (e.g., edits, comments) or date range.

Test Suite: Task History

Test Priority: Medium

Preconditions: User has created a task with edits and comments from different dates

Test Data: N/A

Test Steps:

- Navigate to the task details page and access the "History" tab.
- Select the desired filter criteria (type of change or date range).
- Verify that only relevant entries are displayed in the history list.

Expected Result: The system filters the history based the chosen criteria, displaying only the desired entries.

**\*\*4. Verify that the system provides timestamps for all changes\*\***

Test Case ID: TM-004

Test Case Title: Verify that the system provides timestamps for all changes

Test Case Description: This test case verifies that the task history displays timestamps for each action taken on the task.

Test Suite: Task History

Test Priority: High

Preconditions: User has created a task and made edits

Test Data: N/A

Test Steps:

- Create a task and make multiple edits.
- Navigate to the task details page and access the "History" tab.
- Verify that each listed action in the history has a timestamp associated with it.

Expected Result: The system records and displays timestamps for all changes made to the task.

**\*\*5. Verify that task history is accessible from the task details page\*\***

Test Case ID: TM-005

Test Case Title: Verify that task history is accessible from the task details page

Test Case Description: This test case verifies that the task history feature is accessible directly from the task details page.

Test Suite: Task History

Test Priority: Medium

Preconditions: User is logged in, a task exists

Test Data: N/A

Test Steps:

- Navigate to the details page of an existing task.
- Check if the "History" tab is available.
- Click on the "History" tab and verify access to the task history.

Expected Result: The system allows access to the task history directly from the task details page.

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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**

**\*\*1. Verify that the system sends email notifications for task updates\*\***

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

**\* Test Case Description:** This test case ensures that the system sends email notifications to users when there are updates to their assigned tasks.

**\* Preconditions:** User is logged in, has an assigned task.

**\* Test Data:** Existing assigned task with updates.

**\* Test Steps:**

- Assign a task to the user.
- Make changes to the assigned task.
- Verify that an email notification is sent to the user with the update details.

**\*\*2. Verify that mobile push notifications are delivered for task mentions\*\***

\* Test Case ID: TM-2

\* Test Case Description: This test case confirms that the system delivers mobile push notifications for mentions of the user in tasks or comments.

\* Preconditions: User has enabled mobile notifications.

\* Test Data: Task with mention in the comments section.

\* Test Steps:

- Assign a task where the user is mentioned.
- Verify that a push notification is received on the mobile device.

**\*\*3. Verify that users can customize notification preferences\*\***

\* Test Case ID: TM-3

\* Test Case Description: This test case checks if users can customize their notification preferences and select their preferred delivery channels.

\* Preconditions: User is logged in.

\* Test Data: Various notification preferences.

\* Test Steps:

- Go to notification settings.
- Choose preferred delivery channels (email, push notifications, in-app alerts).

- Verify that the selected preferences are saved and applied.

**\*\*4. Verify that notification history is logged for future reference\*\***

\* Test Case ID: TM-4

\* Test Case Description: This test case verifies that the system logs notification history, allowing users to review previous notifications.

\* Preconditions: User has received notifications for various activities.

\* Test Data: N/A

\* Test Steps:

- Access notification history.
- Verify that a list of past notifications is displayed with relevant details.

**\*\*5. Verify that the system handles invalid notification settings gracefully\*\***

\* Test Case ID: TM-5

\* Test Case Description: This test case checks if the system handles invalid input when setting notification preferences.

\* Preconditions: User is logged in.

\* Test Data: Invalid input for notification preferences.

\* Test Steps:

- Attempt to set an invalid preference (e.g., invalid email address).
- Verify that a meaningful error message is displayed and the setting is not saved.

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**Project name -**

Task Management Tool

**Project description -**

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

**Feature name -**

Task Archiving

**Feature description -**

Completed or inactive tasks can be archived or moved to a separate section, decluttering the task list and maintaining focus on active tasks. Task archiving helps users keep their task lists organized and prioritized, without losing access to important historical data.

**Userstory title -**

As a user, I want to archive completed tasks so that I can keep my task list focused on active tasks.

**Acceptance criteria -**

['Users can archive completed or inactive tasks.', 'Archived tasks are moved to a separate section for easy access.', 'Users can search and view archived tasks.', 'The system provides an option to restore archived tasks to the active list.', 'Archived tasks retain all original details and history.']

**Generated Test Cases:**

## Test Cases for Task Archiving Feature

**\*\*1. Verify that completed tasks can be archived\*\***

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



**\*\*Test Case Description:\*\*** This test case verifies that completed tasks can be successfully archived to the designated section.

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

- Create a completed task.
- Navigate to the task list.
- Locate the completed task.
- Click the "Archive" button.
- Verify that the task is moved to the archived section.

**\*\*2. Verify that archived tasks are searchable\*\***

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

**\*\*Test Case Description:\*\*** This test case confirms that archived tasks can be easily retrieved through the search function.

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

- Navigate to the archived tasks section.
- Search for a specific archived task.
- Verify that the correct task is displayed in the search results.

**\*\*3. Verify that users can restore archived tasks\*\***

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

**\*\*Test Case Description:\*\*** This test case checks that users have the option to restore archived tasks back to the active list.

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

- Archive a completed task.
- Navigate back to the active task list.

- Locate the archived task in the "Archived Tasks" section.
- Click the "Restore" button.
- Verify that the task returns to the active list.

**\*\*4. Verify that archived tasks retain all original data\*\***

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

**\*\*Test Case Description:\*\*** This test case ensures that archived tasks retain all original attributes and history.

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

- Create a task with specific details and attachments.
- Archive the task.
- Retrieve the archived task.
- Verify that all original data is still intact and accessible.

**\*\*5. Verify that the system provides clear notifications for archived tasks\*\***

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

**\*\*Test Case Description:\*\*** This test case assesses that the system sends relevant notifications to users regarding archived tasks.

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

- Create a task and set a deadline.
- Complete the task.
- Archive the completed task.
- Verify that a notification is sent indicating the task has been archived.

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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 -**

Guest Access

**Feature description -**

Users can grant limited access to external collaborators or clients, allowing them to view and collaborate on specific tasks or projects without full platform access. Guest access features provide flexibility in sharing task information and involving external stakeholders in project discussions and updates.

**Userstory title -**

As a user, I want to grant guest access to external collaborators so that they can view and collaborate on specific tasks.

**Acceptance criteria -**

['Users can invite external collaborators as guests with limited access.', 'Guests can view and collaborate on specific tasks or projects.', 'The system provides clear distinctions between guest and full access roles.', 'Users can manage and revoke guest access at any time.', 'Guests cannot access sensitive or restricted areas of the platform.']

**Generated Test Cases:**

## Test Cases for Guest Access Feature

**\*\*Test Case 1: Verify that users can invite external collaborators as guests\*\***

\* Test Case ID: TM-1

- \* Test Case Title: Verify that users can invite external collaborators as guests
- \* Test Case Description: This test case verifies that users can invite individuals with email addresses outside the organization to collaborate on specific tasks or projects without granting them full platform access.
- \* Preconditions: User is logged in, Project or task is selected
- \* Test Data: Email address of an external collaborator
- \* Test Steps: 1. Navigate to project/task, 2. Click "Invite Guest", 3. Enter email address, 4. Send invite, 5. Verify invitation is received by the guest
- \* Expected Result: Guest receives an invitation and can access the designated project/task

**\*\*Test Case 2: Verify that guests can view and collaborate on specific tasks or projects\*\***

- \* Test Case ID: TM-2
- \* Test Case Title: Verify that guests can view and collaborate on specific tasks or projects
- \* Test Case Description: This test case ensures that guests can access and collaborate on designated tasks and projects without having access to sensitive information or platform features.
- \* Preconditions: User has invited a guest and shared a project/task
- \* Test Data: Shared project/task details
- \* Test Steps: 1. Guest receives invitation, 2. Click on the project/task link, 3. Participate in discussions, 4. Add comments or suggestions
- \* Expected Result: Guest can contribute to the shared project/task and access relevant information

**\*\*Test Case 3: Verify that the system provides clear distinctions between guest and full access roles\*\***

- \* Test Case ID: TM-3
- \* 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 platform access, ensuring proper user roles and permissions.

\* Preconditions: User has invited a guest

\* Test Data: N/A

\* Test Steps: 1. Compare access levels of guest and full platform users, 2. Verify limited access for guests in settings

\* Expected Result: The system displays different access levels and permissions for guests and full platform users.

**\*\*Test Case 4: Verify that users can manage and revoke guest access at any time\*\***

\* Test Case ID: TM-4

\* Test Case Title: Verify that users can manage and revoke guest access at any time

\* Test Case Description: This test case ensures that users have the ability to manage and revoke guest access to shared projects or tasks when necessary.

\* Preconditions: User has invited a guest

\* Test Data: Email address of the guest

\* Test Steps: 1. Manage guest access, 2. Revoke access, 3. Verify guest access is revoked

\* Expected Result: Guest access is successfully revoked and the guest is notified of the change.

**\*\*Test Case 5: Verify that guests cannot access sensitive or restricted areas of the platform\*\***

\* Test Case ID: TM-5

\* Test Case Title: Verify that guests cannot access sensitive or restricted areas of the platform

\* Test Case Description: This test case ensures that guests are restricted from accessing sensitive information

or functionalities to maintain platform security.

\* Preconditions: Guest has been invited to a project/task

\* Test Data: N/A

\* Test Steps: 1. Attempt to access restricted section, 2. Verify access is denied

\* Expected Result: The guest is unable to access restricted areas and receives an appropriate notification.

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## **Data - 41**

### **Project name -**

Task Management Tool

### **Project description -**

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

### **Feature name -**

Task Import/Export

### **Feature description -**

Users can import tasks from external sources or export tasks to other task management tools or file formats. Import/export capabilities facilitate data migration and integration with other systems, ensuring seamless collaboration and workflow management across platforms.

### **Userstory title -**

As a user, I want to import and export tasks so that I can migrate data between different task management tools.

### **Acceptance criteria -**

['Users can import tasks from external sources in various formats (e.g., CSV, Excel).', 'Users can export tasks to other task management tools or file formats.', 'The system provides clear mapping of fields during

import/export.', 'Users can preview imported data before finalizing the process.', 'The system logs import/export activities for future reference.']

## Generated Test Cases:

### ## Task Management Tool - Test Cases

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

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

\*\*Test Case Title:\*\* Verify that tasks can be successfully imported from CSV files

\*\*Test Case Description:\*\* This test case ensures the system correctly imports tasks from CSV files, including field mapping, data integrity, and error handling.

\*\*Preconditions:\*\* User account, CSV file with tasks

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

- Upload a CSV file with tasks
- Verify the imported tasks appear in the task list
- Check the field mapping for accuracy

\*\*Expected Result:\*\* Valid tasks are imported and seamlessly integrated into the system.

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

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

\*\*Test Case Title:\*\* Verify that the system handles invalid data during import

\*\*Test Case Description:\*\* This test case checks how the system responds to invalid data formats or fields in the imported CSV file.

\*\*Preconditions:\*\* User account, CSV file with invalid data

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

- Upload a CSV file with invalid data (e.g., non-numeric values, missing fields)
- Observe the system's error handling and feedback

**\*\*Expected Result:\*\*** The system clearly communicates the import errors and prevents invalid data from being imported.

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

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

**\*\*Test Case Title:\*\*** Verify that tasks can be securely exported to different formats

**\*\*Test Case Description:\*\*** This test case ensures the system offers secure export of tasks to various formats, ensuring smooth data migration.

**\*\*Preconditions:\*\*** User account, selected task(s)

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

- Choose an export format (e.g., CSV, Excel)
- Download the exported file
- Verify the exported data is accurate

**\*\*Expected Result:\*\*** The exported data is accurate and compatible with the target application or file format.

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

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

**\*\*Test Case Title:\*\*** Verify that the import/export process provides clear field mapping information

**\*\*Test Case Description:\*\*** This test case checks if the system clearly explains how fields are mapped between the imported/exported file and the internal data model.



**\*\*Preconditions:\*\*** User account, imported/exported file

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

- Import/export tasks
- Review the import/export logs
- Verify the field mapping explanation

**\*\*Expected Result:\*\*** The system provides detailed information about how fields were mapped during the import/export process.

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

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

**\*\*Test Case Title:\*\*** Verify that the system logs import/export activities for traceability

**\*\*Test Case Description:\*\*** This test case ensures the system maintains a record of all import/export activities for future reference and auditing.

**\*\*Preconditions:\*\*** User account

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

- Import/export tasks
- Review the import/export history
- Verify the recorded data includes timestamps and relevant details

**\*\*Expected Result:\*\*** The system maintains a comprehensive log of all import/export activities, including date, time, and details.

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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:**

## Test Cases for Task Prioritization Feature

**\*\*1. Verify that users can set and adjust task priorities\*\***

\* Test Case ID: PM-1

\* Test Case Description: This test case ensures that users can successfully set and change the priority of tasks.

\* Preconditions: User is logged in, a task is created.

\* Test Data: Various priority levels.

\* Test Steps:

- Create a task.
- Assign different priority levels.
- Verify that the priority indicator changes accordingly.
- Change the priority and ensure that the order of tasks changes.

\* Expected Result: The system allows users to set and adjust task priorities successfully.

**\*\*2. Verify that tasks can be sorted and filtered based on priority levels\*\***

\* Test Case ID: PM-2

\* Test Case Description: This test case verifies that tasks can be easily sorted and filtered based on their assigned priority.

\* Preconditions: User has created tasks with different priority levels.

\* Test Data: N/A

\* Test Steps:

- Sort tasks by priority level.
- Filter tasks by specific priority levels.
- Verify that only tasks with the selected priority level are displayed.

\* Expected Result: The system allows sorting and filtering tasks based on priority levels.

**\*\*3. Verify that the system provides visual indicators of task priority\*\***

\* Test Case ID: PM-3

\* Test Case Description: This test case ensures that the system clearly visualizes the priority of tasks through visual indicators.

\* Preconditions: User has created tasks with different priority levels.

\* Test Data: N/A

\* Test Steps:

- Create tasks with varying priority levels.
- Verify that different priority levels are assigned different colors or symbols.
- Click on a task and confirm that its priority level is reflected in the visual indicators.

\* Expected Result: The system clearly displays the priority of tasks using visual indicators.

**\*\*4. Verify that users receive notifications for high-priority tasks\*\***

\* Test Case ID: PM-4

\* Test Case Description: This test case ensures that users receive reminders for high-priority tasks.

\* Preconditions: User has enabled notifications.

\* Test Data: A high-priority task.

\* Test Steps:

- Create a high-priority task.
- Set a deadline for the task.
- Confirm that an alert is triggered closer to the deadline.

\* Expected Result: The system sends timely notifications for high-priority tasks.

**\*\*5. Verify that priority changes are logged and tracked\*\***

\* Test Case ID: PM-5

\* Test Case Description: This test case ensures that the system tracks and records changes made to task priorities.

\* Preconditions: User has created tasks with different priority levels.

\* Test Data: N/A

\* Test Steps:

- Create a task and assign it a priority level.
- Change the priority level of the task.
- Verify that the change is logged and recorded in the system.

\* Expected Result: The system tracks and records changes made to task priorities.

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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**

**\*\*Test Case 1:\*\*** Verify that tasks can be assigned to team members

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

**\*\*Test Case Description:\*\*** Ensures users can assign tasks to team members and that assigned team members receive notification.

**\*\*Preconditions:\*\*** User and team members are logged in, a task is created.

**\*\*Test Data:\*\*** Task details, team member names.

**\*\*Test Steps:\*\*** 1. Assign the task to a team member. 2. Verify that the assigned team member receives a notification. 3. Check that the assigned user's task list reflects the assigned task.

**\*\*Expected Result:\*\*** The assigned team member receives a notification and the assigned task is visible in their task list.

**\*\*Test Case 2:\*\*** Verify that updates and comments are shared seamlessly

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

**\*\*Test Case Description:\*\*** Tests the functionality of sharing updates and comments on tasks.

**\*\*Preconditions:\*\*** User creates a task, assigns it to a team member.

**\*\*Test Data:\*\*** Update/comment text/files.

**\*\*Test Steps:\*\*** 1. User updates the task or adds a comment. 2. Verify that the update/comment is visible to

the assigned team member. 3. Confirm that subsequent updates/comments are also shared.

**\*\*Expected Result:\*\*** Shared updates and comments are readily available to assigned team members.

**\*\*Test Case 3:\*\*** Verify that assigned tasks are visible in the collaboration history

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

**\*\*Test Case Description:\*\*** Ensure that the system maintains a historical record of assigned tasks.

**\*\*Preconditions:\*\*** User assigns a task to a team member.

**\*\*Test Data:\*\*** Task details.

**\*\*Test Steps:\*\*** 1. Assign a task to a team member. 2. Navigate to the task history. 3. Verify that the assigned task is recorded in the collaboration history.

**\*\*Expected Result:\*\*** The assigned task is clearly documented in the collaboration history.

**\*\*Test Case 4:\*\*** Verify notification management for task updates and comments

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

**\*\*Test Case Description:\*\*** Ensure that the system provides timely notifications for task-related updates and comments.

**\*\*Preconditions:\*\*** User assigns a task to a team member.

**\*\*Test Data:\*\*** Relevant updates/comments to the assigned task.

**\*\*Test Steps:\*\*** 1. Update or comment on the assigned task. 2. Observe the notification preferences of the assigned team member. 3. Verify that the assigned team member receives a timely notification.

**\*\*Expected Result:\*\*** Team members receive timely notifications for assigned tasks and their corresponding updates/comments.

**\*\*Test Case 5:\*\*** Verify the effectiveness of collaboration features for project management

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

**\*\*Test Case Description:\*\*** Ensures the overall effectiveness of collaboration features in facilitating project management.

**\*\*Preconditions:\*\*** Multiple team members are assigned to a project.

**\*\*Test Data:\*\*** Project plan, team member assignments.

**\*\*Test Steps:\*\*** 1. Assign tasks to team members based on project plan. 2. Monitor team communication and task updates. 3. Assess the efficiency of collaboration in achieving project goals.

**\*\*Expected Result:\*\*** Effective collaboration enhances team communication, task management, and project completion efficiency.

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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**

**\*\*1. Verify that users can view task statuses\*\***

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

**\*\*Test Case Title:\*\* Verify that users can view the status of individual tasks.**

**\*\*Test Case Description:\*\* Ensure that the system displays the status of each task, indicating whether it is completed, in progress, or not started.**

**\*\*Preconditions:\*\* User is logged in, project with tasks exists.**

**\*\*Test Data:\*\* List of tasks with different statuses.**

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

- Create or select a project.
- Create tasks with different statuses.
- Navigate to the task list.
- Verify that the status of each task is accurately displayed.

**\*\*Expected Result:\*\* The system correctly displays the status of all tasks in the list.**

**\*\*2. Verify that users can track task progress and deadlines\*\***

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

**\*\*Test Case Title:\*\*** Verify that users can track task progress and deadlines.

**\*\*Test Case Description:\*\*** Ensure that the system allows users to monitor the progress of tasks and identify upcoming deadlines.

**\*\*Preconditions:\*\*** User is logged in, task created with deadline.

**\*\*Test Data:\*\*** Existing task with defined deadline.

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

- Select a task.
- Track the progress of the task over time.
- Verify that the deadline is displayed and countdown.

**\*\*Expected Result:\*\*** The system tracks the progress of the task and displays the deadline accurately.

**\*\*3. Verify that tasks are updated in real-time\*\***

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

**\*\*Test Case Title:\*\*** Verify that task updates are reflected in real-time.

**\*\*Test Case Description:\*\*** Ensure that any changes made to a task are immediately reflected in the system.

**\*\*Preconditions:\*\*** User is logged in, task created.

**\*\*Test Data:\*\*** Existing task.

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

- Create or edit a task.
- Make changes to the task details.
- Verify that the changes are reflected on the screen immediately.

**\*\*Expected Result:\*\*** The system updates the task details in real-time.

**\*\*4. Verify that the system provides visual indicators for task progress\*\***

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

**\*\*Test Case Title:\*\* Verify that the system provides visual indicators for task progress.**

**\*\*Test Case Description:\*\* Ensure the system utilizes visual cues to represent the progress of tasks, such as progress bars or color-coding.**

**\*\*Preconditions:\*\* User is logged in, task created.**

**\*\*Test Data:\*\* Existing task with defined progress.**

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

- Select a task.
- Monitor the progress bar as the task progresses.
- Verify that different progress levels are visually represented.

**\*\*Expected Result:\*\* The system provides clear visual indicators for the progress of each task.**

**\*\*5. Verify that the system tracks deadlines and sends reminders\*\***

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

**\*\*Test Case Title:\*\* Verify that the system tracks deadlines and sends reminders.**

**\*\*Test Case Description:\*\* Ensure that the system tracks deadlines and sends reminders to users when deadlines are approaching.**

**\*\*Preconditions:\*\* User is logged in, task with deadline created.**

**\*\*Test Data:\*\* Existing task with defined deadline.**

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

- Set a deadline for a task.
- Approach the deadline.
- Verify that the system sends a reminder notification.

**\*\*Expected Result:\*\*** The system tracks deadlines and sends reminder notifications to users promptly.

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## **Data - 45**

### **Project name -**

Task Management Tool

### **Project description -**

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

### **Feature name -**

Task Notifications

### **Feature description -**

Users receive notifications for task-related events, such as new tasks, updates, comments, and upcoming deadlines. The notifications aim to keep users informed and engaged with their tasks.

### **Userstory title -**

As a user, I want to receive notifications for task-related events so that I can stay informed and manage my tasks effectively.

### **Acceptance criteria -**

['Users receive notifications for new tasks.', 'Users receive notifications for task updates and comments.', 'Users receive reminders for upcoming deadlines.', 'Notification settings can be customized by users.', '']

### **Generated Test Cases:**

## Test Cases for Task Notifications Feature

**\*\*1. Verify that users receive notifications for new tasks\*\***

Test Case ID: TM-1

Test Case Description: Ensure that users receive timely notifications when new tasks are assigned to them.

Test Data: Assigned task with different priorities and deadlines

Test Steps:

- Create a new project.
- Assign a new task to yourself.
- Verify that a notification is received with the task details.

**\*\*2. Verify that users receive notifications for task update and comments\*\***

Test Case ID: TM-2

Test Case Description: Ensure users receive notifications when existing tasks are updated or comments are added.

Test Data: Existing task with previous updates and comments

Test Steps:

- Assign a task with some initial comments.
- Update the task content.
- Add new comments to the task.
- Verify that notifications are received for both updates and comments.

**\*\*3. Verify that reminders for upcoming deadlines are sent\*\***

Test Case ID: TM-3

Test Case Description: Ensure that users receive timely reminders before upcoming deadlines.

Test Data: Task assigned with a specific deadline

Test Steps:

- Assign a task with a deadline that is close to the current time.
- Verify that a reminder notification is sent closer to the deadline.

**\*\*4. Verify that notification settings can be customized\*\***

Test Case ID: TM-4

Test Case Description: Ensure users can configure notification preferences for task-related events.

Test Data: Different notification preferences for different events

Test Steps:

- Access notification settings.
- Modify preferences for different event types.
- Verify that the changes are saved and reflected in subsequent notifications.

**\*\*5. Verify that notification frequency aligns with user preferences\*\***

Test Case ID: TM-5

Test Case Description: Ensure that notification frequency aligns with user-defined preferences.

Test Data: Different notification frequency settings

Test Steps:

- Set notification frequency for a specific event type.
- Perform actions that trigger the event multiple times.
- Verify that notifications are delivered at the specified frequency.

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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:**

## Task Management Tool - Test Cases

**\*\*Test Case 1:\*\*** Verify that users can create and assign tasks to different categories

Test Case ID: TCAT-1

Test Case Title: Verify that users can create and assign tasks to different categories

Test Case Description: This test case verifies that users can create and assign tasks to multiple categories, ensuring proper organization and management of tasks.

Test Suite: Task Categorization

Test Priority: High

Preconditions: User is logged in, Project exists with defined categories

Test Data: Task description, category selection from dropdown list

Test Steps:

1. Create a new task.
2. Select desired category from the dropdown list.
3. Assign the task to a user or team member.
4. Verify that the task is associated with the chosen category.

Postconditions: Task is created and assigned to the selected category.

Expected Result: The system allows the creation and categorization of tasks successfully.

**\*\*Test Case 2:\*\*** Verify that tasks can be moved between categories

Test Case ID: TCAT-2

Test Case Title: Verify that tasks can be moved between categories

Test Case Description: This test case ensures that tasks can be easily moved between different categories or projects.

Test Suite: Task Categorization

Test Priority: Medium

Preconditions: Existing task with assigned category

Test Data: New category selection



Test Steps:

1. Select the desired task.
2. Choose the "Move to" option and select a different category.
3. Verify that the task's category in the list and its association with the new category are updated.

Postconditions: Task category has changed successfully.

Expected Result: The system allows moving tasks between categories effortlessly.

**\*\*Test Case 3:\*\*** Verify that category or project information is accurately reflected in task views

Test Case ID: TCAT-3

Test Case Title: Verify that category or project information is accurately reflected in task views

Test Case Description: This test case ensures that the categorization information is correctly displayed in various views of tasks.

Test Suite: Task Categorization

Test Priority: High

Preconditions: Existing tasks assigned to different categories

Test Data: Category/project name

Test Steps:

1. Navigate through different task lists or views (e.g., Kanban board, list view, calendar view).
2. Verify that tasks are correctly grouped and categorized in the selected view.

Postconditions: Task categorization information is accurate in different views.

Expected Result: The system displays categorized tasks correctly across various views.

**\*\*Test Case 4:\*\*** Verify that users receive notifications and reminders for upcoming deadlines

Test Case ID: TCAT-4

Test Case Title: Verify that users receive notifications and reminders for upcoming deadlines

Test Case Description: This test case ensures that users receive timely notifications and reminders as deadlines approach for their assigned tasks.

Test Suite: Task Categorization

Test Priority: Medium

Preconditions: User has tasks with defined deadlines

Test Data: User notification settings

Test Steps:

1. Set reminder preferences for upcoming deadlines.
2. Approach deadline of a task.
3. Verify that the user receives a notification and reminder for the deadline.

Postconditions: User receives deadline notifications and reminders.

Expected Result: The system delivers timely notifications and reminders for upcoming deadlines.

**\*\*Test Case 5:\*\*** Verify that task categorization is reflected in reports and summaries

Test Case ID: TCAT-5

Test Case Title: Verify that task categorization is reflected in reports and summaries

Test Case Description: This test case ensures that task categorization is accurately reflected in reports and summaries.

Test Suite: Task Categorization

Test Priority: High

Preconditions: Existing tasks categorized into different projects

Test Data: Project selection

Test Steps:

1. Generate a report or summary of categorized tasks.
2. Verify that tasks are categorized appropriately in the report or summary.

Postconditions: Task categorization is accurately reflected in reports and summaries.

Expected Result: The system provides comprehensive reports and summaries reflecting task categorization.

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## **Data - 47**

### **Project name -**

Task Management Tool

### **Project description -**

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

### **Feature name -**

Task Search

### **Feature description -**

Users can search for tasks based on various criteria, such as task name, description, category, priority, or due date. The task search feature aims to help users quickly find specific tasks within their project or task list.

### **Userstory title -**

As a user, I want to search for tasks based on various criteria so that I can quickly find specific tasks within my project or task list.

### **Acceptance criteria -**

['Users can search for tasks by name.', 'Users can search for tasks by description.', 'Users can filter search results by category, priority, or due date.', 'Search results are accurate and relevant.', '']

### **Generated Test Cases:**

## ## Test Cases for Task Search Feature

**\*\*Test Case 1:\*\*** Verify that users can search for tasks by name

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

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

**\*\*Preconditions:\*\*** User is logged in, task list exists

**\*\*Test Data:\*\*** Task name

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

1. Open the task list
2. Enter a keyword in the search bar
3. Verify that the results only include tasks with the keyword in the title.

**\*\*Expected Result:\*\*** The search results display only tasks that contain the search term in their titles.

**\*\*Test Case 2:\*\*** Verify that users can search for tasks by description

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

**\*\*Test Case Description:\*\*** This test case verifies that users can search for tasks using their descriptions and that the search results relevant to the keywords.

**\*\*Preconditions:\*\*** User is logged in, task list exists

**\*\*Test Data:\*\*** Task description

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

1. Open the task list
2. Enter a keyword in the search bar
3. Verify that the results include tasks with the keyword in the description.

**\*\*Expected Result:\*\*** The search results display tasks that contain the search term in their descriptions.

**\*\*Test Case 3:\*\*** Verify that users can filter search results by category

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

**\*\*Test Case Description:\*\*** This test case verifies that users can filter search results by category and that only tasks belonging to the selected category are displayed.

**\*\*Preconditions:\*\*** User is logged in, task list exists

**\*\*Test Data:\*\*** Task category

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

1. Open the task list
2. Enter a keyword in the search bar
3. Select a category from the filter options
4. Verify that only tasks in that category are displayed.

**\*\*Expected Result:\*\*** The search results display only tasks assigned to the selected category.

**\*\*Test Case 4:\*\*** Verify that search results are accurate and relevant

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

**\*\*Test Case Description:\*\*** This test case verifies that the search results are accurate and relevant to the keywords entered.

**\*\*Preconditions:\*\*** User is logged in, task list exists

**\*\*Test Data:\*\*** Various keywords

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

1. Enter different keywords in the search bar
2. Verify that the search results are related to the keywords entered.

**\*\*Expected Result:\*\*** The search results are relevant and match the keywords entered.

**\*\*Test Case 5:\*\*** Verify that searching tasks does not alter due dates

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

**\*\*Test Case Description:\*\*** This test case verifies that searching for tasks does not alter the due dates of the tasks.

**\*\*Preconditions:\*\*** User is logged in, task list exists

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

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

1. Select a task
2. Verify the due date displayed
3. Search for the same task using the search bar
4. Verify the due date remains unchanged.

**\*\*Expected Result:\*\*** The due date of the task remains unchanged after searching.

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## **Data - 48**

### **Project name -**

Task Management Tool

### **Project description -**

Build a task management tool that allows users to create, assign, prioritize, and track tasks and projects. Users should be able to set deadlines, add descriptions and attachments to tasks, organize tasks into categories or projects, collaborate with team members, and receive notifications and reminders for upcoming deadlines.

### **Feature name -**

Task Collaboration

### **Feature description -**

Users can collaborate on tasks by adding comments, attaching files, and sharing tasks with other users. Task collaboration aims to enhance team communication and productivity.

## **Userstory title -**

As a user, I want to collaborate on tasks by adding comments, attaching files, and sharing tasks with other users so that I can work more effectively with my team.

## **Acceptance criteria -**

['Users can add comments to tasks.', 'Users can attach files to tasks.', 'Users can share tasks with other users.', 'Task collaboration features work seamlessly and enhance team communication.', '']

## **Generated Test Cases:**

## Test Cases for Task Collaboration Feature

**\*\*Test Case 1:\*\*** Verify that users can add comments to tasks

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

**\*\*Test Case Title:\*\*** Verify that users can add comments to tasks

**\*\*Test Case Description:\*\*** This test case verifies that users can input text comments to tasks and that the comments are saved and displayed correctly.

**\*\*Preconditions:\*\*** User is logged in, a task is created

**\*\*Test Data:\*\*** "This is a comment"

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

- Open a created task
- Click on the "Add Comment" button
- Input a comment in the provided field
- Click on the "Add Comment" button

**\*\*Expected Result:\*\*** The comment is saved and displayed beneath the task description.

**\*\*Test Case 2:\*\*** Verify that users can attach files to tasks

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

**\*\*Test Case Title:\*\* Verify that users can attach files to tasks**

**\*\*Test Case Description:\*\* This test case verifies that users can select and attach files to tasks and that the files are saved correctly.**

**\*\*Preconditions:\*\* User is logged in, a task is created**

**\*\*Test Data:\*\* "task\_attachment.pdf"**

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

- Open a created task
- Click on the "Attach Files" button
- Select the desired file from the computer
- Click on the "Attach" button

**\*\*Expected Result:\*\* The file is attached to the task and displayed in the "Attachments" section.**

**\*\*Test Case 3:\*\* Verify that users can share tasks with other users**

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

**\*\*Test Case Title:\*\* Verify that users can share tasks with other users**

**\*\*Test Case Description:\*\* This test case verifies that users can share tasks with other users and that the recipients receive notification and access to the shared task.**

**\*\*Preconditions:\*\* User is logged in, a task is created**

**\*\*Test Data:\*\* Team member email address**

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

- Open a created task
- Click on the "Share Task" button
- Enter the email address of the target user



- Click on the "Share" button

**\*\*Expected Result:\*\*** The target user receives an invitation to collaborate on the task and has access to the shared task.

**\*\*Test Case 4:\*\*** Verify that task collaboration features work seamlessly and enhance team communication

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

**\*\*Test Case Title:\*\*** Verify that task collaboration features work seamlessly and enhance team communication

**\*\*Test Case Description:\*\*** This test case verifies that collaborating on tasks using comments, attachments, and shared ownership improves team communication and efficiency.

**\*\*Preconditions:\*\*** Users are assigned to a project with shared tasks

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

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

- Collaboratively work on a shared task using comments and attachments

- Monitor team communication and task progress

**\*\*Expected Result:\*\*** Improved team communication and collaboration leading to efficient task completion.

**\*\*Test Case 5:\*\*** Verify that task collaboration features encompass good usability and interaction

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

**\*\*Test Case Title:\*\*** Verify that task collaboration features encompass good usability and interaction

**\*\*Test Case Description:\*\*** This test case verifies that the interaction with task collaboration features is intuitive and user-friendly.

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

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

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

- Explore the task collaboration features
- Verify that the interface is clear and consistent
- Test accessibility for different user scenarios

**\*\*Expected Result:\*\*** Smooth and intuitive interaction with the task collaboration features, ensuring efficient teamwork.

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**Data - 49**

**Project name -**

Online Learning Platform

**Project description -**

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

**Feature name -**

Course Creation Tools

**Feature description -**

Instructors are equipped with intuitive tools to develop comprehensive courses encompassing various multimedia elements like videos, presentations, quizzes, and assignments. These tools empower instructors to structure content effectively, ensuring an engaging and informative learning experience for students.

**Userstory title -**

As an instructor, I want intuitive course creation tools so that I can easily develop comprehensive courses.

**Acceptance criteria -**

['Instructors can create courses using videos, presentations, quizzes, and assignments.', 'The tools are

user-friendly and require minimal technical skills.', 'Courses can be previewed before publishing.', 'Instructors can save courses as drafts.', 'Courses can be edited post-publishing.']

## **Generated Test Cases:**

### **## Test Cases for Online Learning Platform's Course Creation Tools**

**\*\*Test Case 1:\*\*** Verify that instructors can create courses using videos

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

**\*\*Test Case Title:\*\*** Verify that instructors can create courses using videos

**\*\*Test Case Description:\*\*** This test case verifies that instructors can upload and integrate video files into their courses during course creation.

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

1. Log in as an instructor.
2. Navigate to the Course Creation Tool.
3. Click on the "Add Video" button.
4. Select a video file from the local storage.
5. Verify that the video is added to the course content.

**\*\*Test Case 2:\*\*** Verify that the course creation tools are user-friendly

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

**\*\*Test Case Title:\*\*** Verify that the course creation tools are user-friendly

**\*\*Test Case Description:\*\*** This test case verifies that the course creation interface is intuitive and easy to navigate.

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

1. Log in as an instructor.
2. Access the Course Creation Tool and explore the available features.
3. Assess the clarity and organization of the interface.
4. Look for user-friendly guidance and tutorials.

**\*\*Test Case 3:\*\*** Verify that courses can be previewed before publishing

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

**\*\*Test Case Title:\*\*** Verify that courses can be previewed before publishing

**\*\*Test Case Description:\*\*** This test case ensures that instructors can preview their courses in their entirety before making them available to students.

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

1. Create a course using the Course Creation Tool.
2. Click on the "Preview Course" button.

3. Verify that the preview accurately reflects the course content.

**\*\*Test Case 4:\*\*** Verify that instructors can save courses as drafts

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

**\*\*Test Case Title:\*\*** Verify that instructors can save courses as drafts

**\*\*Test Case Description:\*\*** This test case ensures that instructors can save their work in progress without publishing the course.

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

1. Create a course using the Course Creation Tool.
2. Click on the "Save as Draft" button.
3. Verify that the course is saved as a draft and can be further edited.

**\*\*Test Case 5:\*\*** Verify that courses can be edited post-publishing

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

**\*\*Test Case Title:\*\*** Verify that courses can be edited post-publishing

**\*\*Test Case Description:\*\*** This test case ensures that instructors can make changes to their published courses after initial publication.

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

1. Publish a course.
2. Access the course settings.
3. Make necessary edits to the course content.
4. Verify that the changes are reflected in the published course.

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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 Cases for Interactive Lessons**

**\*\*1. Verify that interactive lessons include quizzes\*\***

Test Case ID: OL-InteractiveQuiz

Test Case Title: Verify that interactive lessons include quizzes

Test Case Description: Ensure that lessons incorporate quizzes as an interactive element for assessing learner understanding.

Test Suite: Interactive Lessons

Test Priority: High

Preconditions: User has been assigned a lesson

Test Data: Science course with a quiz section

Test Steps:

1. Access an interactive lesson
2. Navigate to the quiz section
3. Verify the presence of questions and answer options
4. Submit answers and review results

Postconditions: Quiz results are displayed

Expected Result: The system includes quizzes with questions and answer options within the interactive lessons.

**\*\*2. Verify seamless integration of interactive elements\*\***

Test Case ID: OL-SeamlessIntegration

Test Case Title: Verify seamless integration of interactive elements

Test Case Description: Ensure that interactive elements are seamlessly integrated into the lesson content without disruption.

Test Suite: Interactive Lessons

Test Priority: High

Preconditions: User has been assigned an interactive lesson

Test Data: History course with interactive simulations

Test Steps:

1. Start the interactive lesson
2. Interact with interactive simulations
3. Check for performance issues or lags
4. Verify smooth transitions between activities

Postconditions: Lesson progresses without performance issues.

Expected Result: The interactive elements are seamlessly integrated into the lesson content without causing performance bottlenecks.

**\*\*3. Verify progress tracking through interactive activities\*\***

Test Case ID: OL-ProgressTracking

Test Case Title: Verify progress tracking through interactive activities

Test Case Description: Ensure that the platform tracks learner progress through interactive activities.

Test Suite: Interactive Lessons

Test Priority: Medium

Preconditions: User has completed an interactive lesson



Test Data: Math course with discussion forums

Test Steps:

1. Participate in interactive discussions
2. Track progress in the lesson overview
3. Review completed activities in the progress log

Postconditions: Progress is accurately recorded and displayed.

Expected Result: The system effectively tracks and displays learner progress through interactive activities.

**\*\*4. Verify feedback is provided after interactive components\*\***

Test Case ID: OL-Feedback

Test Case Title: Verify feedback is provided after interactive components

Test Case Description: Ensure that feedback is provided after completing interactive activities.

Test Suite: Interactive Lessons

Test Priority: High

Preconditions: User has finished an interactive simulation

Test Data: Geography course with quizzes

Test Steps:

1. Complete an interactive simulation
2. Review the provided feedback
3. Verify the relevance and helpfulness of feedback

Postconditions: Feedback is comprehensive and actionable.

Expected Result: The system provides relevant and timely feedback after completing interactive components.

**\*\*5. Verify accessibility of interactive lessons across devices\*\***

Test Case ID: OL-DeviceAccessibility

Test Case Title: Verify accessibility of interactive lessons across devices

Test Case Description: Ensure that interactive lessons are accessible on various devices.

Test Suite: Interactive Lessons

Test Priority: Medium

Preconditions: User is accessing the platform from different devices

Test Data: Windows laptop, Android phone, iPad

Test Steps:

1. Access interactive lessons from different devices
2. Check for compatibility and responsiveness
3. Verify functionality across devices

Postconditions: Lessons are accessible from various devices.

Expected Result: The platform ensures accessibility of interactive lessons across multiple device types.

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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**

**\*\*1. Verify that learners can choose courses and modules based on their interests\*\***

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

**\* Test Case Description:** This test case ensures users can filter courses and modules based on their selected interests.

**\* Preconditions:** User has logged in, user has reviewed available course and module list.

**\* Test Data:** Various categories and topics of interest.

**\* Test Steps:**

- Navigate to the course selection page.
- Select specific interests from the available options.
- Verify that only relevant courses and modules appear in the list.

**\* Expected Result:** The system filters results based on the chosen interests.

**\*\*2. Verify that personalized learning paths adjust dynamically based on learner progress\*\***

\* Test Case ID: OLP-2

\* Test Case Description: This test case verifies the adaptability of the personalized learning path based on user progress in the courses.

\* Preconditions: User has completed some modules of a course.

\* Test Data: Progress data for completed modules.

\* Test Steps:

- Complete some modules of a chosen course.
- Log out of the platform and back in.
- Check if the recommended courses and modules have changed.

\* Expected Result: The platform recommends new courses based on the user's progressed modules.

**\*\*3. Verify that learners receive recommendations for new courses and modules\*\***

\* Test Case ID: OLP-3

\* Test Case Description: This test case ensures the system suggests additional courses and modules relevant to the user's interests.

\* Preconditions: User has completed a course or module.

\* Test Data: User's learning preferences and completed course data.

\* Test Steps:

- Complete a course or module.
- Check the "Recommendations" section for suggested offerings.

\* Expected Result: The system provides relevant recommendations based on the user's interests and completed

content.

**\*\*4. Verify that progress tracking is personalized to each learner's path\*\***

\* Test Case ID: OLP-4

\* Test Case Description: This test case ensures individual progress tracking for each learner's personalized learning path.

\* Preconditions: User has completed some modules of a course.

\* Test Data: User's learning data for completed modules.

\* Test Steps:

- Track progress in completed modules.
- Review the progress section of the platform.

\* Expected Result: The platform displays individual progress for each completed module.

**\*\*5. Verify that learners can adjust their learning paths at any time\*\***

\* Test Case ID: OLP-5

\* Test Case Description: This test case ensures users can modify their learning paths by changing their course or module selections.

\* Preconditions: User has completed some modules of a course.

\* Test Data: Changes to the selected courses/modules.

\* Test Steps:

- Go to the "Learning Path" section.
- Modify the selected courses or modules.
- Verify that the updated learning path is reflected in the platform.

\* Expected Result: The platform allows users to adjust their learning paths as needed.

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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:**

## Online Learning Platform: Test Cases

**\*\*1. Verify that progress tracking displays completed activities and grades\*\***

\* Test Case ID: OL-PT-01

\* Test Case Description: Ensure that the progress tracker correctly displays completed activities and their corresponding grades for individual modules and the entire course.

\* Preconditions: User has completed some activities in a course.

\* Test Data: Sample course with various completed activities.

\* Test Steps:

- Enroll in a course.
- Complete some activities.
- Access the progress tracker.
- Verify that completed activities and their grades are displayed.

\* Expected Result: The progress tracker displays a list of completed activities and their corresponding grades.

**\*\*2. Verify that learners can view detailed reports on their progress\*\***

\* Test Case ID: OL-PT-02

\* Test Case Description: Ensure that the system allows learners to generate detailed reports on their overall progress and performance in a course.

\* Preconditions: User has completed some activities in a course.

\* Test Data: Sample course with various completed activities.

\* Test Steps:

- Access the progress tracker.
- Click on the "Generate Report" button.
- Review the generated report.

\* Expected Result: The report provides a comprehensive breakdown of completed activities, grades, and overall performance.

**\*\*3. Verify that achievements are highlighted in the progress tracker\*\***

\* Test Case ID: OL-PT-03

\* Test Case Description: Ensure that the progress tracker visually highlights achievements such as completing modules or courses.

\* Preconditions: User has completed certain milestones in a course.

\* Test Data: Sample course with completed modules and milestones.

\* Test Steps:

- Complete modules or courses.
- Access the progress tracker.
- Verify that completed milestones are visually highlighted.

\* Expected Result: The progress tracker clearly displays completed milestones using visual indicators.

**\*\*4. Verify that users receive notifications about their progress\*\***

\* Test Case ID: OL-PT-04

\* Test Case Description: Ensure that the system sends notifications to users when they achieve milestones or complete activities.

\* Preconditions: User has enabled notifications.

\* Test Data: Sample course with specific milestones.

\* Test Steps:

- Enroll in a course.



- Complete activities that trigger notifications.

- Check notification history.

\* Expected Result: The user receives notifications for completed activities and achieved milestones.

**\*\*5. Verify that progress tracking can be exported as reports\*\***

\* Test Case ID: OL-PT-05

\* Test Case Description: Ensure that the system allows exporting progress data as comprehensive reports for record-keeping and performance analysis.

\* Preconditions: User has completed some activities in a course.

\* Test Data: Sample course with various completed activities.

\* Test Steps:

- Access the progress tracker.

- Click on the "Export Report" button.

- Review the generated report.

\* Expected Result: The exported report contains detailed information regarding completed activities and grades.

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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:**

## Online Learning Platform: Assessment and Grading Test Cases

**\*\*1. Verify that instructors can create quizzes\*\***

**\*\*Test Case ID:\*\* OL-QuizCreation-01**

**\*\*Test Case Description:\*\*** This test verifies that instructors can create quizzes with various question types.

**\*\*Preconditions:\*\*** Instructor account logged in, course selected

**\*\*Test Data:\*\*** Quiz title, question types (MCQ, Short Answer, Essay), answer options

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

- Navigate to the Assessments section.

- Click on "Create Quiz."
- Provide a title and question types.
- Enter answer options and save the quiz.

**\*\*Expected Result:\*\*** The quiz is created and accessible from the Assessments list.

**\*\*2. Verify that assessments can include various question types\*\***

**\*\*Test Case ID:\*\*** OL-QuizCreation-02

**\*\*Test Case Description:\*\*** This test verifies that the system supports multiple question types for quizzes.

**\*\*Preconditions:\*\*** Quiz created, question type selected

**\*\*Test Data:\*\*** Different question type selections (MCQ, Short Answer, Essay)

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

- Create a quiz.
- Select different question types from the available options.
- Ensure that each selected question type is reflected in the quiz creation interface.

**\*\*Expected Result:\*\*** The quiz includes the chosen question types.

**\*\*3. Verify that automatic grading is available for objective questions\*\***

**\*\*Test Case ID:\*\*** OL-Grading-01

**\*\*Test Case Description:\*\*** This test verifies that automatically graded questions receive accurate scores.

**\*\*Preconditions:\*\*** Objective question added to quiz, answer key defined

**\*\*Test Data:\*\*** Sample multiple-choice question with answer key

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

- Create a multiple-choice question.

- Provide answer options and mark the correct answer.

- Submit the quiz.

**\*\*Expected Result:\*\*** The quiz automatically grades the objective question and provides the correct answer score.

**\*\*4. Verify that manual grading is available for subjective questions\*\***

**\*\*Test Case ID:\*\*** OL-Grading-02

**\*\*Test Case Description:\*\*** This test verifies that subjective questions require manual grading.

**\*\*Preconditions:\*\*** Subjective question added to quiz

**\*\*Test Data:\*\*** Sample short answer question

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

- Create a short answer question.

- Submit the quiz.

**\*\*Expected Result:\*\*** The quiz requires manual grading and shows the question status as "Needs Grading."

**\*\*5. Verify that feedback is provided to learners after grading\*\***

**\*\*Test Case ID:\*\*** OL-Feedback-01

**\*\*Test Case Description:\*\*** This test verifies that feedback is provided to learners after grading quizzes.

**\*\*Preconditions:\*\*** Quiz graded, results available

**\*\*Test Data:\*\*** Quiz with both graded and ungraded questions

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

- Review the results of the graded quiz.

- Check for feedback provided on both automatically graded and manually graded questions.

**\*\*Expected Result:\*\*** Feedback is provided for each question, offering guidance and highlighting areas for improvement.

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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 Case 1:\*\***

**\*\*Test Case ID:\*\* Lmn8cG**

**\*\*Test Case Title:\*\* Verify that learners can post questions and responses in forums**

**\*\*Test Case Description:\*\* This test case ensures that learners can contribute to discussions by posting questions and responses in the forum.**

**\*\*Preconditions:\*\* Learner is logged in, discussion forum is available**

**\*\*Test Data:\*\* Sample question/response text**

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

- Navigate to the discussion forum
- Click on the "Post New Question" or "Reply" button
- Enter the question/response text
- Submit the post

**\*\*Expected Result:\*\* The question/response is successfully published in the forum**

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

**\*\*Test Case ID:\*\* R5e2c8**

**\*\*Test Case Title:\*\* Verify that forums support threaded discussions**

**\*\*Test Case Description:\*\* This test ensures that replies to a specific question are displayed in a threaded structure.**

**\*\*Preconditions:\*\* Learner has posted a question in the forum**

**\*\*Test Data:\*\* Reply text**

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

- Reply to the question
- Verify that the reply is nested under the original question
- Check that subsequent replies are also indented

**\*\*Expected Result:\*\*** The replies are displayed in a hierarchical thread, showing the conversation flow.

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

**\*\*Test Case ID:\*\*** Hf6g6b

**\*\*Test Case Title:\*\*** Verify that instructors can moderate discussions

**\*\*Test Case Description:\*\*** This test case verifies that instructors can access and manage discussions.

**\*\*Preconditions:\*\*** Instructor is logged in

**\*\*Test Data:\*\*** Sample discussion post

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

- Access the discussion forum
- Select a discussion thread
- Click on the "Moderate" button
- Review the discussion posts

**\*\*Expected Result:\*\*** The instructor can access the discussion thread and manage the posts.

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

**\*\*Test Case ID:\*\*** Q43wC7

**\*\*Test Case Title:\*\*** Verify that learners receive notifications for new posts

**\*\*Test Case Description:\*\*** This test case ensures that learners receive notifications when there are new posts in the forum.

**\*\*Preconditions:\*\*** Learner has enabled notifications

**\*\*Test Data:\*\*** New discussion post

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

- Post a new question or reply to a discussion
- Verify that the learner receives a notification

**\*\*Expected Result:\*\*** The learner receives a notification indicating new discussion activity.

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

**\*\*Test Case ID:\*\*** N3wF4x

**\*\*Test Case Title:\*\*** Verify that forums are accessible on all devices

**\*\*Test Case Description:\*\*** This test ensures that the discussion forum is accessible from different devices.

**\*\*Preconditions:\*\*** Different devices are available

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

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

- Access the discussion forum from different devices (desktop, mobile, tablet)
- Verify that the forum loads and functions properly on all devices

**\*\*Expected Result:\*\*** The forum is accessible and functional from all supported devices.

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**Data - 55**

**Project name -**

Online Learning Platform

**Project description -**

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

**Feature name -**



## Live Classes and Webinars

### **Feature description -**

The platform facilitates live interactive sessions, allowing instructors to conduct real-time classes and webinars through seamless video conferencing tools. These live sessions enable dynamic engagement, Q&A opportunities, and direct interaction between instructors and learners, replicating the immersive experience of traditional classroom settings.

### **Userstory title -**

As a learner, I want to attend live classes and webinars so that I can interact with instructors in real-time.

### **Acceptance criteria -**

['Live classes and webinars are conducted through video conferencing tools.', 'Learners can ask questions in real-time.', 'Sessions are recorded and available for later viewing.', 'Instructors can share screen and resources during sessions.', 'Notifications are sent before sessions start.']

### **Generated Test Cases:**

#### ## Online Learning Platform - Live Classes & Webinars Test Cases

**\*\*1. Verify that live classes and webinars are conducted through video conferencing tools\*\***

**\*\*Test Case ID:\*\* OL-LC-1**

**\*\*Test Case Description:\*\*** This test case ensures that live classes and webinars can be conducted through reliable video conferencing tools.

**\*\*Preconditions:\*\*** Instructor and learner accounts are created, video conferencing tool is integrated with the platform.

**\*\*Test Data:\*\*** Various video conferencing tool options.

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

- Join a live class or webinar as a learner.
- Verify the instructor is visible and can share their screen.

- Test the audio quality and synchronization.

**\*\*Expected Result:\*\*** Seamless video and audio connection for both instructor and learners.

**\*\*2. Verify that learners can ask questions in real-time\*\***

**\*\*Test Case ID:\*\*** OL-LC-2

**\*\*Test Case Description:\*\*** This test case ensures learners can interact with the instructor by asking questions during live sessions.

**\*\*Preconditions:\*\*** A live class or webinar is ongoing.

**\*\*Test Data:\*\*** Various questions related to the session topic.

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

- Raise your hand or use the designated question tool.
- Submit a question during the live session.
- Verify that the instructor receives the question and can respond.

**\*\*Expected Result:\*\*** Questions are delivered to the instructor clearly and receive appropriate responses.

**\*\*3. Verify that sessions are recorded and available for later viewing\*\***

**\*\*Test Case ID:\*\*** OL-LC-3

**\*\*Test Case Description:\*\*** This test case ensures recorded sessions are accessible to learners.

**\*\*Preconditions:\*\*** A live class or webinar has concluded.

**\*\*Test Data:\*\*** The specific session recording.

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

- Access the recorded session from the platform.
- Review the recording quality and audio clarity.

- Ensure session timestamps and progress indicators are accurate.

**\*\*Expected Result:\*\*** Recorded sessions are accessible, high-quality, and time-synced.

**\*\*4. Verify that instructors can share screen and resources during sessions\*\***

**\*\*Test Case ID:\*\*** OL-LC-4

**\*\*Test Case Description:\*\*** This test case assesses the platform's screen sharing functionality for instructors.

**\*\*Preconditions:\*\*** An ongoing live class or webinar.

**\*\*Test Data:\*\*** Relevant document or resource to share.

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

- Instructor shares their screen.
- Verify the shared content is visible to learners.
- Test the ability to control screen sharing permissions.

**\*\*Expected Result:\*\*** Instructors can seamlessly share their screen and resources with learners.

**\*\*5. Verify that notifications are sent before sessions start\*\***

**\*\*Test Case ID:\*\*** OL-LC-5

**\*\*Test Case Description:\*\*** This test case ensures timely reminders for upcoming live classes and webinars.

**\*\*Preconditions:\*\*** User has upcoming sessions scheduled.

**\*\*Test Data:\*\*** Specific scheduled sessions.

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

- Access notifications settings.
- Verify timely reminders for upcoming sessions.
- Ensure notification preferences can be customized.

**\*\*Expected Result:\*\*** Learners receive notifications before sessions begin, reminding them of the scheduled time.

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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 Test Cases

**\*\*1. Verify that the platform is accessible on smartphones and tablets\*\***

**\*\*Test Case ID:\*\* OLpH1**

**\*\*Test Case Description:\*\*** Ensure that the platform offers a seamless user interface optimized for touch navigation on both smartphones and tablets.

**\*\*Preconditions:\*\*** Device with mobile operating system is connected to the platform.

**\*\*Test Data:\*\*** Various smartphones and tablets running different operating systems.

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

- Access the platform on different mobile devices.
- Navigate through various sections and features.
- Test responsiveness of the layout and functionality.

**\*\*Expected Result:\*\*** The platform adapts seamlessly to different screen sizes and touch input methods.

**\*\*2. Verify that course materials are accessible and readable on mobile devices\*\***

**\*\*Test Case ID:\*\* OLpH2**

**\*\*Test Case Description:\*\*** Ensure that course materials are displayed clearly and legibly on mobile devices.

**\*\*Preconditions:\*\*** User has downloaded or is connected to the platform.

**\*\*Test Data:\*\*** Various course materials like videos, text documents, and interactive elements.

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

- Access a course on a mobile device.
- Download or stream course materials.
- Test readability of text, visuals, and interactive elements.

**\*\*Expected Result:\*\*** Course materials are accessible and readable on mobile devices.

**\*\*3. Verify that notifications are sent to mobile devices\*\***

**\*\*Test Case ID:\*\* OLpH3**

**\*\*Test Case Description:\*\*** Ensure that learners receive notifications on their mobile devices regarding platform updates, upcoming deadlines, and course announcements.

**\*\*Preconditions:\*\*** User has enabled notifications on their mobile device.

**\*\*Test Data:\*\*** Platform notifications and settings.

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

- Enable notification settings on a mobile device.
- Simulate different notification scenarios.
- Verify receipt of notifications on the mobile device.

**\*\*Expected Result:\*\*** Relevant platform notifications are delivered to mobile devices promptly.

**\*\*4. Verify that the platform supports offline access to downloaded materials\*\***

**\*\*Test Case ID:\*\* OLpH4**

**\*\*Test Case Description:\*\*** Ensure that learners can access downloaded course materials offline on their mobile devices.

**\*\*Preconditions:\*\*** User has downloaded course materials previously.

**\*\*Test Data:\*\*** Downloaded course materials.

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

- Download course materials to the mobile device.
- Disconnect from the internet connection.
- Access downloaded materials offline.

**\*\*Expected Result:\*\*** Learners can access downloaded materials seamlessly without an internet connection.

**\*\*5. Verify that the platform's mobile app is secure\*\***

**\*\*Test Case ID:\*\*** OLpH5

**\*\*Test Case Description:\*\*** Ensure that the platform utilizes security measures to protect user data and prevent unauthorized access.

**\*\*Preconditions:\*\*** User is logged into the mobile app.

**\*\*Test Data:\*\*** User credentials.

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

- Simulate malicious app access attempts.
- Test data encryption and security protocols.

**\*\*Expected Result:\*\*** The platform safeguards user data and prevents unauthorized access.

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**Data - 57**

**Project name -**

Online Learning Platform

**Project description -**

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

**Feature name -**

Resource Library

**Feature description -**

A comprehensive repository of supplementary materials such as e-books, articles, and reference guides enriches the learning experience by providing additional insights and resources. Learners can access diverse content to deepen their understanding, explore related topics, and enhance their knowledge beyond the confines of the core curriculum.

**Userstory title -**

As a learner, I want access to a resource library so that I can explore additional materials and deepen my understanding.

**Acceptance criteria -**

['Resource library includes e-books, articles, and reference guides.', 'Learners can search for specific materials.', 'Resources are categorized and tagged for easy navigation.', 'Learners can download resources for offline access.', 'Instructors can recommend resources to learners.']

**Generated Test Cases:**

## Test Cases for Online Learning Platform Resource Library

**\*\*Test Case 1:\*\*** Verify that users can search for specific materials in the resource library

Test Case ID: RL-1

Test Case Title: Verify that users can search for specific materials in the resource library

Test Case Description: Ensure that users can input keywords and retrieve relevant e-books, articles, and reference guides from the resource library.

Test Suite: Resource Library

Test Priority: High

Preconditions: User is logged in, Resource library is accessible

Test Data: Various keywords related to different subjects and topics

Test Steps:

1. Navigate to the Resource Library section.



2. Input a specific keyword or topic in the search bar.
3. Verify that relevant results are displayed in the search list.
4. Check the quality of search results for relevance and comprehensiveness.

Postconditions: Search results are displayed based on the input keyword.

Expected Result: The system returns accurate and relevant results based on the search query.

**\*\*Test Case 2:\*\*** Verify that resources are categorized and tagged for easy navigation.

Test Case ID: RL-2

Test Case Title: Verify that resources are categorized and tagged for easy navigation

Test Case Description: Ensure that resources are categorized according to subject and topic areas, making it easy for users to locate relevant materials.

Test Suite: Resource Library

Test Priority: Medium

Preconditions: User is logged in, Resource library is accessible

Test Data: Various resource categories and tags

Test Steps:

1. Navigate to the Resource Library section.
2. Explore different resource categories.
3. Verify that resources are tagged with relevant keywords.
4. Check that category and tag filters work as expected.

Postconditions: Resources are categorized and tagged logically.

Expected Result: The system facilitates efficient navigation and discovery of resources based on user needs.

**\*\*Test Case 3:\*\*** Verify that learners can download resources for offline access.

Test Case ID: RL-3

Test Case Title: Verify that learners can download resources for offline access

Test Case Description: Ensure that users can download selected e-books and articles for offline access and continue learning even when network connectivity is unavailable.

Test Suite: Resource Library

Test Priority: Medium

Preconditions: User is logged in, Resource is selected for download

Test Data: Various downloadable resources

Test Steps:

1. Select a resource from the Resource Library.
2. Click the "Download" button.
3. Verify that the resource is downloaded to the user's device.
4. Disconnect from the network and verify that the downloaded resource can be accessed offline.

Postconditions: Downloaded resource is accessible offline.

Expected Result: The system allows seamless offline access to downloaded resources.

**\*\*Test Case 4:\*\*** Verify that instructors can recommend resources to learners.

Test Case ID: RL-4

Test Case Title: Verify that instructors can recommend resources to learners

Test Case Description: Ensure that instructors can recommend relevant resources to learners directly within the platform.

Test Suite: Resource Library

Test Priority: Medium

Preconditions: User is logged in as an instructor, Resource is selected

Test Data: Recommender list of resources

Test Steps:

1. Navigate to the Resource Library section.
2. Identify relevant resources for a specific topic.
3. Recommend the selected resources to learners.
4. Verify that learners receive notification of the recommended resources.

Postconditions: Learners receive recommendations from instructors.

Expected Result: The system facilitates resource recommendations between instructors and learners.

**\*\*Test Case 5:\*\*** Verify that the resource library displays a list of recommended resources.

Test Case ID: RL-5

Test Case Title: Verify that the resource library displays a list of recommended resources

Test Case Description: Ensure that the resource library prominently displays a curated list of recommended resources tailored to user interests and needs.

Test Suite: Resource Library

Test Priority: Medium

Preconditions: User is logged in, Resource library is accessible

Test Data: No specific data required

Test Steps:

1. Navigate to the Resource Library section.
2. Check the "Recommended Resources" section.
3. Verify that the list showcases relevant and diverse resources.
4. Click through several recommended resources and validate their accessibility.

Postconditions: The "Recommended Resources" section is updated regularly.

Expected Result: The system displays a valuable list of recommended learning resources for users.

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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:**

## Test Cases for Online Learning Platform's Peer Review Feature:

\*\*1. Verify that learners can submit assignments for peer review\*\*

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

\* \*\*Test Case Description:\*\* This test case verifies that learners can upload their assignments through the designated peer review platform.

\* \*\*Preconditions:\*\* Learner account created, assignment created for peer review.

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

- Login as a learner.
- Navigate to the designated assignment page.
- Select the assignment for peer review.
- Submit the assignment file.

\* \*\*Expected Result:\*\* The assignment is successfully submitted for peer review.

**\*\*2. Verify that peers can provide feedback on submitted assignments\*\***

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

\* \*\*Test Case Description:\*\* This test case ensures that peers can provide feedback on submitted assignments in a structured manner.

\* \*\*Preconditions:\*\* Reviewer account created, submitted assignment available for review.

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

- Review the submitted assignment.
- Click on the "Provide Feedback" button.
- Input detailed and meaningful feedback.
- Submit the feedback.

\* \*\*Expected Result:\*\* The feedback is saved and visible to the submitter.

**\*\*3. Verify that the review process is structured\*\***

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

\* \*\*Test Case Description:\*\* This test case confirms that the platform offers a clear and intuitive review process with defined criteria and feedback guidelines.

\* \*\*Preconditions:\*\* Review guidelines available for the assignment.

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

- Review the review guidelines.
- Review an assigned submission.
- Verify that the feedback aligns with established criteria.

\* \*\*Expected Result:\*\* The review process is guided by clear criteria and provides actionable feedback.

\*\*4. Verify that learners can view feedback on their work\*\*

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

\* \*\*Test Case Description:\*\* This test case verifies that learners can access and review the feedback provided by peers.

\* \*\*Preconditions:\*\* Learner reviewed assignment is available with feedback.

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

- Access the feedback section for the reviewed assignment.
- Review the provided feedback from peers.

\* \*\*Expected Result:\*\* Learners can access and review all feedback on their submitted work.

\*\*5. Verify that reviewers remain anonymous\*\*

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

\* \*\*Test Case Description:\*\* This test case confirms that reviewers remain anonymous during the peer review process to ensure unbiased feedback.

\* \*\*Preconditions:\*\* Reviewer and submitter accounts are different.

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

- Review an assignment from a different learner.
- Verify that the reviewer's identity remains anonymous.

\* \*\*Expected Result:\*\* Reviewers' identities remain confidential during the peer review process.

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## **Data - 59**

### **Project name -**

Online Learning Platform

### **Project description -**

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

### **Feature name -**

Certificates and Badges

### **Feature description -**

Upon successful completion of courses or specific milestones, learners receive certificates and badges to recognize their achievements and accomplishments. These credentials provide tangible recognition of learners' efforts, skills, and expertise, enhancing their credentials and demonstrating their commitment to continuous learning and professional development.

### **Userstory title -**

As a learner, I want to earn certificates and badges so that I can showcase my achievements and skills.

### **Acceptance criteria -**

['Learners earn certificates upon course completion.', 'Badges are awarded for specific achievements and milestones.', 'Certificates and badges are accessible through learner profiles.', 'Learners can share their certificates and badges on social media.', 'Instructors can issue custom badges for special achievements.']

### **Generated Test Cases:**

## Test Cases for Online Learning Platform's Certificate and Badge Feature:

**\*\*1. Verify that certificates are awarded upon course completion.\*\***

**\*\*Test Case ID:\*\* OLPP-Cert-01**

**\*\*Test Case Description:\*\*** This test ensures that certificates are automatically awarded to learners upon successful completion of a course.

**\*\*Preconditions:\*\*** User has enrolled in a course, completed all course requirements.

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

- Enroll in a course.
- Complete all course requirements.
- Verify that a certificate is awarded under the learner's profile.

**\*\*Expected Result:\*\*** Certificate is issued and accessible on the learner's profile.

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

**\*\*Test Case ID:\*\* OLPP-Cert-02**

**\*\*Test Case Description:\*\*** This test ensures that badges are awarded for completing specific milestones or achieving certain criteria within a course.

**\*\*Preconditions:\*\*** User has enrolled in a course, completed specific milestones.

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



- Enroll in a course.
- Complete tasks or activities that trigger badge issuance.
- Verify that the appropriate badge is awarded to the learner's profile.

**\*\*Expected Result:\*\*** Badge is issued and displayed on the learner's profile.

**\*\*3. Verify that certificates and badges are accessible through learner profiles.\*\***

**\*\*Test Case ID:\*\*** OLPP-Cert-03

**\*\*Test Case Description:\*\*** This test ensures that learners can access their earned certificates and badges through their profile.

**\*\*Preconditions:\*\*** User has earned certificates or badges.

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

- Log in to your learner profile.
- Navigate to the "Certificates & Badges" section.
- Verify that your earned certificates and badges are displayed.

**\*\*Expected Result:\*\*** Certificates and badges are listed and accessible to the user.

**\*\*4. Verify that learners can share certificates and badges on social media.\*\***

**\*\*Test Case ID:\*\*** OLPP-Cert-04

**\*\*Test Case Description:\*\*** This test ensures that learners can share their earned certificates and badges on social media platforms.

**\*\*Preconditions:\*\*** User has connected their social media accounts to their learner profile.

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

- Access the "Share Certificates & Badges" section.

- Select a certificate or badge to share.
- Choose the desired social media platform.
- Verify that the certificate/badge is shared on the specified platform.

**\*\*Expected Result:\*\*** Certificate/badge is successfully shared on the chosen social media platform.

**\*\*5. Verify that instructors can issue custom badges for special achievements.\*\***

**\*\*Test Case ID:\*\*** OLPP-Cert-05

**\*\*Test Case Description:\*\*** This test ensures that instructors can create and issue custom badges for special achievements or milestones in their courses.

**\*\*Preconditions:\*\*** Instructor account is authorized to issue custom badges.

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

- Navigate to the "Custom Badges" section.
- Create a new custom badge.
- Define the criteria and requirements for earning the badge.
- Assign the badge to learners who meet the criteria.

**\*\*Expected Result:\*\*** Custom badges are created and awarded 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

**\*\*1. Verify that learners earn points for completing activities\*\***

**\* \*\*Test Case Description:\*\*** This test verifies that points are awarded correctly for completing various learning activities like quizzes, discussions, and challenges.

**\* \*\*Preconditions:\*\*** User is logged in, course is selected.

**\* \*\*Test Data:\*\*** Completion of different learning activities.

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

- Complete a quiz
- Participate in a discussion

- Participate in a challenge
- Review the points earned in the gamification dashboard.

\* \*\*Expected Result:\*\* Points are awarded appropriately for completed activities and are reflected in the gamification dashboard.

**\*\*2. Verify that levels are achieved based on accumulated points\*\***

\* \*\*Test Case Description:\*\* This test verifies that levels are assigned based on the total points earned by a learner.

\* \*\*Preconditions:\*\* User has earned points through various activities.

\* \*\*Test Data:\*\* Different point thresholds for different levels.

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

- Accumulate points by completing activities.
- Monitor the progress on the gamification dashboard.

\* \*\*Expected Result:\*\* Levels are assigned based on the total points earned and reflected on the gamification dashboard.

**\*\*3. Verify that leaderboards display top-performing learners\*\***

\* \*\*Test Case Description:\*\* This test verifies that the leaderboard functionality displays the top learners based on their points.

\* \*\*Preconditions:\*\* Users have earned points through various activities.

\* \*\*Test Data:\*\* User profiles with different points.

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

- Access the gamification dashboard.

- Review the leaderboard.

\* \*\*Expected Result:\*\* The leaderboard correctly displays the top learners based on their points.

**\*\*4. Verify that badges are awarded for reaching milestones\*\***

\* \*\*Test Case Description:\*\* This test verifies that badges are awarded to learners who reach specific milestones.

\* \*\*Preconditions:\*\* User has completed certain course requirements.

\* \*\*Test Data:\*\* Specific milestones associated with each badge.

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

- Complete assigned learning modules.

- Review the gamification dashboard.

\* \*\*Expected Result:\*\* Badges are awarded for completing designated milestones.

**\*\*5. Verify that learners can view their progress in the gamification dashboard\*\***

\* \*\*Test Case Description:\*\* This test verifies that learners can access and track their progress through the gamification dashboard.

\* \*\*Preconditions:\*\* User is logged in, has completed some activities.

\* \*\*Test Data:\*\* User details and progress data.

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

- Access the gamification dashboard.

- Review points earned, levels achieved, and badges awarded.

\* \*\*Expected Result:\*\* The gamification dashboard displays user progress, allowing them to track their learning journey.

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## **Data - 61**

### **Project name -**

Online Learning Platform

### **Project description -**

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

### **Feature name -**

Multilingual Support

### **Feature description -**

The platform offers robust multilingual support, catering to learners from diverse linguistic backgrounds and facilitating access to educational resources in their preferred language. Through multilingual interfaces, course materials, and support services, the platform ensures inclusivity, accessibility, and cultural relevance for all learners.

### **Userstory title -**

As a learner, I want multilingual support so that I can access the platform in my preferred language.

### **Acceptance criteria -**

['The platform interface is available in multiple languages.', 'Course materials are available in different languages.', 'Learners can select their preferred language at any time.', 'Multilingual support includes translated help and support resources.', 'Instructors can provide content in multiple languages.']

### **Generated Test Cases:**

## Test Cases for Online Learning Platform - Multilingual Support

\*\*1. Verify that the platform interface is available in multiple languages\*\*

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

**\*\*Test Case Title:\*\* Verify that the platform interface is available in multiple languages**

**\*\*Test Case Description:\*\* This test case ensures that the user interface of the platform is accessible in different languages, catering to learners from diverse linguistic backgrounds.**

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

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

- Login to the platform
- Select a different language from the language selection menu
- Verify that the interface elements are translated correctly

**\*\*Expected Result:\*\* The platform interface displays in the selected language.**

**\*\*2. Verify that course materials are available in different languages\*\***

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

**\*\*Test Case Title:\*\* Verify that course materials are available in different languages**

**\*\*Test Case Description:\*\* This test case checks that course materials offered on the platform are available in multiple languages, enhancing inclusivity for learners with different language preferences.**

**\*\*Test Data:\*\* English, Japanese, Arabic**

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

- Browse through different courses
- Check the availability of course materials in different languages

**\*\*Expected Result:\*\* Course materials are available in the selected language, alongside translation options for other supported languages.**

**\*\*3. Verify that learners can select their preferred language at any time\*\***

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

**\*\*Test Case Title:\*\* Verify that learners can select their preferred language at any time**

**\*\*Test Case Description:\*\* This testing ensures that learners can choose their preferred language for the platform interface throughout their interaction.**

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

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

- Access different sections of the platform
- Check that the language selection option is readily available
- Select a different language and verify the interface change

**\*\*Expected Result:\*\* The platform interface changes to the selected language.**

**\*\*4. Verify that multilingual support includes translated help and support resources\*\***

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

**\*\*Test Case Title:\*\* Verify that multilingual support includes translated help and support resources**

**\*\*Test Case Description:\*\* This test case ensures that the platform offers translated help guides, FAQs, and support resources in different languages to enhance accessibility.**

**\*\*Test Data:\*\* Spanish, Portuguese**

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

- Access the help center or support page
- Check for translated versions of available resources

**\*\*Expected Result:\*\* Relevant support resources are available in the selected language.**



**\*\*5. Verify that instructors can provide content in multiple languages\*\***

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

**\*\*Test Case Title:\*\* Verify that instructors can provide content in multiple languages**

**\*\*Test Case Description:\*\* This test case assesses the functionality for instructors to upload and manage course materials in multiple languages.**

**\*\*Test Data:\*\* English, Chinese**

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

- Create a course
- Upload course materials in different languages
- Verify that uploaded materials are accessible in the selected language

**\*\*Expected Result:\*\* Instructors can provide course 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:**

#### **## Online Learning Platform - Accessibility Features Test Cases**

**\*\*Test Case 1:\*\*** Verify that the platform is compatible with screen readers

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

**\*\*Test Case Description:\*\*** Ensure screen readers can effectively navigate and interact with all website elements, including navigation menus, content sections, and interactive features.

**\*\*Preconditions:\*\*** Screen reader software installed and enabled.

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

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

- Navigate through the platform using a screen reader.
- Verify that all essential elements are announced and understandable.
- Test navigation menus, content sections, and interactive features.

**\*\*Expected Result:\*\*** Screen reader users can access and interact with the platform seamlessly.

**\*\*Test Case 2:\*\*** Verify that learners can adjust font sizes for better readability

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

**\*\*Test Case Description:\*\*** Ensure users can adjust font sizes independently for improved readability on

various devices and accessibility needs.

**\*\*Preconditions:\*\*** User account with access to the platform.

**\*\*Test Data:\*\*** Various font size options available in the accessibility settings.

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

- Navigate to the accessibility settings.
- Select a larger or smaller font size.
- Verify that the font size changes across the platform.

**\*\*Expected Result:\*\*** Font size is adjusted properly, ensuring comfortable readability for users with visual impairments.

**\*\*Test Case 3:\*\*** Verify color contrast options are available for improved visibility

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

**\*\*Test Case Description:\*\*** Ensure adequate color contrast options are provided to enhance accessibility for users with visual impairments.

**\*\*Preconditions:\*\*** User account with access to the platform.

**\*\*Test Data:\*\*** Various color contrast settings available in the accessibility settings.

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

- Access the accessibility settings.
- Choose different color contrast combinations.
- Verify that the text and background colors have sufficient contrast.

**\*\*Expected Result:\*\*** Different color contrast options are available to maximize readability for users with low vision.

**\*\*Test Case 4:\*\*** Verify accessibility features are easy to activate and customize

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

**\*\*Test Case Description:\*\*** Ensure the accessibility features are readily accessible and easy to customize.

**\*\*Preconditions:\*\*** User account with access to the platform.

**\*\*Test Data:\*\*** No specific data required.

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

- Locate and activate the accessibility features.
- Explore the available customization options.
- Confirm that settings are saved and applied correctly.

**\*\*Expected Result:\*\*** Users can easily activate and customize accessibility features without technical expertise.

**\*\*Test Case 5:\*\*** Verify support resources are available for learners with disabilities

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

**\*\*Test Case Description:\*\*** Ensure the platform provides accessible support resources for learners with various disabilities.

**\*\*Preconditions:\*\*** User account with access to the platform.

**\*\*Test Data:\*\*** Contact information for the accessibility support team.

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

- Visit the platform's support page.
- Locate information regarding accessibility support.
- Contact the accessibility support team for assistance.

**\*\*Expected Result:\*\*** Clear and accessible support resources are available to provide personalized assistance to learners with disabilities.

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**Data - 63**

**Project name -**

Online Learning Platform

**Project description -**

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

**Feature name -**

Discussion Moderation

**Feature description -**

Instructors actively moderate discussion forums to maintain a conducive learning environment, ensure respectful discourse, and enforce community guidelines. By facilitating constructive interactions and discouraging disruptive behavior, discussion moderation fosters a positive and collaborative learning atmosphere for all participants.

**Userstory title -**

As an instructor, I want to moderate discussions so that I can maintain a positive and respectful learning environment.

**Acceptance criteria -**

['Instructors can edit, delete, or highlight posts in discussions.', 'Instructors can mute or ban disruptive users.', 'Moderation actions are logged and reported.', 'Community guidelines are visible to all participants.', 'Notifications are sent for moderated actions.']

**Generated Test Cases:**

## Test Cases for Online Learning Platform Discussion Moderation:

**\*\*1. Verify that instructors can edit existing discussion posts.\*\***

**\* \*\*Test Case ID:\*\* ED321**

**\* \*\*Test Case Description:\*\*** This test checks that instructors can modify the content and details of existing discussion posts.

**\* \*\*Preconditions:\*\*** Instructor account logged in, existing discussion with posts.

\* \*\*Test Steps:\*\* 1. Access a discussion thread. 2. Select an existing post. 3. Edit the post content. 4. Save changes.

\* \*\*Expected Result:\*\* The post content is updated successfully.

\*\*2. Verify that instructors can delete disruptive user comments.\*\*

\* \*\*Test Case ID:\*\* DL456

\* \*\*Test Case Description:\*\* This test ensures that instructors can remove disruptive comments from discussion forums.

\* \*\*Preconditions:\*\* Instructor account logged in, discussion with disruptive comments.

\* \*\*Test Steps:\*\* 1. Access a discussion thread. 2. Identify and select disruptive comments. 3. Click "Delete" button. 4. Verify that comments are removed.

\* \*\*Expected Result:\*\* The disruptive comments are deleted from the discussion.

\*\*3. Verify that moderation actions are logged and reported.\*\*

\* \*\*Test Case ID:\*\* LR789

\* \*\*Test Case Description:\*\* This test checks that all moderator actions like edits, deletions, and mutes are logged and reported.

\* \*\*Preconditions:\*\* Instructor account logged in, active discussion thread.

\* \*\*Test Steps:\*\* 1. Moderate a discussion post. 2. Check the discussion logs. 3. Verify that the moderation action is recorded.

\* \*\*Expected Result:\*\* The system records and reports the moderation action in the discussion logs.

**\*\*4. Verify that community guidelines are visible to all participants.\*\***

**\* \*\*Test Case ID:\*\* CG901**

**\* \*\*Test Case Description:\*\*** This test ensures that the established community guidelines are readily accessible to all participants.

**\* \*\*Preconditions:\*\*** User account is logged in.

**\* \*\*Test Steps:\*\*** 1. Access the discussion forum. 2. Look for the "Community Guidelines" section. 3. Verify that the guidelines are clearly displayed.

**\* \*\*Expected Result:\*\*** The community guidelines are visible and accessible within the discussion forum.

**\*\*5. Verify that notifications are sent for moderated actions.\*\***

**\* \*\*Test Case ID:\*\* NS234**

**\* \*\*Test Case Description:\*\*** This test checks that instructors receive notifications when they moderate discussion posts.

**\* \*\*Preconditions:\*\*** Instructor account logged in, configured notification settings.

**\* \*\*Test Steps:\*\*** 1. Moderate a discussion post. 2. Verify that a notification is sent to the instructor.

**\* \*\*Expected Result:\*\*** The system sends a notification to the instructor regarding the moderated discussion post.

-----

**Data - 64**

**Project name -**

Online Learning Platform

**Project description -**

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and

topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

**Feature name -**

Learning Analytics

**Feature description -**

Instructors leverage robust learning analytics dashboards to gain insights into learner engagement, performance trends, and course effectiveness. By analyzing data on learner interactions, progress, and outcomes, instructors can make informed decisions, personalize instruction, and optimize the learning experience to meet learners' needs effectively.

**Userstory title -**

As an instructor, I want access to learning analytics so that I can understand learner engagement and performance.

**Acceptance criteria -**

['Learning analytics dashboards display engagement metrics.', 'Performance trends are visualized over time.', 'Instructors can access detailed reports on learner progress.', 'Analytics data is updated in real-time.', 'Instructors can export analytics reports for further analysis.']

**Generated Test Cases:**

## Test Cases for Online Learning Platform - Learning Analytics

**\*\*1. Verify that engagement metrics are displayed on analytics dashboards\*\***

**\* \*\*Description:\*\*** This test case verifies that the learning analytics dashboards display relevant engagement metrics such as active users, session time, average time per session, and page views per user.

**\* \*\*Preconditions:\*\*** Instructor user is logged in, a course is assigned to them.

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

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



- Navigate to the learning analytics dashboard.
- Verify that engagement metrics are displayed for the assigned course.
- Ensure the data is updated in real-time as users engage with the course.

\* \*\*Expected Result:\*\* The dashboard displays accurate and updated engagement metrics for the assigned course.

## **\*\*2. Verify that performance trends are visualized over time\*\***

\* \*\*Description:\*\* This test case verifies that the platform visualizes performance trends of learners over time, allowing instructors to track progress and effectiveness.

\* \*\*Preconditions:\*\* Instructor user has access to historical data on learner performance.

\* \*\*Test Data:\*\* Data on learner performance over a period of time.

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

- Navigate to the historical performance reports.
- Select a period of time.
- Verify that performance trends are displayed for key metrics like test scores and quiz completion rates.

\* \*\*Expected Result:\*\* The system visualizes performance trends over the selected period.

## **\*\*3. Verify that instructors can access detailed reports on learner progress\*\***

\* \*\*Description:\*\* This test case verifies that instructors can access detailed reports on learner progress, including completion rates, quiz scores, and discussion forum engagement.

\* \*\*Preconditions:\*\* Instructor user has access to learner analytics.

\* \*\*Test Data:\*\* Data on individual learners' performance in the course.

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

- Generate a report on learner progress.
- Review individual learner data in the report.
- Verify that the report includes relevant progress metrics.

\* \*\*Expected Result:\*\* The report provides comprehensive insights into learner progress for individual students.

#### \*\*4. Verify that analytics data is updated in real-time\*\*

\* \*\*Description:\*\* This test case verifies that learning analytics data is updated in real-time as learners interact with the platform, ensuring instructors have up-to-date information.

\* \*\*Preconditions:\*\* Instructor user is actively interacting with learners in the course.

\* \*\*Test Data:\*\* Learner activity data.

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

- Engage in various activities within the course (e.g., participating in discussions, completing tasks, submitting quizzes).

- Monitor the analytics dashboard in real-time.

\* \*\*Expected Result:\*\* Data on learner interactions is reflected immediately on the analytics dashboard.

#### \*\*5. Verify that instructors can export analytics reports for further analysis\*\*

\* \*\*Description:\*\* This test case verifies that instructors can download and export analytics reports for further analysis in external tools.

\* \*\*Preconditions:\*\* Instructor user has access to analytics reports.

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

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

- Download a report on learner progress.
- Export the report to a compatible format.

\* \*\*Expected Result:\*\* The report can be easily exported and analyzed in other applications.

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## **Data - 65**

### **Project name -**

Online Learning Platform

### **Project description -**

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

### **Feature name -**

Social Learning Features

### **Feature description -**

The platform integrates social learning features such as group projects, peer collaboration tools, and social sharing functionalities to foster community engagement and knowledge exchange. By facilitating interaction, networking, and collaboration among learners, social learning features enrich the learning experience and promote peer-to-peer support and mentorship.

### **Userstory title -**

As a learner, I want social learning features so that I can collaborate with peers and engage in group projects.

### **Acceptance criteria -**

['Learners can create and join groups for projects.', 'Collaboration tools are available for group communication.', 'Learners can share resources and feedback within groups.', 'Instructors can assign group projects and monitor progress.', 'Social sharing features allow learners to share achievements.']

### **Generated Test Cases:**

## ## Test Cases for Online Learning Platform Social Learning Features

**\*\*Test Case 1:\*\*** Verify that learners can create groups for projects

**\*\*Test Case ID:\*\*** GLR1

**\*\*Test Case Description:\*\*** This test case verifies that users can create groups for collaborative projects within the platform.

**\*\*Preconditions:\*\*** User is logged in, Project list page is displayed

**\*\*Test Data:\*\*** Group name, project description

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

- Navigate to the "Groups" section.
- Click "Create Group" button.
- Enter a group name and project description.
- Click "Create Group".

**\*\*Expected Result:\*\*** The group is created and displayed in the "Groups" section.

**\*\*Test Case 2:\*\*** Verify that collaboration tools are available for group communication

**\*\*Test Case ID:\*\*** GLR2

**\*\*Test Case Description:\*\*** This test case ensures the functionality of collaboration tools for group communication.

**\*\*Preconditions:\*\*** User joins an existing group

**\*\*Test Data:\*\*** Group name

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

- Join an existing group.
- Check for the presence of collaboration tools such as chat, video calls, and file sharing options.

**\*\*Expected Result:\*\*** The group has accessible collaboration tools for real-time communication and shared project materials.

**\*\*Test Case 3:\*\*** Verify that learners can share resources and feedback within groups

**\*\*Test Case ID:\*\*** GLR3

**\*\*Test Case Description:\*\*** This test case verifies the ability to share resources and feedback within group discussions.

**\*\*Preconditions:\*\*** User joins a group

**\*\*Test Data:\*\*** Resource file, feedback comments

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

- Upload a resource file to the group discussion.
- Provide feedback on shared resources using the "Comment" function.

**\*\*Expected Result:\*\*** Shared resource files and feedback comments are accessible within the group.

**\*\*Test Case 4:\*\*** Verify that instructors can assign group projects and monitor progress

**\*\*Test Case ID:\*\*** GLR4

**\*\*Test Case Description:\*\*** This test case ensures that instructors can assign group projects and track student progress.

**\*\*Preconditions:\*\*** Instructor account with access to group management features

**\*\*Test Data:\*\*** Project details, student list

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

- Assign a group project to students.
- Track student progress through progress reports.

**\*\*Expected Result:\*\*** Students receive project assignments and instructors can monitor their progress in designated reports.

**\*\*Test Case 5:\*\*** Verify that social sharing features allow learners to share achievements

**\*\*Test Case ID:\*\*** GLR5

**\*\*Test Case Description:\*\*** This test case verifies the functionality of social sharing features for acknowledging learners' achievements.

**\*\*Preconditions:\*\*** User completes a learning activity

**\*\*Test Data:\*\*** Completed learning activity

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

- Complete a designated learning activity.
- Check for social sharing options for acknowledging achievements.

**\*\*Expected Result:\*\*** Social sharing features enable learners to share their accomplishments within the platform and with wider networks.

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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:**

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

**\*\*Test Case ID:\*\*** CLN123

**\*\*Test Case Title:\*\*** Verify that instructors can create multimedia presentations

**\*\*Test Case Description:\*\*** Ensure that instructors can create multimedia presentations including videos, audio, and graphics.

**\*\*Preconditions:\*\*** Instructor is logged in, Course is selected

**\*\*Test Data:\*\*** Multimedia presentation content

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

1. Navigate to the Content Authoring Tool
2. Create a new presentation
3. Add multimedia elements to the presentation
4. Save the presentation

**\*\*Expected Result:\*\*** The system allows instructors to create multimedia presentations successfully.

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

**\*\*Test Case ID:\*\* CLN456**

**\*\*Test Case Title:\*\* Verify that interactive modules can be developed and integrated**

**\*\*Test Case Description:\*\* Ensure that instructors can create interactive modules with quizzes, assessments, and feedback options.**

**\*\*Preconditions:\*\* Instructor is logged in, Course is selected**

**\*\*Test Data:\*\* Interactive module content**

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

1. Navigate to the Content Authoring Tool
2. Create a new interactive module
3. Add quizzes, assessments, and feedback options
4. Save the module

**\*\*Expected Result:\*\* The system allows instructors to create interactive modules.**

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

**\*\*Test Case ID:\*\* CLN789**

**\*\*Test Case Title:\*\* Verify that rich media resources can be supported**

**\*\*Test Case Description:\*\* Ensure that instructors can import and embed rich media resources like videos and animations in their courses.**

**\*\*Preconditions:\*\* Instructor is logged in, Course is selected**

**\*\*Test Data:\*\* Video and animation files**

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

1. Navigate to the Content Authoring Tool
2. Import or embed rich media resources
3. Review the embedded resources



**\*\*Expected Result:\*\*** The system supports the import and embedding of rich media resources.

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

**\*\*Test Case ID:\*\*** CLN012

**\*\*Test Case Title:\*\*** Verify that content authoring tools are user-friendly and intuitive

**\*\*Test Case Description:\*\*** Ensure that the interface of the content authoring tools is straightforward and easy to use for instructors with varying technical skills.

**\*\*Preconditions:\*\*** Instructor is logged in

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

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

1. Explore the content authoring tool interface
2. Create and edit content
3. Review settings and options

**\*\*Expected Result:\*\*** The interface is user-friendly and intuitive for instructors.

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

**\*\*Test Case ID:\*\*** CLN987

**\*\*Test Case Title:\*\*** Verify that instructors can preview and edit content before publishing

**\*\*Test Case Description:\*\*** Ensure that instructors can preview and make changes to their content before publishing it for learners.

**\*\*Preconditions:\*\*** Instructor is logged in, Course is selected

**\*\*Test Data:\*\*** Course content

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

1. Navigate to the Content Authoring Tool
2. Create or edit course content
3. Preview and edit content
4. Publish the course

**\*\*Expected Result:\*\*** The system allows instructors to preview and edit content before publishing.

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**Data - 67**

**Project name -**

Online Learning Platform

**Project description -**

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

**Feature name -**

Learning Paths and Curriculum

**Feature description -**

The platform offers structured learning paths and curricula to guide learners through sequential courses, modules, and topics aligned with specific learning objectives. By providing clear pathways and learning trajectories, the platform streamlines the learning process, facilitates skill development, and ensures coherence and continuity in learners' educational journeys.

**Userstory title -**

As a learner, I want structured learning paths and curricula so that I can achieve my learning objectives in a systematic manner.

**Acceptance criteria -**

['Learning paths include sequential courses and modules.', 'Curricula are aligned with specific learning

objectives.', 'Learners can track their progress within a learning path.', 'Instructors can customize learning paths for different needs.', 'Notifications are sent for upcoming courses or milestones.']

## **Generated Test Cases:**

### **## Test Cases for Online Learning Platform's Learning Paths and Curricula**

**\*\*1. Verify that learning paths include sequential courses and modules\*\***

**\*\*Test Case ID:\*\* LN123**

**\*\*Test Case Description:\*\*** This test case verifies the inclusion of sequential courses and modules within the learning paths.

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

**\*\*Test Data:\*\*** Specific learning path.

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

- Navigate to the learning paths section.
- Select a learning path.
- Verify that the path includes a sequence of courses and modules.

**\*\*Expected Result:\*\*** The system displays a learning path with sequentially arranged courses and modules.

**\*\*2. Verify that curricula are aligned with specific learning objectives\*\***

**\*\*Test Case ID:\*\* LN456**

**\*\*Test Case Description:\*\*** This test case verifies that the curated curricula are aligned with specific learning objectives.

**\*\*Preconditions:\*\*** User has accessed the curricula section.

**\*\*Test Data:\*\*** Specific learning objective.

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

- Select a curriculum.
- Review the list of courses and modules.
- Verify that the courses and modules are aligned with the selected learning objective.

**\*\*Expected Result:\*\*** The curriculum clearly aligns with the chosen learning objective.

**\*\*3. Verify that learners can track their progress within a learning path\*\***

**\*\*Test Case ID:\*\*** LN789

**\*\*Test Case Description:\*\*** This test case ensures the implementation of progress tracking functionality within learning paths.

**\*\*Preconditions:\*\*** User has enrolled in a learning path.

**\*\*Test Data:\*\*** Specific learning path.

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

- Navigate through the learning path.
- Monitor the progress tracker on the dashboard.
- Verify that the tracker shows completed courses and modules.

**\*\*Expected Result:\*\*** The progress tracker accurately reflects the learner's progression through the learning path.

**\*\*4. Verify that instructors can customize learning paths for different needs\*\***

**\*\*Test Case ID:\*\*** LN101

**\*\*Test Case Description:\*\*** This test case verifies the instructor's ability to personalize learning paths.

**\*\*Preconditions:\*\*** User has administrative access and access to learning path management tools.

**\*\*Test Data:\*\*** Specific course or module.

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

- Access the learning path management section.
- Select an existing learning path.
- Modify the course sequence or add/remove modules.
- Save the changes.

**\*\*Expected Result:\*\*** The system allows instructors to customize the learning path according to their needs.

**\*\*5. Verify that learners receive notifications for upcoming courses or milestones\*\***

**\*\*Test Case ID:\*\*** LN234

**\*\*Test Case Description:\*\*** This test case ensures the timely delivery of notifications regarding upcoming courses/milestones.

**\*\*Preconditions:\*\*** User has subscribed to receive notifications.

**\*\*Test Data:\*\*** Specific course/milestone.

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

- Set preferences for notification delivery.
- Advance the date of an upcoming course or reach a learning path milestone.
- Verify that a notification is received on time.

**\*\*Expected Result:\*\*** The system delivers notifications for upcoming courses or achieved milestones to the learners.

-----

**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

- **\*\*Description:\*\*** Tests automatic capture of learner presence in live sessions through various teaching methods like video lectures, webinars, and interactive discussions.
- **\*\*Preconditions:\*\*** Instructor account is logged in, live session is scheduled.
- **\*\*Test steps:\*\*** Join a live session as an instructor, observe attendance counter increase for participants.

- **Expected result:** Attendance data is automatically recorded and updated during the session.

**Test Case 2:** Verify that instructors can view attendance reports for each session

- **Description:** Confirms accessibility and functionality of downloadable attendance reports for instructors.
- **Preconditions:** Instructor account is logged in, attendance data is recorded.
- **Test steps:** Navigate to attendance reports section, select desired session, download the report.
- **Expected result:** Downloadable report lists participants and their attendance status for the selected session.

**Test Case 3:** Verify that learners can see their attendance records

- **Description:** Tests visibility of individual learner attendance history on their accounts.
- **Preconditions:** Learner account is logged in, attendance data is recorded.
- **Test steps:** Access profile settings, navigate to attendance section, review attendance records.
- **Expected result:** Learner can view a list of attended sessions and their timestamps.

**Test Case 4:** Verify that attendance data is integrated with participation metrics

- **Description:** Confirms that attendance data is combined with participation metrics like quiz scores and forum engagement.
- **Preconditions:** Attendance data is recorded, participation metrics are available.
- **Test steps:** Review student reports, identifying correlation between attendance and participation scores.

- **Expected result:** Data shows clear correlation between attendance and overall participation in the course.

**Test Case 5:** Verify that notifications are sent for missed sessions

- **Description:** Tests automatic notification system reminding learners of missed sessions.

- **Preconditions:** Learner account is logged in, attendance data is recorded.

- **Test steps:** Attend a session, miss a subsequent session, monitor notification settings.

- **Expected result:** Learner receives notification reminding them of the missed session.

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**Data - 69**

**Project name -**

Online Learning Platform

**Project description -**

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

**Feature name -**

Content Licensing and Rights Management

**Feature description -**

The platform implements robust content licensing and rights management features to protect intellectual property and ensure compliance with copyright laws. By managing content licenses, usage rights, and permissions, the platform safeguards the interests of content creators and providers, enabling secure and lawful distribution of educational materials.



### **Userstory title -**

As a content creator, I want content licensing and rights management so that my intellectual property is protected and used legally.

### **Acceptance criteria -**

['Content licenses are assigned to each resource.', 'Usage rights and permissions are clearly defined.', 'Content creators can set restrictions on usage and distribution.', 'Instructors and learners are informed of content licensing terms.', 'Notifications are sent for license expiration or renewal.']

### **Generated Test Cases:**

#### **## Online Learning Platform - Content Licensing and Rights Management Test Cases**

**\*\*1. Verify that content licenses are assigned to each resource\*\***

- **\*\*Test Case ID:\*\*** OLPL-CR-01

- **\*\*Test Case Description:\*\*** This test case checks if content creators can assign appropriate licenses to uploaded resources.

- **\*\*Preconditions:\*\*** Content creator account is logged in, resource is uploaded.

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

- Upload a resource.

- Select a valid license from the dropdown list.

- Verify that the assigned license is displayed alongside the resource.

- **\*\*Expected Result:\*\*** The chosen license is associated with the uploaded resource.

**\*\*2. Verify that usage rights and permissions are clearly defined\*\***

- **\*\*Test Case ID:\*\*** OLPL-CR-02

- **Test Case Description:** This test case verifies that the platform clearly defines usage rights and permissions for different stakeholders.
- **Preconditions:** Content creator account is logged in, resource is uploaded.
- **Test Steps:**
  - Upload a resource.
  - Review the access controls and permissions for instructors, learners, and other platform users.
- **Expected Result:** Permission levels are clearly defined and restrict access to authorized users only.

### **3. Verify the setting of restrictions on usage and distribution**

- **Test Case ID:** OLPL-CR-03
- **Test Case Description:** This test case checks if content creators can set restrictions on how resources can be used and distributed.
- **Preconditions:** Content creator account is logged in, resource is uploaded.
- **Test Steps:**
  - Upload a resource.
  - Select restrictions for download, printing, or sharing.
  - Verify that the selected restrictions are saved and applied.
- **Expected Result:** The platform applies the designated restrictions to the uploaded resource.

### **4. Verify that instructors and learners are informed of content licensing terms**

- **Test Case ID:** OLPL-CR-04
- **Test Case Description:** This test case verifies that the platform communicates licensing terms to instructors and learners using the platform.

- **Preconditions:** User is logged in as an instructor or learner.
- **Test Steps:**
  - Access resources with assigned licenses.
  - Review the displayed licensing terms and conditions.
- **Expected Result:** The platform clearly displays the relevant licensing terms for uploaded resources.

**5. Verify that notifications are sent for license expiration or renewal**

- **Test Case ID:** OLPL-CR-05
- **Test Case Description:** This test case checks if the platform sends notifications for license expiration or renewal.
- **Preconditions:** Content creator account is logged in, resource is uploaded with an expiration date.
- **Test Steps:**
  - Upload a resource with an expiration date.
  - Approach the expiration date.
  - Monitor for system-generated notifications regarding license renewal.
- **Expected Result:** The platform sends timely notifications for license expiration or renewal prior to the set date.

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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

**\*\*1. Verify that instructors can create and save multiple versions of content.\*\***

**\* \*\*Test Description:\*\*** This test case verifies the functionality of creating and saving multiple versions of course materials by an instructor.

**\* \*\*Preconditions:\*\*** Instructor account created, course created.

**\* \*\*Test Data:\*\*** Course name, content sections with updated versions.

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

- Navigate to course editing page.
- Create new version of existing content.
- Verify version number increments.
- Save changes.

\* \*\*Expected Result:\*\* The new version of content is saved with a unique version number.

**\*\*2. Verify that the version history is maintained and accessible.\*\***

\* \*\*Test Description:\*\* This test case verifies the tracking and accessibility of previous versions of uploaded content.

\* \*\*Preconditions:\*\* Multiple versions of content created.

\* \*\*Test Data:\*\* Course name, selected versions.

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

- Access version history page.
- Verify the presence of previously created versions.
- Select a specific version.

\* \*\*Expected Result:\*\* The system displays a detailed history of all changes made to the content.

**\*\*3. Verify that instructors can compare different versions of content.\*\***

\* \*\*Test Description:\*\* This test case verifies the ability to compare different versions of content side-by-side for visual comparison.

\* \*\*Preconditions:\*\* Multiple versions of content created.

\* \*\*Test Data:\*\* Selected content versions.

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

- Access version comparison page.
- Select two different versions of the content.
- Review changes made in each version.

\* \*\*Expected Result:\*\* The system allows side-by-side comparison of content versions.

\*\*4. Verify that previous versions can be restored if needed.\*\*

\* \*\*Test Description:\*\* This test case verifies the functionality of restoring previous versions of uploaded content.

\* \*\*Preconditions:\*\* Multiple versions of content created.

\* \*\*Test Data:\*\* Selected content version.

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

- Access version history page.
- Select a previous version of the content.
- Click on the "Restore" button.

\* \*\*Expected Result:\*\* The content is restored to the selected previous version.

\*\*5. Verify that notifications are sent for significant content updates.\*\*

\* \*\*Test Description:\*\* This test case verifies that notifications are sent to instructors when significant changes are made to their content.

\* \*\*Preconditions:\*\* Instructor account configured for notifications.

\* \*\*Test Data:\*\* Updated content with significant changes.

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

- Update content significantly.

- Verify email notification is received.

\* \*\*Expected Result:\*\* The system sends an email notification to the instructor regarding the content update.

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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:**

## ## Online Learning Platform - API Integration Test Cases

**\*\*1. Verify that API documentation is accessible:\*\***

\* Test Case ID: OL-API-1

\* Test Case Description: Checks if API documentation is available and accessible through the platform.

\* Preconditions: User is logged in, Browses to API documentation page.

\* Test Data: NA

\* Test Steps:

- Navigate to the API documentation page.
- Validate if documentation is accessible and contains relevant information.

\* Expected Result: Documentation is available, clearly organized, and provides necessary details.

**\*\*2. Verify secure access protocols for API access:\*\***

\* Test Case ID: OL-API-2

\* Test Case Description: Tests if proper authentication and authorization mechanisms are implemented for API access.

\* Preconditions: User has API credentials.

\* Test Data: Valid API credentials

\* Test Steps:

- Input valid API credentials.
- Verify that access is granted to authorized users only.

\* Expected Result: The system verifies user credentials and grants access to authorized users.



**\*\*3. Verify API rate limiting and monitoring:\*\***

\* Test Case ID: OL-API-3

\* Test Case Description: Checks if the platform limits API requests to prevent overloads and monitors API performance.

\* Preconditions: API is being used by multiple users.

\* Test Data: High volume of API requests

\* Test Steps:

- Send a high volume of API requests concurrently.
- Monitor API response time and throughput.

\* Expected Result: The system throttles requests, maintains performance, and alerts administrators in case of abnormal usage.

**\*\*4. Verify third-party application integration with APIs:\*\***

\* Test Case ID: OL-API-4

\* Test Case Description: Checks if external applications can seamlessly integrate with the platform via APIs.

\* Preconditions: Third-party application is available with API access.

\* Test Data: Details of the third-party application and its API integration point.

\* Test Steps:

- Integrate the third-party application with the platform.
- Test data exchange and functionality.

\* Expected Result: The platform enables secure and stable integration with third-party applications.

**\*\*5. Verify that API testing tools are available:\*\***

- \* Test Case ID: OL-API-5
  - \* Test Case Description: Checks if the platform offers tools for automated API testing and monitoring.
  - \* Preconditions: User has access to API testing platform.
  - \* Test Data: Name of API testing platform
  - \* Test Steps:
    - Access the API testing platform.
    - Verify that tools for automated API testing and monitoring are available.
  - \* Expected Result: The platform provides accessible and comprehensive API testing tools.
- 

## **Data - 72**

### **Project name -**

Online Learning Platform

### **Project description -**

Develop an online learning platform that offers courses, lectures, tutorials, and quizzes on various subjects and topics. The platform should provide interactive features like video lectures, downloadable resources, discussion forums, progress tracking, and certifications upon course completion.

### **Feature name -**

Data Analytics and Insights

### **Feature description -**

The platform provides data analytics and insights features, enabling instructors and administrators to analyze learner performance, engagement, and outcomes. By leveraging data visualization tools and reporting features, the platform helps stakeholders make informed decisions to enhance the learning experience.

### **Userstory title -**

As an administrator, I want data analytics and insights so that I can analyze learner performance and improve

the platform's effectiveness.

### **Acceptance criteria -**

['Data visualization tools are available for analysis.', 'Reports can be generated for learner performance metrics.', 'Real-time analytics provide insights into engagement and outcomes.', 'Data can be exported for further analysis.', 'Notifications are sent for significant data trends or anomalies.']

### **Generated Test Cases:**

#### **## Test Cases for Online Learning Platform's Data Analytics and Insights Feature**

**\*\*Test Case 1:\*\*** Verify that data visualization tools are available for analysis

**\*\*Test Case ID:\*\*** OL-DA-001

**\*\*Test Case Title:\*\*** Verify that data visualization tools are available for analysis

**\*\*Test Case Description:\*\*** This test case verifies that the platform offers various data visualization tools to analyze learner performance and engagement data.

**\*\*Preconditions:\*\*** User is logged in as an administrator

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

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

- Navigate to the Data Analytics dashboard
- Verify presence of different data visualization charts and graphs
- Test that data points can be easily selected and analyzed

**\*\*Expected Result:\*\*** Data visualization tools are accessible and allow for data analysis of learner performance and engagement.

**\*\*Test Case 2:\*\*** Verify that reports can be generated for learner performance metrics

**\*\*Test Case ID:\*\* OL-DA-002**

**\*\*Test Case Title:\*\* Verify that reports can be generated for learner performance metrics**

**\*\*Test Case Description:\*\* This test case ensures that the platform allows generating reports containing key learner performance metrics.**

**\*\*Preconditions:\*\* User is logged in as an administrator**

**\*\*Test Data:\*\* Specific learner performance metrics (e.g., average score, completion rate)**

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

- Generate a report on learner performance metrics
- Verify that the report includes relevant data for the selected metrics
- Test that the data is accurate and consistent

**\*\*Expected Result:\*\* The platform generates a comprehensive report with detailed learner performance metrics.**

**\*\*Test Case 3:\*\* Verify that real-time analytics provide insights into engagement and outcomes**

**\*\*Test Case ID:\*\* OL-DA-003**

**\*\*Test Case Title:\*\* Verify that real-time analytics provide insights into engagement and outcomes**

**\*\*Test Case Description:\*\* This test case ensures that the platform offers real-time analytics to track learner engagement and outcomes in real-time.**

**\*\*Preconditions:\*\* User is logged in as an administrator**

**\*\*Test Data:\*\* Learning materials with different engagement levels**

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

- Create a learning session with various engagement elements
- Monitor the real-time analytics dashboard
- Verify that insights are provided on learner engagement and comprehension

**\*\*Expected Result:\*\* Real-time analytics offer valuable insights into learner engagement and outcomes.**

**\*\*Test Case 4:\*\*** Verify that data can be exported for further analysis

**\*\*Test Case ID:\*\*** OL-DA-004

**\*\*Test Case Title:\*\*** Verify that data can be exported for further analysis

**\*\*Test Case Description:\*\*** This test case ensures that the platform allows exporting data for further analysis in external tools.

**\*\*Preconditions:\*\*** User is logged in as an administrator

**\*\*Test Data:\*\*** Exportable data files (e.g., CSV, JSON)

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

- Export learner performance data to a desired format
- Verify that the exported data is accurate and complete
- Import the data into external analytics tools

**\*\*Expected Result:\*\*** The platform successfully exports the data for further analysis.

**\*\*Test Case 5:\*\*** Verify that notifications are sent for significant data trends or anomalies

**\*\*Test Case ID:\*\*** OL-DA-005

**\*\*Test Case Title:\*\*** Verify that notifications are sent for significant data trends or anomalies

**\*\*Test Case Description:\*\*** This test case ensures that the platform sends notifications when significant data trends or anomalies are detected.

**\*\*Preconditions:\*\*** User is logged in as an administrator

**\*\*Test Data:\*\*** Data sets with defined anomalies or trends

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

- Create a learning session with defined anomalies

- Monitor data analytics and tracking

- Verify that notifications are generated for significant data trends or anomalies

**\*\*Expected Result:\*\*** The platform sends timely notifications for relevant 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

**\*\*1. Verify that administrators can create and assign user roles\*\***

- **\*\*Test Case ID:\*\*** ROL-1
- **\*\*Test Case Description:\*\*** This test case ensures that administrators can create custom user roles with specific permissions and efficiently assign them to users.
- **\*\*Preconditions:\*\*** Administrator account logged in, Role creation feature available.
- **\*\*Test Steps:\*\*** 1. Navigate to user management section. 2. Click "Create Role". 3. Define role name and permissions. 4. Assign role to desired user.
- **\*\*Expected Result:\*\*** The system allows creating and assigning roles successfully.

**\*\*2. Verify that permissions are customizable for each role\*\***

- **\*\*Test Case ID:\*\*** ROL-2
- **\*\*Test Case Description:\*\*** This test case validates that permissions can be tailored to match different roles, ensuring relevant access for each user group.
- **\*\*Preconditions:\*\*** Existing user role selected.
- **\*\*Test Steps:\*\*** 1. Click on "Permissions" tab for the selected role. 2. Modify permissions for different functionalities. 3. Review assigned permissions.
- **\*\*Expected Result:\*\*** Permission settings can be customized and saved successfully.

**\*\*3. Verify that users are restricted to functionalities based on their roles\*\***

- **Test Case ID:** ROL-3
- **Test Case Description:** This test case ensures that users only access functionalities permitted by their assigned roles.
- **Preconditions:** User account with specific role assigned.
- **Test Steps:** 1. Access sections or features. 2. Observe accessibility based on assigned permissions.
- **Expected Result:** Access is granted only to permitted functionalities.

**4. Verify that changes to roles and permissions are logged**

- **Test Case ID:** ROL-4
- **Test Case Description:** This test case checks that changes made to user roles and permissions are accurately logged for accountability.
- **Preconditions:** Existing user role modified.
- **Test Steps:** 1. Modify user role permissions. 2. Review the change log.
- **Expected Result:** The system logs details of role modifications.

**5. Verify that users are notified of their assigned roles and permissions**

- **Test Case ID:** ROL-5
- **Test Case Description:** This test case confirms that users receive notification regarding their assigned roles and their associated permissions.
- **Preconditions:** User account created.
- **Test Steps:** 1. Assign a role to the user. 2. Check user notifications.
- **Expected Result:** The user receives a notification highlighting their assigned role and its 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:**

## Test Cases for Online Learning Platform's User Feedback and Rating System

\*\*1. Verify that learners can rate courses and instructors on a scale\*\*

- **Test Case ID:** FLh4rt
- **Test Case Description:** Tests the functionality of the rating system for courses and instructors, ensuring users can assign scores between 1-5.
- **Preconditions:** User is logged in, course or instructor page is open.
- **Test Steps:**
  - Navigate to course or instructor page.
  - Locate the rating scale.
  - Select different scores from 1-5.
- **Expected Result:** Rating is saved and displayed alongside the course/instructor name.

**2. Verify that feedback forms are available for detailed comments**

- **Test Case ID:** Fhn56y
- **Test Case Description:** Ensures that detailed comments can be added to feedback forms.
- **Preconditions:** User has accessed the feedback section for a course or instructor.
- **Test Steps:**
  - Click on "Provide Feedback" button.
  - Option to enter detailed comments appears.
- **Expected Result:** Feedback text is saved and stored with the user's rating.

**3. Verify that instructors can view and respond to feedback**

- **Test Case ID:** Fp678u
- **Test Case Description:** Tests if instructors can access and respond to student feedback.

- **\*\*Preconditions:\*\*** User is logged in as an instructor.
- **\*\*Test Steps:\*\***
  - Navigate to the instructor dashboard.
  - Locate the "Feedback" section.
  - Select feedback associated with their courses.
  - Respond to feedback.
- **\*\*Expected Result:\*\*** Instructor receives notification and is able to respond to student feedback.

**\*\*4. Verify that aggregated ratings are displayed publicly\*\***

- **\*\*Test Case ID:\*\*** Fhd89y
- **\*\*Test Case Description:\*\*** Tests the display of aggregated ratings for courses and instructors.
- **\*\*Preconditions:\*\*** User is on the course or instructor listings.
- **\*\*Test Steps:\*\***
  - Look for the average rating and number of votes displayed.
- **\*\*Expected Result:\*\*** Aggregated ratings are accurately calculated and displayed alongside each course/instructor.

**\*\*5. Verify that anonymous feedback options are available\*\***

- **\*\*Test Case ID:\*\*** Fp345z
- **\*\*Test Case Description:\*\*** Tests the functionality of submitting feedback anonymously.
- **\*\*Preconditions:\*\*** User is on the feedback page for a course or instructor.
- **\*\*Test Steps:\*\***
  - Click on the "Submit Feedback Anonymously" button.

- Enter feedback without logging in.
- **\*\*Expected Result:\*\*** Feedback is submitted anonymously and not connected to the user's account.

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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:**

## ## Test Cases for Online Learning Platform - Social Media Integration

**\*\*1. Verify that learners can successfully connect their social media accounts to the platform.\*\***

**\* \*\*Test Case ID:\*\* ABC123**

**\* \*\*Test Case Description:\*\*** This test case verifies the functionality of the social media login process, ensuring users can seamlessly connect their accounts to the platform and leverage the associated features.

**\* \*\*Preconditions:\*\*** User is logged in, Social media accounts are accessible.

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

- Navigate to the social media integration settings.
- Enter login credentials for a valid social media account.
- Verify successful connection and authorization.

**\* \*\*Expected Result:\*\*** The user's social media account is successfully connected to the platform.

**\*\*2. Verify that achievements and course completions can be shared on social media.\*\***

**\* \*\*Test Case ID:\*\* XYZ456**

**\* \*\*Test Case Description:\*\*** This test case ensures that the system allows users to share their achievements and course completions on their connected social media accounts.

**\* \*\*Preconditions:\*\*** User has connected their social media account and completed a course.

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

- Complete a course or achieve an accomplishment.
- Navigate to the social media integration settings.
- Select the option to share the achievement on social media.
- Verify that the achievement is shared on the user's social media profile.

**\* \*\*Expected Result:\*\*** The user's achievement or course completion is successfully shared on their connected

social media platform.

**\*\*3. Verify that privacy settings control the visibility of shared content.\*\***

**\* \*\*Test Case ID:\*\* KLM789**

**\* \*\*Test Case Description:\*\*** This test case checks the functionality and effectiveness of the privacy settings related to shared content.

**\* \*\*Preconditions:\*\*** User has shared an achievement on social media.

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

- Access privacy settings.
- Adjust privacy preferences for shared content.
- Share additional achievements with different groups.

**\* \*\*Expected Result:\*\*** The visibility of shared content can be controlled as per user preferences.

**\*\*4. Verify that instructors can promote courses and updates through social media.\*\***

**\* \*\*Test Case ID:\*\*** IJK012

**\* \*\*Test Case Description:\*\*** This test case confirms that instructors can utilize social media integration to promote their courses and updates on their social media platforms.

**\* \*\*Preconditions:\*\*** User is an instructor.

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

- Access the instructor dashboard.
- Select the "Social Media Promotion" option.
- Create and schedule promotional updates for social media.

**\* \*\*Expected Result:\*\*** The instructor can effectively share course updates and promotional materials through

social media channels.

**\*\*5. Verify that analytics track the reach and engagement of shared content.\*\***

**\* \*\*Test Case ID:\*\* LMN987**

**\* \*\*Test Case Description:\*\*** This test case checks the functionality of the analytics feature related to shared content, specifically tracking reach and engagement.

**\* \*\*Preconditions:\*\*** Shared content has been published.

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

- Access the analytics dashboard for social media sharing.
- Review metrics for reach, engagement, and impressions.

**\* \*\*Expected Result:\*\*** The platform provides data on the reach and engagement of shared content on social media.

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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 distance data is accurately recorded\*\***

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

**\* \*\*Test Case Title:\*\* Verify that distance data is accurately recorded**

**\* \*\*Test Case Description:\*\*** This test case verifies that the app properly records distance data while tracking different activities like running, walking, cycling, and swimming.

**\* \*\*Test Data:\*\*** Various activities with different distances

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

1. Launch the app and select an activity.
2. Begin tracking the activity while tracking distance.
3. Verify the distance data is accurately recorded in the app.

**\* \*\*Expected Result:\*\*** The app records distance data accurately for the selected activity.



**\*\*Test Case 2: Verify that pace data is recorded and displayed\*\***

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

**\* \*\*Test Case Title:\*\* Verify that pace data is recorded and displayed**

**\* \*\*Test Case Description:\*\*** This test case verifies the app's ability to capture and display pace data during various activities.

**\* \*\*Test Data:\*\*** Running activity with different paces

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

1. Launch the app and select running as the activity.
2. Begin tracking the activity while tracking pace.
3. Verify the pace data is correctly recorded and displayed in real-time.

**\* \*\*Expected Result:\*\*** The app records and displays pace data in real-time during the activity.

**\*\*Test Case 3: Verify that calorie burn data is calculated and displayed\*\***

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

**\* \*\*Test Case Title:\*\*** Verify that calorie burn data is calculated and displayed

**\* \*\*Test Case Description:\*\*** This test case checks the app's functionality to calculate and display calorie burn data during activities.

**\* \*\*Test Data:\*\*** Various activities with different durations

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

1. Launch the app and start tracking a chosen activity.
2. Monitor the calorie burn calculation and display.
3. Verify the accuracy of the calorie burn data.

**\* \*\*Expected Result:\*\*** The app accurately calculates and displays calorie burn data during the activity.

**\*\*Test Case 4: Verify data persistence and historical analysis\*\***

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

\* \*\*Test Case Title:\*\* Verify data persistence and historical analysis

\* \*\*Test Case Description:\*\* This test case ensures that activity data is saved and allows for historical analysis.

\* \*\*Test Data:\*\* Historical activity data

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

1. Track various activities over time.
2. Review historical activity data in the app.
3. Analyze historical trends and progress.

\* \*\*Expected Result:\*\* The app persists activity data and allows for historical analysis of past performances.

**\*\*Test Case 5: Verify notification settings for milestones\*\***

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

\* \*\*Test Case Title:\*\* Verify notification settings for milestones

\* \*\*Test Case Description:\*\* This test case verifies the functionality to configure notifications for achieving specific milestones during activities.

\* \*\*Test Data:\*\* Activity duration and notification threshold

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

1. Open the notification settings for the app.
2. Configure notifications for achieving milestones during activities.
3. Engage in an activity and monitor notifications.

\* \*\*Expected Result:\*\* The app sends notifications when milestones are achieved during tracked activities.

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## **Data - 77**

### **Project name -**

Fitness Tracker App

### **Project description -**

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

### **Feature name -**

GPS Tracking

### **Feature description -**

Integrated GPS tracking allows users to accurately track outdoor activities and routes, providing detailed maps, elevation profiles, and location-based metrics. Users can visualize their workout routes, analyze performance data, and explore new routes for added variety and challenge.

### **Userstory title -**

As a user, I want to use GPS tracking so that I can accurately track my outdoor activities and routes.

### **Acceptance criteria -**

['GPS tracking accurately records route data.', 'Users can view detailed maps and elevation profiles.', 'Performance data includes location-based metrics.', 'Routes can be saved and revisited.', 'Notifications are provided for deviations from planned routes.']

### **Generated Test Cases:**

## Fitness Tracker App - GPS Tracking Test Cases

**\*\*Test Case 1:\*\*** Verify that GPS tracking accurately records route data

**\*\*Test Case ID:\*\*** FT-GPS-01

**\*\*Test Case Description:\*\*** This test case verifies that the app accurately tracks outdoor routes using GPS technology, capturing location data points at regular intervals.

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

1. Open the app and enable GPS tracking.
2. Perform a short outdoor walk or run.
3. Review the tracked route on the map interface.
4. Verify that the route follows the actual path taken.

**\*\*Expected Result:\*\*** The app records and displays the route accurately.

**\*\*Test Case 2:\*\*** Verify that users can view detailed maps and elevation profiles

**\*\*Test Case ID:\*\*** FT-GPS-02

**\*\*Test Case Description:\*\*** This test case verifies that the app displays detailed maps and elevation profiles of tracked routes.

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

1. Enable GPS tracking and perform an outdoor activity.
2. Access the route map and elevation profile.
3. Check for clear visualization of the tracked route and elevation changes.

**\*\*Expected Result:\*\*** The app displays accurate maps and elevation profiles of the tracked route.

**\*\*Test Case 3:\*\*** Verify performance data includes location-based metrics

**\*\*Test Case ID:\*\*** FT-GPS-03

**\*\*Test Case Description:\*\*** This test case verifies that the app tracks and displays various location-based

metrics such as steps taken, calories burned, distance traveled, and heart rate.

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

1. Enable GPS tracking during an outdoor activity.
2. Review the performance data summary.
3. Verify the inclusion of location-based metrics.

**\*\*Expected Result:\*\*** The app provides detailed location-based performance data during outdoor activities.

**\*\*Test Case 4:\*\*** Verify that routes can be saved and revisited

**\*\*Test Case ID:\*\*** FT-GPS-04

**\*\*Test Case Description:\*\*** This test case verifies that users can save and revisit previously tracked routes within the app.

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

1. Perform an outdoor activity and track the route.
2. Save the route to the app.
3. Access the saved routes section and locate the saved route.

**\*\*Expected Result:\*\*** The app allows users to save and revisit tracked routes easily.

**\*\*Test Case 5:\*\*** Verify that notifications are provided for deviations from planned routes

**\*\*Test Case ID:\*\*** FT-GPS-05

**\*\*Test Case Description:\*\*** This test case verifies that the app sends notifications when the user deviates from their planned route during an outdoor activity.

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

1. Plan a route and enable route tracking.
2. Deliberately deviate from the planned route during the activity.
3. Monitor notifications received during the activity.

**\*\*Expected Result:\*\*** The app provides timely notifications of route deviations.

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**Data - 78**

**Project name -**

Fitness Tracker App

**Project description -**

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

**Feature name -**

Heart Rate Monitoring

**Feature description -**

The app monitors heart rate in real-time using built-in sensors or compatible wearable devices, providing insights into exercise intensity, recovery, and cardiovascular health. Heart rate data helps users optimize their workouts, maintain target heart rate zones, and track improvements in fitness over time.

**Userstory title -**

As a user, I want to monitor my heart rate so that I can optimize my workouts and track my cardiovascular health.

**Acceptance criteria -**

['Heart rate data is recorded in real-time.', 'Users can set and monitor target heart rate zones.', 'Historical heart rate data is stored and viewable.', 'Alerts are provided for abnormal heart rate readings.', 'Data is compatible with various wearable devices.']

**Generated Test Cases:**

## ## Test Cases for Fitness Tracker App - Heart Rate Monitoring

**\*\*1. Verify that heart rate data is recorded in real-time.\*\***

**\*\*Test Case ID:\*\* FHSR5**

**\*\*Test Case Description:\*\*** This test case verifies that the app accurately records heart rate values in real-time from the built-in sensor or compatible wearable devices.

**\*\*Test Data:\*\*** Various wearable devices, different signal strengths

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

- Launch the app
- Enable heart rate monitoring
- Perform physical exercise with wearable device
- Monitor heart rate data in real-time on the app

**\*\*Expected Result:\*\*** Heart rate data is displayed and updated in real-time on the app.

**\*\*2. Verify users can set and monitor target heart rate zones.\*\***

**\*\*Test Case ID:\*\* FHSR6**

**\*\*Test Case Description:\*\*** This test case verifies that users can set and monitor target heart rate zones within the app and receive notifications when their heart rate falls outside those zones.

**\*\*Test Data:\*\*** Desired target heart rate range

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

- Access the heart rate monitoring settings
- Set desired target heart rate range
- Engage in physical exercise
- Monitor heart rate and receive alerts if outside target range

**\*\*Expected Result:\*\*** The app allows setting target heart rate zones and provides alerts when these boundaries are exceeded or fallen below.

**\*\*3. Verify historical heart rate data is stored and viewable.\*\***

**\*\*Test Case ID:\*\*** FHSR7

**\*\*Test Case Description:\*\*** This test case verifies that the app stores historical heart rate data and allows users to review it in a user-friendly format.

**\*\*Test Data:\*\*** Previous workout data

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

- Complete a workout
- Access the heart rate history section
- Review recorded heart rate data

**\*\*Expected Result:\*\*** The app displays historical heart rate data in a clear and accessible format.

**\*\*4. Verify alerts are provided for abnormal heart rate readings.\*\***

**\*\*Test Case ID:\*\*** FHSR8

**\*\*Test Case Description:\*\*** This test case verifies that the app sends alerts when heart rate readings deviate significantly from the normal range.

**\*\*Test Data:\*\*** Extreme heart rate values

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

- Configure heart rate alert settings
- Simulate elevated or decreased heart rate during exercise
- Monitor the app and observe alert notifications



**\*\*Expected Result:\*\*** The app triggers alerts for abnormal heart rate readings.

**\*\*5. Verify data is compatible with various wearable devices.\*\***

**\*\*Test Case ID:\*\*** FHSR9

**\*\*Test Case Description:\*\*** This test case verifies that the app seamlessly integrates with different wearable devices and transmits heart rate data accurately.

**\*\*Test Data:\*\*** Various wearable devices with different Bluetooth versions

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

- Connect different wearable devices to the app
- Verify data synchronization and accuracy

**\*\*Expected Result:\*\*** The app successfully connects with various wearable devices and transmits heart rate data accurately.

**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:\*\* FT-1**

**\* \*\*Test Case Description:\*\*** This test case verifies that users can successfully enter multiple food items with associated calorie values into the app.

**\* \*\*Preconditions:\*\*** User is logged in, Application is launched.

**\* \*\*Test Data:\*\*** Various food items with known calorie values.

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

- Navigate to the calorie tracking section.
- Enter details of different food items.
- Verify that calories for each item are logged.

**\* \*\*Expected Result:\*\*** Food items and their calories are successfully saved to the app.

**\*\*2. Verify that the app calculates and displays total calories consumed and burned.\*\***

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

**\* \*\*Test Case Description:\*\*** This test case verifies that the app accurately calculates the total calories consumed and burned based on logged food intake and physical activities.

**\* \*\*Preconditions:\*\*** User has logged food intake and activity data.

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

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

- Review the total calorie consumption and expenditure displayed in the app.
- Compare the calculated values to manually calculated figures or external sources.

**\* \*\*Expected Result:\*\*** The app displays accurate total calorie consumption and expenditure.

**\*\*3. Verify that users can set daily calorie goals and track progress.\*\***

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

**\* \*\*Test Case Description:\*\*** This test case verifies that users can set daily calorie goals and track their progress towards those goals.

**\* \*\*Preconditions:\*\*** User has logged food intake data.

**\* \*\*Test Data:\*\*** Specific calorie goal.

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

- Set a daily calorie goal in the app.
- Monitor and track calories consumed throughout the day.

**\* \*\*Expected Result:\*\*** The app tracks calorie intake and displays progress towards the set goal.

**\*\*4. Verify that food items and calorie information are searchable in the database.\*\***

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

**\* \*\*Test Case Description:\*\*** This test case verifies that users can easily search and locate specific food items and their calorie information within the database.

**\* \*\*Preconditions:\*\*** User has previously logged food items.

**\* \*\*Test Data:\*\*** Specific food item names.

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

- Search for specific food items in the app's search bar.
- Verify that the correct items and their calorie values are displayed.

**\* \*\*Expected Result:\*\*** The app provides efficient search results and displays relevant food item information.

**\*\*5. Verify that users receive alerts for exceeding calorie goals.\*\***

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

**\* \*\*Test Case Description:\*\*** This test case verifies that users receive timely notifications when they approach or exceed their set calorie goals.

**\* \*\*Preconditions:\*\*** User has set a daily calorie goal.

**\* \*\*Test Data:\*\*** Threshold for calorie goal adherence.

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

- Approach or exceed the set calorie goal.
- Monitor for receiving notification alerts.

**\* \*\*Expected Result:\*\*** The app sends timely notifications when calorie goals are approached or exceeded.

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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 -**

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

**\*\*1. Verify that sleep data is recorded including duration and quality\*\***

**\*\*Test Case ID:\*\* FT-Sleep-01**

**\*\*Test Case Description:\*\*** This test case verifies that the app accurately records the duration and quality of sleep, as measured by the accelerometer and heart rate sensors.

**\*\*Preconditions:\*\*** User has logged in, Sleep tracking feature is enabled.

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

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

- Open the Sleep Tracking section of the app.
- Wear the fitness tracker/sensor while sleeping.
- Review the recorded sleep data in the app.

**\*\*Expected Result:\*\*** Sleep duration and quality data is displayed accurately.

**\*\*2. Verify that users can view detailed sleep stages and patterns\*\***

**\*\*Test Case ID:\*\* FT-Sleep-02**

**\*\*Test Case Description:\*\*** This test case verifies that the app provides detailed information on sleep stages (e.g., light sleep, deep sleep, REM) and patterns over different timeframes.

**\*\*Preconditions:\*\*** User has completed previous test case (FT-Sleep-01).

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

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

- Access the Sleep Summary report.
- Review the breakdown of sleep stages and patterns.
- Compare results with other sleep tracking apps or professional sleep studies.

**\*\*Expected Result:\*\*** Detailed sleep stage data is visualized clearly and provides insights.

**\*\*3. Verify that the app provides insights into sleep disturbances\*\***

**\*\*Test Case ID:\*\* FT-Sleep-03**

**\*\*Test Case Description:\*\*** This test case verifies the app's ability to identify and highlight potential sleep disturbances based on sensor data.

**\*\*Preconditions:\*\*** User has completed previous test cases.

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

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

- Review the Sleep Disturbances report.
- Identify any significant deviations from a normalized sleep pattern.
- Check for correlations between sleep disturbances and other factors like stress, diet, or medication.

**\*\*Expected Result:\*\*** The app identifies and highlights potential sleep disturbances with recommendations for improvement.

**\*\*4. Verify that the app provides recommendations for improving sleep quality\*\***

**\*\*Test Case ID:\*\* FT-Sleep-04**

**\*\*Test Case Description:\*\*** This test case verifies that the app provides personalized recommendations to enhance sleep quality based on user data and identified disturbances.

**\*\*Preconditions:\*\*** User has completed previous test cases.

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

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

- Review the Sleep Improvement Recommendations section.
- Validate recommendations align with established sleep hygiene practices.
- Track and monitor the impact of implemented recommendations on sleep quality.

**\*\*Expected Result:\*\*** The app offers practical and relevant recommendations for improving sleep quality.

**\*\*5. Verify that sleep data can be viewed in daily, weekly, and monthly summaries\*\***

**\*\*Test Case ID:\*\*** FT-Sleep-05

**\*\*Test Case Description:\*\*** This test case verifies the app's ability to summarize sleep data across different timeframes.

**\*\*Preconditions:\*\*** User has completed previous test cases.

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

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

- Access the Sleep Summary Dashboard.
- Review sleep data summaries for different timeframes (daily, weekly, monthly).
- Verify the accuracy and completeness of data across different summaries.

**\*\*Expected Result:\*\*** Sleep data is summarized clearly and efficiently across different timeframes.

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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:\*\*** FT-1

**\*\*Test Case Description:\*\*** This test case ensures users can record different workout types (e.g., running, cycling, swimming) along with duration, intensity (measured in percentage), and optional notes.

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

1. Launch the Fitness Tracker App
2. Navigate to the Workout Log section
3. Select "Log New Workout" option

4. Choose desired workout type from the list
5. Input workout duration and intensity
6. Add optional notes or comments
7. Click "Save" button

**\*\*Expected Result:\*\*** The workout is logged with the chosen type, duration, intensity, and notes.

**\*\*Test Case 2:\*\*** Verify that workout logs include duration, intensity, and notes

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

**\*\*Test Case Description:\*\*** This test case verifies that the recorded workout logs display duration, intensity level, and any notes entered.

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

1. Log a workout using various types and input details
2. Access the Workout Log section
3. Review the logged workouts
4. Verify that the duration, intensity, and notes are displayed correctly for each workout

**\*\*Expected Result:\*\*** The displayed workout logs include all relevant information as entered during logging.

**\*\*Test Case 3:\*\*** Verify that users can edit and delete workout entries

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

**\*\*Test Case Description:\*\*** This test case ensures users can edit previously logged workouts to make necessary changes and delete unwanted entries.

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

1. Log a workout
2. Access the Workout Log section
3. Select the desired workout entry
4. Edit the duration, intensity, or notes
5. Click "Save" or "Delete" button

**\*\*Expected Result:\*\*** The edited information is reflected in the workout log, or the workout is deleted from the list.

**\*\*Test Case 4:\*\*** Verify that data is stored and viewable for tracking progress

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

**\*\*Test Case Description:\*\*** This test case verifies that workout data is saved and can be viewed for tracking progress over time.

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

1. Log several different workouts
2. Access the Progress section
3. Review the displayed workout history
4. Filter logs by date or workout type

**\*\*Expected Result:\*\*** The app displays a clear and concise history of logged workouts, allowing users to track their progress over time.

**\*\*Test Case 5:\*\*** Verify that users can filter logs by date and workout type

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

**\*\*Test Case Description:\*\*** This test case ensures users can filter logged workouts by specific date ranges and types to easily locate desired entries.

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

1. Log various workout types
2. Access the Workout Log section
3. Use the filter options to select a date range or workout type
4. Review the displayed results

**\*\*Expected Result:\*\*** The app filters the logged workouts based specified criteria, providing quick access to relevant data.

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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 - Test Cases

**\*\*Test Case 1:\*\*** Verify that users can set goals for various fitness metrics

Test Case ID: FT1

Test Case Description: This test ensures users can set specific goals for steps, calories burned, distance, and heart rate.

Test Data: Step count goal of 10,000 steps, Calorie burn goal of 1500 calories, Distance goal of 5 miles, Heart rate goal of 120 BPM

Test Steps:

1. Navigate to the "Goals" section.
2. Select the fitness metric to set a goal for.
3. Enter the desired goal value.
4. Click "Set Goal."

Expected Result: The goal is saved and displayed in the "Goals" section.

**\*\*Test Case 2:\*\*** Verify progress tracking for set goals

Test Case ID: FT2

Test Case Description: This test verifies that the app tracks and displays progress towards each set goal.

Test Data: Existing goal from FT1

Test Steps:

1. Monitor the app after setting a goal.
2. Perform activities that contribute to the goal.
3. Review the progress tracker.

Expected Result: The progress tracker shows the user's advancement towards their set goal.

**\*\*Test Case 3:\*\*** Verify motivational feedback and reminders

Test Case ID: FT3

Test Case Description: This test ensures that the app provides motivating feedback and reminders to users.

Test Data: No specific data needed

Test Steps:

1. Set a goal and track progress.
2. Receive motivational messages and reminders.
3. Review the "Motivation" section.

Expected Result: The app provides encouraging messages and reminders to keep users motivated.

**\*\*Test Case 4:\*\*** Verify the ability to adjust and update goals

Test Case ID: FT4

Test Case Description: This test verifies that users can adjust or update their set goals as needed.

Test Data: Existing goal from FT1

Test Steps:

1. Access the previously set goal.
2. Click the "Update Goal" button.
3. Modify the desired goal value.
4. Click "Update."

Expected Result: The goal is updated in the "Goals" section.

**\*\*Test Case 5:\*\*** Verify the generation of a goal attainment summary

Test Case ID: FT5

Test Case Description: This test ensures that the app generates a summary of goal attainment.

Test Data: Completed goals from previous tests

Test Steps:

1. Review the "Goals" section.
2. Check for a summary of completed goals.

Expected Result: The app displays a summary of successfully achieved goals.

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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:**

## Test Cases for Fitness Tracker App's Workout Plans Feature

\*\*1. Verify that users can select workout plans based on fitness levels\*\*

Test Case ID: FT-01

Test Case Description: Test that users can choose workout plans tailored to different fitness levels from



beginner to advanced.

Test Data: Select different fitness levels from the dropdown list.

Test Steps:

- Launch the app and navigate to the Workout Plans section.
- Select a fitness level.
- Verify that relevant workout plans are displayed.

Expected Result: The displayed plans are appropriate for the selected fitness level.

**\*\*2. Verify that plans include detailed exercise routines and schedules\*\***

Test Case ID: FT-02

Test Case Description: Ensure that workout plans include detailed exercise routines, sets, reps, and scheduling information.

Test Data: Choose a specific workout plan.

Test Steps:

- Select a workout plan from the list.
- Review the detailed exercise routine and schedule.

Expected Result: The plan includes clear instructions and scheduled exercise sessions.

**\*\*3. Verify that users can track adherence and progress within the plan\*\***

Test Case ID: FT-03

Test Case Description: Test that users can track their adherence to the chosen workout plan and monitor their progress.

Test Data: Select a workout plan and track adherence over time.

Test Steps:

- Start following a chosen workout plan.
- Regularly review the adherence and progress statistics.

Expected Result: The app tracks adherence, displays completed exercises, and allows progress visualization.

**\*\*4. Verify that the app provides notifications and reminders for workouts\*\***

Test Case ID: FT-04

Test Case Description: Ensure that the app sends timely reminders and notifications for upcoming workout sessions.

Test Data: Set a workout reminder.

Test Steps:

- Configure workout reminders in the settings.
- Schedule a future workout.

Expected Result: The app sends notifications reminding users of their upcoming workouts.

**\*\*5. Verify that users can adjust plans based on progress and preferences\*\***

Test Case ID: FT-05

Test Case Description: Test that users can customize their chosen workout plan based on their progress and preferences.

Test Data: Adjust plan parameters within the app.

Test Steps:

- Review progress and assess need for adjustments.
- Modify aspects of the selected workout plan.

Expected Result: The app allows for flexible adjustments to meet individual needs and preferences.

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## **Data - 84**

### **Project name -**

Fitness Tracker App

### **Project description -**

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

### **Feature name -**

Community Support

### **Feature description -**

Users can connect with a community of like-minded individuals, share progress updates, participate in challenges, and offer support and encouragement to fellow users. Community support fosters accountability, motivation, and a sense of camaraderie among users striving towards similar fitness goals.

### **Userstory title -**

As a user, I want to connect with a community so that I can share my progress and stay motivated.

### **Acceptance criteria -**

['Users can join and participate in community groups.', 'Users can share progress updates and achievements.', 'The app facilitates participation in community challenges.', 'Users can offer and receive support and encouragement.', 'Community activity and engagement are tracked.']

### **Generated Test Cases:**

## Fitness Tracker App - Community Support Test Cases

**\*\*1. Verify that users can join and participate in community groups.\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies that users can join existing community groups and actively participate in discussions.

**\*\*Preconditions:\*\*** User has registered for the app, community groups are available.

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

- Navigate to the community page.
- Select a available community group.
- Verify that user profile is displayed in the group list.
- Post a message in the group chat.

**\*\*Expected Result:\*\*** User successfully joins the group and can interact with other members.

**\*\*2. Verify that users can share progress updates and achievements.\*\***

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

**\*\*Test Case Description:\*\*** This test case ensures that users can share their fitness achievements and progress updates within the community.

**\*\*Preconditions:\*\*** User has set fitness goals and tracked progress.

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

- Access community page.
- Select "Share Achievement."
- Choose specific activity or milestone.
- Provide a short comment.

**\*\*Expected Result:\*\*** Shared progress update is visible to the community members.

**\*\*3. Verify that the app facilitates participation in community challenges.\*\***

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

**\*\*Test Case Description:\*\*** This test case checks that the app allows for participation in community-driven fitness challenges.

**\*\*Preconditions:\*\*** Community challenges are available.

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

- Navigate to the "Challenges" section.
- Select an ongoing challenge.
- Join the challenge and set goals.

**\*\*Expected Result:\*\*** User successfully joins the challenge and can track their performance against others.

**\*\*4. Verify that the app offers support and encouragement within the community.\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies that the app enables users to offer and receive encouragement and support within the community.

**\*\*Preconditions:\*\*** User has interactions with other community members.

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

- Send private messages of encouragement to other users.
- Like and comment on others' posts.
- Respond to comments and questions.

**\*\*Expected Result:\*\*** User contributes to the supportive environment within the community.

**\*\*5. Verify that community activity and engagement are tracked.\*\***

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

**\*\*Test Case Description:\*\*** This test case checks that the app tracks and displays community engagement metrics.

**\*\*Preconditions:\*\*** User has engaged in various community activities.

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

- Navigate to the community analytics page.
- Review the statistics on active users, posts, challenges, and engagement levels.

**\*\*Expected Result:\*\*** The app accurately tracks and displays key community engagement metrics.

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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 Test Cases**

**\*\*1. Verify that the app supports integration with multiple wearable devices\*\***

\* Test Case ID: FT-001

\* Test Case Description: Test that the app successfully connects to and retrieves data from various popular wearable devices.

\* Preconditions: User is logged in, Wearable device(s) are paired with the app.

\* Test Steps:

- Connect different wearable devices to the app.
- Verify that the app recognizes and displays data from each device.

\* Expected Result: The app seamlessly connects to multiple wearable devices and displays their data accurately.

**\*\*2. Verify that users can sync activity data from their wearables\*\***

\* Test Case ID: FT-002

- \* Test Case Description: Ensure that activity data from wearables is uploaded to the app and stored correctly.
- \* Preconditions: User has connected a wearable device, Activity data is available on the wearable.
- \* Test Steps:
  - Perform physical activity while wearing the wearable device.
  - Sync the data with the app.
  - Verify that the data is successfully stored in the app and displayed correctly.
- \* Expected Result: Activity data from wearable devices is synced seamlessly and stored accurately in the app.

**\*\*3. Verify that the app provides real-time data updates from wearables\*\***

\* Test Case ID: FT-003

- \* Test Case Description: Ensure the app updates activity data from wearables in real-time.
- \* Preconditions: User has connected a wearable device, Activity data is streaming from the wearable.
- \* Test Steps:
  - Perform physical activity while tracking with the wearable device.
  - Monitor activity data updates on the app in real-time.
- \* Expected Result: The app updates activity data from the wearable in real-time, reflecting changes in real-time activity.

**\*\*4. Verify that wearable data includes steps, heart rate, and calories burned\*\***

\* Test Case ID: FT-004

- \* Test Case Description: Ensure that the app accurately collects and displays data for steps taken, heart rate, and calories burned from wearables.
- \* Preconditions: User has connected a wearable device, Activity data is available on the wearable.



\* Test Steps:

- Track physical activity using the wearable device.
- Review the collected data in the app.

\* Expected Result: The app displays accurate data for steps taken, heart rate, and calories burned from connected wearable devices.

**\*\*5. Verify that users can troubleshoot connectivity issues with wearables\*\***

\* Test Case ID: FT-005

\* Test Case Description: Ensure that the app offers options for troubleshooting connectivity issues with wearable devices.

\* Preconditions: User has connected a wearable device, Connectivity issue exists.

\* Test Steps:

- Encounter a connection error while syncing with the wearable device.
- Test various troubleshooting options provided by the app.

\* Expected Result: The app provides helpful suggestions and options to resolve connectivity issues with wearable devices.

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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

**\*\*1. Verify that users can log their daily water intake.\*\***

**\*\*Test Case ID:\*\* FH3Q7d**

**\*\*Test Case Description:\*\*** Test that users can successfully input various amounts of water throughout the day and that the app records them accurately.

**\*\*Preconditions:\*\*** User is logged in, hydration goals are set.

**\*\*Test Data:\*\*** 0-20 glasses of water, various timestamps.

**\*\*Test Steps:\*\*** 1. Input different water amounts. 2. Verify that the total daily intake is displayed. 3. Verify that individual timestamps are recorded.

**\*\*Expected Result:\*\*** Water intake is logged and total daily intake is accurate.

**\*\*2. Verify that the app calculates total water consumption for the day.\*\***

**\*\*Test Case ID:\*\*** Rg3y5Q

**\*\*Test Case Description:\*\*** Test that the app automatically calculates and displays the total water consumption for the current day.

**\*\*Preconditions:\*\*** User has logged water intake for the day.

**\*\*Test Data:\*\*** Multiple water entries with different amounts.

**\*\*Test Steps:\*\*** 1. Input multiple water amounts throughout the day. 2. Verify that the app displays the total water consumption for the day.

**\*\*Expected Result:\*\*** The app accurately calculates and displays the total water consumption for the day.

**\*\*3. Verify that users can set daily hydration goals.\*\***

**\*\*Test Case ID:\*\*** Vh8n4Q

**\*\*Test Case Description:\*\*** Test that users can set custom daily hydration goals and receive reminders to drink water.

**\*\*Preconditions:\*\*** User is logged in.

**\*\*Test Data:\*\*** Specific daily water target in ml.

**\*\*Test Steps:\*\*** 1. Go to settings and select hydration goals. 2. Input desired daily water intake. 3. Verify that reminders are sent throughout the day.

**\*\*Expected Result:\*\*** The user can set a custom daily hydration goal and receive reminders to drink water.

**\*\*4. Verify that the app provides reminders for regular water intake.\*\***

**\*\*Test Case ID:\*\* Uj843v**

**\*\*Test Case Description:\*\*** Test that the app sends timely reminders to encourage users to drink water throughout the day.

**\*\*Preconditions:\*\*** User has set daily hydration goal and enabled reminders.

**\*\*Test Data:\*\*** Time interval between reminders.

**\*\*Test Steps:\*\*** 1. Enable water intake reminders. 2. Monitor notifications and verify that reminders are delivered within the set time interval.

**\*\*Expected Result:\*\*** The app sends reminders at the specified intervals to encourage regular water consumption.

**\*\*5. Verify that users can view hydration progress and trends.\*\***

**\*\*Test Case ID:\*\* Yg5e2b**

**\*\*Test Case Description:\*\*** Test that users can track their hydration progress over time and visualize trends in various formats.

**\*\*Preconditions:\*\*** User has logged water intake data.

**\*\*Test Data:\*\*** Various timestamps and water amounts.

**\*\*Test Steps:\*\*** 1. Access the hydration tracking section. 2. Review daily and historical water intake data. 3. Analyze trends and patterns.

**\*\*Expected Result:\*\*** The app allows users to visualize and track their hydration progress and identify patterns in their water consumption.

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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 -**

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

**\*\*1. Verify that users can log their daily meals and snacks\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies that users can successfully log meals and snacks into the

nutrition tracker, including adding details like time, food name, and serving size.

**\*\*Preconditions:\*\*** User is logged in, Nutrition tracking feature is enabled

**\*\*Test Data:\*\*** Various meals and snacks

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

- Open the Nutrition Tracker
- Create a new meal/snack entry
- Enter details like time, food name, serving size
- Save the entry

**\*\*Expected Result:\*\*** Meal/snack is successfully logged in the Nutrition Tracker

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

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

**\*\*2. Verify that the app calculates macronutrient intake\*\***

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

**\*\*Test Case Description:\*\*** This test case checks that the app accurately calculates the intake of carbohydrates, fats, and proteins for logged meals.

**\*\*Preconditions:\*\*** User has created meal/snack entries with macronutrient content

**\*\*Test Data:\*\*** Meal data with specified macronutrient values

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

- Log multiple meals with different macronutrient content
- Review the calculated total for each macronutrient

**\*\*Expected Result:\*\*** The app accurately calculates and displays the total macronutrient intake for logged meals.

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

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

**\*\*3. Verify that users can set nutritional goals and track progress\*\***

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

**\*\*Test Case Description:\*\*** This test case confirms that users can set specific nutritional goals and track their progress in achieving them.

**\*\*Preconditions:\*\*** User has set macronutrient intake goals

**\*\*Test Data:\*\*** Specific weekly nutrient goals

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

- Set weekly nutritional goals
- Track daily intake of macros
- Review progress towards monthly goals

**\*\*Expected Result:\*\*** The app tracks progress and displays the user's status towards their nutritional goals.

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

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

**\*\*4. Verify that the app provides nutritional information and suggestions\*\***

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

**\*\*Test Case Description:\*\*** This test case evaluates if the app provides informative and personalized nutritional suggestions based on user data and goals.

**\*\*Preconditions:\*\*** User has completed a nutrition assessment

**\*\*Test Data:\*\*** User dietary history and preferences

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

- Review provided nutritional suggestions

- Verify that suggestions align with user goals

**\*\*Expected Result:\*\*** The app provides relevant and actionable nutritional guidance.

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

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

**\*\*5. Verify that users can view their nutritional history and trends\*\***

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

**\*\*Test Case Description:\*\*** This test case ensures that users can access and analyze their historical nutrition data.

**\*\*Preconditions:\*\*** User has a history of logged meals

**\*\*Test Data:\*\*** Previous meal data

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

- Access the Nutrition History section

- Review historical meal data and macronutrient intake

- Identify trends and patterns

**\*\*Expected Result:\*\*** The app displays comprehensive nutritional history and allows users to identify trends and patterns in their dietary habits.

**\*\*Severity:\*\*** High

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

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**Data - 88**

**Project name -**

Fitness Tracker App



## **Project description -**

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

## **Feature name -**

Progress Reports

## **Feature description -**

Users receive regular progress reports and summaries summarizing their activity levels, workout performance, and goal attainment. Progress reports highlight achievements, trends, and areas for improvement, empowering users to make informed decisions and adjustments to their fitness routines.

## **Userstory title -**

As a user, I want to receive progress reports so that I can track my achievements and identify areas for improvement.

## **Acceptance criteria -**

['Users receive weekly and monthly progress reports.', 'Reports include activity levels, workout performance, and goal attainment.', 'Users can view detailed breakdowns of achievements and trends.', 'The app provides recommendations based on report findings.', 'Users can customize the frequency and content of reports.']

## **Generated Test Cases:**

## Fitness Tracker App - Progress Reports Test Cases

**\*\*1. Verify that weekly progress reports are generated and include activity levels\*\***

- Test Description: Ensure that weekly reports are automatically generated and sent to users, containing detailed activity levels for the past week.
- Preconditions: User has connected wearable device, set weekly report frequency.

- Test Steps:

- Launch the app and navigate to the progress section.
- Confirm that a weekly report is available for download.
- Review the report and ensure that activity levels for steps, calories, distance, and heart rate are displayed correctly.

**\*\*2. Verify that monthly reports track workout performance and goal attainment\*\***

- Test Description: Verify that monthly reports provide an overview of workout performance and progress towards goals.
- Preconditions: User has logged at least 5 workouts in the past month.
- Test Steps:
  - Select the monthly report option.
  - Verify that the report includes data on the number and duration of workouts performed.
  - Check if the report tracks progress towards defined goals for steps, calories, or distance.

**\*\*3. Verify that detailed breakdowns of achievements are offered in reports\*\***

- Test Description: Ensure that reports offer detailed breakdowns of achievements, categorized by activity type or timeframe.
- Preconditions: User has completed multiple activities of different types.
- Test Steps:
  - Generate a report spanning multiple activity types.
  - Verify that the report breaks down achievements into individual activities.
  - Check if the report displays performance trends over time.

**\*\*4. Verify that personalized recommendations are provided based on report findings\*\***

- Test Description: Ensure that reports generate personalized recommendations based on activity data and trends.

- Preconditions: User has sufficient historical activity data.

- Test Steps:

- Generate a report and review the recommendations section.

- Confirm that recommendations align with identified trends and areas for improvement.

**\*\*5. Verify that users can customize the frequency and content of reports\*\***

- Test Description: Ensure users can control the frequency and content of generated reports.

- Preconditions: User has access to report settings.

- Test Steps:

- Access report settings.

- Modify the frequency of weekly and monthly reports.

- Choose specific data points to include in monthly reports.

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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 Challenge Test Cases

**\*\*1. Verify that users can join various in-app challenges\*\***

- Test Case ID: FT-InAppChallenge-01

- Test Case Description: Check that users can seamlessly join existing challenges with different objectives and rules.

- Preconditions: User is logged in, various in-app challenges are available.

- Test Data: N/A

- Test Steps:
  - Browse available challenges.
  - Click on a desired challenge and confirm participation.
  - Verify that the user is enrolled in the chosen challenge.
- Expected Result: The user successfully joins the chosen challenge.

**\*\*2. Verify that challenges have clear objectives and rules\*\***

- Test Case ID: FT-InAppChallenge-02
- Test Case Description: Ensure that challenge details include clear objectives, rules, and scoring criteria.
- Preconditions: User has joined a challenge.
- Test Data: Name of a specific challenge
- Test Steps:
  - Access the details of the chosen challenge.
  - Verify that the objective, rules, and scoring criteria are clearly explained.
- Expected Result: The challenge details provide comprehensive information to participants.

**\*\*3. Verify that users can track their progress within the challenge\*\***

- Test Case ID: FT-InAppChallenge-03
- Test Case Description: Check that users can track their progress against challenge milestones.
- Preconditions: User is participating in a challenge.
- Test Data: Name of a specific challenge
- Test Steps:
  - Monitor the progress dashboard during participation.

- Track steps, calories burned, and other relevant metrics.
- Expected Result: The app displays accurate and updated progress information within the challenge.

**\*\*4. Verify that rewards are provided for achieving challenge milestones\*\***

- Test Case ID: FT-InAppChallenge-04
- Test Case Description: Ensure that users receive rewards for completing challenge stages or achieving set milestones.
- Preconditions: User has completed a specific challenge phase.
- Test Data: Name of a challenge and its reward system
- Test Steps:
  - Complete challenge milestones.
  - Verify that the appropriate rewards are credited to the user's account.
- Expected Result: The system awards points, badges, or other rewards accordingly.

**\*\*5. Verify that users can compete with friends and view leaderboards\*\***

- Test Case ID: FT-InAppChallenge-05
- Test Case Description: Check that users can track their performance relative to friends and view leaderboard rankings.
- Preconditions: User is connected with friends in the app.
- Test Data: Names of friends or friend IDs
- Test Steps:
  - Join the same challenge as friends.
  - Track individual rankings on the leaderboard.

- Expected Result: The app displays accurate rankings and allows friendly competition within the challenge.

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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 - Test Cases

**\*\*1. Verify that users can select which metrics to display on their dashboards\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies the functionality of selecting which fitness metrics to display on the dashboard.

**\*\*Preconditions:\*\*** User is logged in, Dashboard is open

**\*\*Test Data:\*\*** Select various fitness metrics (e.g., steps, calories, distance)

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

- Navigate to Dashboard settings
- Select desired metrics from the available options
- Verify that the selected metrics are displayed on the dashboard

**\*\*Expected Result:\*\*** The selected metrics are displayed on the dashboard.

**\*\*2. Verify that the app allows customization of dashboard layout and theme\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies the ability to customize the layout and theme of the dashboard.

**\*\*Preconditions:\*\*** User is logged in, Dashboard is open

**\*\*Test Data:\*\*** Custom layout configuration

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

- Navigate to Dashboard settings
- Select "Customize Layout" option
- Configure the desired layout of the dashboard



- Select a different theme
- Verify that the changes are reflected on the dashboard

**\*\*Expected Result:\*\*** The dashboard layout and theme are customized as desired.

**\*\*3. Verify that users can save and update their dashboard settings\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies the functionality of saving and updating dashboard settings.

**\*\*Preconditions:\*\*** User is logged in, Dashboard is open

**\*\*Test Data:\*\*** Custom dashboard configuration

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

- Navigate to Dashboard settings
- Make changes to the dashboard layout, theme, or selected metrics
- Click "Save Changes" button
- Verify that the changes are saved and reflected on the dashboard

**\*\*Expected Result:\*\*** The dashboard settings are saved and can be updated as needed.

**\*\*4. Verify that dashboard displays are dynamic and update in real-time\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies that the dashboard dynamically updates in real-time with changes in fitness data.

**\*\*Preconditions:\*\*** User is logged in, Fitness tracker is connected

**\*\*Test Data:\*\*** Activity data being collected by the fitness tracker

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

- Start tracking activity through the fitness tracker
- Observe the dashboard in real-time
- Verify that the dashboard updates automatically with the latest activity data

**\*\*Expected Result:\*\*** The dashboard updates in real-time, displaying the latest fitness data.

**\*\*5. Verify that users can reset the dashboard to default settings\*\***

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

**\*\*Test Case Description:\*\*** This test case verifies the functionality of resetting the dashboard to its default settings.

**\*\*Preconditions:\*\*** User is logged in, Dashboard is open

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

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

- Navigate to Dashboard settings
- Click "Reset Dashboard" button
- Verify that all dashboard settings are reset to default

**\*\*Expected Result:\*\*** The dashboard is reset to its default state with its standard layout, theme, and metrics.

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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 social media platforms.

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

**\*\*Test Case Title:\*\*** Verify that users can share workout summaries on social media platforms.

**\*\*Test Case Description:\*\*** This test case verifies that users can share summarized workout data (distance, calories, steps) to various social media platforms.

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

- Log in as a user.

- Complete a workout.
- Go to the "Social Sharing" section.
- Select a desired social media platform.
- Verify that the workout summary is shared successfully.

**\*\*Expected Result:\*\*** The workout summary is shared successfully on the chosen social media platform.

**\*\*Test Case 2:\*\*** Verify that the app supports sharing on multiple social media platforms.

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

**\*\*Test Case Title:\*\*** Verify that the app supports sharing on multiple social media platforms.

**\*\*Test Case Description:\*\*** This test case verifies that the app supports sharing workout data to multiple social media platforms, including Facebook, Twitter, and Instagram.

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

- Go to the "Social Sharing" section.
- Check the availability of different social media options.
- Choose multiple social media platforms.
- Verify that sharing is available for all selected platforms.

**\*\*Expected Result:\*\*** The app allows sharing on all selected social media platforms.

**\*\*Test Case 3:\*\*** Verify that users can customize the content and format of shared posts.

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

**\*\*Test Case Title:\*\*** Verify that users can customize the content and format of shared posts.

**\*\*Test Case Description:\*\*** This test case verifies that users can customize the title, description, and hashtags of their shared workout summaries.

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

- Choose a social media platform.
- Select "Share Workout Summary."
- Enter a custom title and description.
- Add relevant hashtags.
- Verify that the shared post contains the desired elements.

**\*\*Expected Result:\*\*** The shared post features the customized title, description, and hashtags.

**\*\*Test Case 4:\*\*** Verify that sharing features are integrated seamlessly with social media.

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

**\*\*Test Case Title:\*\*** Verify that sharing features are integrated seamlessly with social media.

**\*\*Test Case Description:\*\*** This test case verifies that sharing actions are automatically linked with the chosen social media platform's authentication and sharing protocols.

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

- Login to the social media platform from the app.
- Share a workout summary.
- Verify that the post is automatically published on the social media platform.

**\*\*Expected Result:\*\*** The shared workout data is published seamlessly on the chosen social media platform.

**\*\*Test Case 5:\*\*** Verify that users can track the engagement of their shared posts.

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

**\*\*Test Case Title:\*\*** Verify that users can track the engagement of their shared posts.

**\*\*Test Case Description:\*\*** This test case verifies that users can track the number of likes, comments, and

shares of their shared workout summaries.

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

- Share a workout summary.
- Monitor the "Engagement" section.
- Verify that the number of likes, comments, and shares is accurately reflected.

**\*\*Expected Result:\*\*** The app tracks and displays the engagement metrics for shared workout summaries.

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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**

#### **\*\*1. Verify that users can log rest days\*\***

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

**\*\*Test Case Description:\*\*** Ensures that users can successfully log rest days and update their recovery tracking data.

**\*\*Preconditions:\*\*** User is logged in, has access to the Rest & Recovery tracking feature.

**\*\*Test Data:\*\*** Date, reason for rest.

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

- Navigate to the Rest & Recovery tracking section.
- Click on "Log Rest Day."
- Enter the date and reason for the rest day.
- Verify that the rest day is logged and reflected in the recovery tracking data.

#### **\*\*2. Verify that the app tracks metrics such as resting heart rate and sleep quality\*\***

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

**\*\*Test Case Description:\*\*** Tests the tracking of resting heart rate and sleep quality during recovery activities.

**\*\*Preconditions:\*\*** User has enabled resting heart rate and sleep quality tracking.

**\*\*Test Data:\*\*** Heart rate data, sleep duration.

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

- Perform a recovery activity like meditation or yoga.
- Monitor the app and ensure it tracks resting heart rate and sleep quality during the activity.
- Review the tracked data to ensure accurate recording.

**\*\*3. Verify that users receive recommendations for recovery based on their activities\*\***

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

**\*\*Test Case Description:\*\*** Confirms the app provides personalized recommendations for recovery activities based on user activity data.

**\*\*Preconditions:\*\*** User has completed multiple recovery activities.

**\*\*Test Data:\*\*** Various recovery activities.

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

- Perform different recovery activities.
- Note the recommended recovery activities provided by the app for each activity.
- Verify that the recommendations align with known recovery practices.

**\*\*4. Verify that the app provides alerts for insufficient recovery time\*\***

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

**\*\*Test Case Description:\*\*** Checks the functionality of alerts for insufficient recovery time based on individual activity intensity.

**\*\*Preconditions:\*\*** User has completed an intensive recovery activity.

**\*\*Test Data:\*\*** Intensity level of the activity.

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

- Perform an intensive recovery activity.
- Monitor the app and ensure it alerts the user when insufficient recovery time is detected.
- Verify that the message clearly explains the need for rest.



**\*\*5. Verify that users can view trends and history of their recovery data\*\***

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

**\*\*Test Case Description:\*\* Ensures the app allows users to track and visualize their recovery data over time.**

**\*\*Preconditions:\*\* User has logged rest days and recovery activities.**

**\*\*Test Data:\*\* Various dates and recovery metrics.**

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

- Access the Recovery History section.
- Review the recorded rest days and recovery activities.
- Verify that the app displays trends and insights on recovery progress.

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**Data - 93**

**Project name -**

Fitness Tracker App

**Project description -**

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

**Feature name -**

Audio Coaching

**Feature description -**

Users can access audio-guided workouts, coaching cues, and motivational messages during their workouts, enhancing engagement and adherence. Audio coaching provides real-time feedback, encouragement, and

guidance, simulating the experience of having a personal trainer or workout buddy.

### **Userstory title -**

As a user, I want to access audio coaching during workouts so that I can stay motivated and receive real-time guidance.

### **Acceptance criteria -**

['Users can access a variety of audio-guided workouts.', 'Audio coaching includes motivational messages and coaching cues.', 'Users can choose coaching based on workout type and intensity.', 'Audio coaching integrates seamlessly with other app features.', 'Users can control audio settings and preferences.']

### **Generated Test Cases:**

#### **## Fitness Tracker App - Test Cases**

**\*\*1. Verify that users can access a variety of audio-guided workouts\*\***

\* Test Case ID: FIT-01

\* Test Case Description: Test the selection and accessibility of different workout types with various audio coaching options.

\* Preconditions: User logged in, an active internet connection.

\* Test Data: Various workout types (cardio, strength training, yoga, etc.)

\* Test Steps:

- Navigate to the audio coaching section.
- Select different workout types.
- Verify the availability of audio files for each workout.

\* Expected Result: The system displays a list of available workouts based on the chosen type.

**\*\*2. Verify that audio coaching includes motivational messages and coaching cues\*\***

\* Test Case ID: FIT-02

\* Test Case Description: Ensure that motivational messages and coaching cues are seamlessly integrated into the audio coaching experience.

\* Preconditions: Same as previous test case.

\* Test Data: Sample motivational phrases and coaching cues.

\* Test Steps:

- Select a workout and start the audio coaching.

- Listen for motivational messages and coaching cues during the workout.

\* Expected Result: The audio coaching provides relevant motivational quotes and guidance relevant to the chosen workout.

**\*\*3. Verify that users can choose coaching based on workout type and intensity\*\***

\* Test Case ID: FIT-03

\* Test Case Description: Test the ability to filter audio coaching based on workout type and intensity levels.

\* Preconditions: Same as previous test cases.

\* Test Data: Various workout types and intensity levels.

\* Test Steps:

- Select different workout types and intensities.

- Verify that the offered audio coaching aligns with the selected parameters.

\* Expected Result: The system filters the audio coaching based on the chosen parameters.

**\*\*4. Verify that audio coaching integrates seamlessly with other app features\*\***

\* Test Case ID: FIT-04

\* Test Case Description: Ensure that the audio coaching feature interacts seamlessly with other app features like workout tracking and progress monitoring.

\* Preconditions: Same as previous test cases.

\* Test Data: Sample workout data.

\* Test Steps:

- Perform a workout and track it using the app.
- Check for audio coaching synchronization with the tracked workout.

\* Expected Result: The audio coaching aligns with the tracked workout and reflects the progress in real-time.

**\*\*5. Verify that users can control audio settings and preferences\*\***

\* Test Case ID: FIT-05

\* Test Case Description: Test the functionality of adjusting audio settings, including volume control and playback speed.

\* Preconditions: Same as previous test cases.

\* Test Data: Various audio volume levels and playback speeds.

\* Test Steps:

- Access the audio settings menu.
- Adjust volume level and playback speed.

\* Expected Result: The system allows for granular control over audio settings and 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 Test Cases

\*\*1. Verify that the app integrates with popular health and wellness apps.\*\*

\* Test Case ID: FT-1

\* Test Case Description: Check if the app connects with well-known calorie counters, meditation apps, and mental health trackers.

\* Preconditions: User account in the fitness tracker app, accounts in target health apps.

\* Test Data: Various health apps (e.g., MyFitnessPal, Calm, Headspace).

\* Test Steps:

- Select the "Integration" settings.
- Add target health apps to the list.
- Verify successful connection with the chosen apps.

\* Expected Result: The app connects seamlessly with the selected health apps.

**\*\*2. Verify that users can sync data from connected health apps.\*\***

\* Test Case ID: FT-2

\* Test Case Description: Ensure that data like steps, calories, and heart rate from connected apps is correctly uploaded to the fitness tracker app.

\* Preconditions: Connected health apps, internet connection.

\* Test Data: Step count data from a step tracker, calorie burn data from a calorie counter.

\* Test Steps:

- Perform an activity tracked by a connected app.
- Review the fitness tracker app and ensure the data is automatically uploaded.

\* Expected Result: Synced data is accurate and displayed in the fitness tracker app.

**\*\*3. Verify that the app provides a consolidated view of health metrics.\*\***

\* Test Case ID: FT-3

\* Test Case Description: Check that the app aggregates data from connected health apps to provide a holistic overview of well-being.

\* Preconditions: Connected health apps, data synchronization.

\* Test Data: Health data from multiple apps.

\* Test Steps:

- Access the "Health Summary" section.

- Review the summary of different metrics from connected apps.

\* Expected Result: The app displays a comprehensive overview of health data from connected apps.

**\*\*4. Verify that the app offers personalized recommendations based on combined data.\*\***

\* Test Case ID: FT-4

\* Test Case Description: Check if the app generates personalized recommendations based on the analyzed health data from connected apps.

\* Preconditions: Connected health apps, data synchronization.

\* Test Data: Various health and activity data.

\* Test Steps:

- Review the "Recommendations" section.

- Check for personalized suggestions based on identified trends.

\* Expected Result: The app provides tailored recommendations to improve overall well-being.

**\*\*5. Verify that integration settings are easy to manage and configure.\*\***

\* Test Case ID: FT-5

\* Test Case Description: Ensure that users can easily manage and configure the app's integration with health

apps.

\* Preconditions: Connected health apps.

\* Test Data: N/A

\* Test Steps:

- Access the "Integration Settings" menu.
- Easily remove or modify connected apps.
- Ensure clear communication throughout the process.

\* Expected Result: The app allows for simple and intuitive configuration of health app integrations.

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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:**

#### **## Test Cases for Fitness Tracker App - Body Composition Tracking**

**\*\*Test Case 1:\*\*** Verify that users can log body composition metrics

**\*\*Test Case ID:\*\*** FBQ123

**\*\*Test Case Description:\*\*** This test case verifies that users can successfully log their weight, body fat percentage, and muscle mass into the app.

**\*\*Preconditions:\*\*** User is logged in, has access to body composition tracking feature.

**\*\*Test Data:\*\*** Weight: 80kg, Body Fat: 15%, Muscle Mass: 70kg

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

1. Open the Body Composition Tracking section.
2. Enter weight, body fat percentage, and muscle mass values.
3. Click on "Log Data."

**\*\*Expected Result:\*\*** The data is saved and displayed in the user's body composition history.

**\*\*Test Case 2:\*\*** Verify that the app calculates and displays BMI properly

**\*\*Test Case ID:\*\*** FBQ456

**\*\*Test Case Description:\*\*** This test case verifies that the app accurately calculates and displays Body Mass Index (BMI) based on logged body composition data.

**\*\*Preconditions:\*\*** User has logged body composition data.

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

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

1. View the user's logged body composition data.
2. Verify that the app automatically calculates and displays the user's BMI.

**\*\*Expected Result:\*\*** The calculated BMI value is accurate and consistent with industry standards.

**\*\*Test Case 3:\*\*** Verify that users can view trends and history of body composition changes

**\*\*Test Case ID:\*\*** FBQ789

**\*\*Test Case Description:\*\*** This test case verifies that users can track and visualize changes in their body composition metrics over time.

**\*\*Preconditions:\*\*** User has historical body composition data.

**\*\*Test Data:\*\*** 3 months of body composition data.

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

1. Navigate to the Body Composition History section.
2. Select a time range to analyze trends.
3. Review the graphs and charts displaying changes in weight, body fat percentage, muscle mass, and BMI.

**\*\*Expected Result:\*\*** The displayed trends and visualizations accurately reflect the user's body composition changes over time.

**\*\*Test Case 4:\*\*** Verify that the app provides personalized recommendations based on body composition data

**\*\*Test Case ID:\*\*** FBQ101

**\*\*Test Case Description:\*\*** This test case verifies that the app provides relevant and personalized recommendations based on the user's body composition data and goals.

**\*\*Preconditions:\*\*** User has set body composition goals.

**\*\*Test Data:\*\*** Desired outcome: Improve muscle mass and reduce body fat.

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

1. Review the app's recommendations for nutrition, exercise, and lifestyle changes.
2. Verify that the recommendations align with the user's body composition goals.

**\*\*Expected Result:\*\*** The recommendations are helpful and actionable, leading to progress towards the user's goals.

**\*\*Test Case 5:\*\*** Verify that users can set goals for body composition metrics

**\*\*Test Case ID:\*\*** FBQ234

**\*\*Test Case Description:\*\*** This test case verifies that users can set specific goals for weight, body fat percentage, and muscle mass.

**\*\*Preconditions:\*\*** User has access to body composition tracking feature.

**\*\*Test Data:\*\*** Weight: -5kg, Body Fat: -3%, Muscle Mass: +2kg

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

1. Go to the Body Composition Goals section.
2. Enter specific goals for weight, body fat percentage, and muscle mass.
3. Click on "Set Goals."

**\*\*Expected Result:\*\*** The app remembers the user's goals and allows tracking progress towards them.

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**Data - 96**

**Project name -**

Fitness Tracker App

**Project description -**

Create a fitness tracker app that allows users to track their physical activity, exercise routines, and health

metrics such as steps taken, calories burned, distance traveled, and heart rate. The app should include features like workout logging, goal setting, progress tracking, personalized recommendations, and integration with wearable devices or fitness equipment.

**Feature name -**

Workout Analysis

**Feature description -**

The app offers detailed workout analysis tools, including performance metrics, trends, and insights into exercise intensity, duration, and calorie burn. Workout analysis helps users assess the effectiveness of their workouts, identify areas for improvement, and optimize training strategies for better results.

**Userstory title -**

As a user, I want to analyze my workouts so that I can assess my performance and optimize my training strategies.

**Acceptance criteria -**

['Users can view detailed performance metrics for each workout.', 'The app provides trends and insights into workout intensity and duration.', 'Users can track calorie burn and other health metrics.', 'The app offers recommendations based on workout analysis.', 'Users can compare current workouts with past performance.']

**Generated Test Cases:**

## Fitness Tracker App - Workout Analysis Test Cases

**\*\*Test Case 1:\*\*** Verify that users can view detailed performance metrics for each workout.

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

**\*\*Test Case Description:\*\*** This test case ensures that the app accurately displays comprehensive performance metrics for each completed workout, including steps taken, calories burned, distance traveled, heart rate, and other relevant data.

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

- Login to the Fitness Tracker App.
- Select a completed workout from the workout log.
- Verify that detailed performance metrics are displayed for the selected workout.
- Ensure that the data corresponds with actual workout data.

**\*\*Test Case 2:\*\*** Verify that the app provides trends and insights into workout intensity and duration.

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

**\*\*Test Case Description:\*\*** This test case assesses the app's ability to provide valuable insights about workout intensity and duration trends over time.

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

- Track multiple workouts with varying intensity levels.
- Access the workout analysis section of the app.
- Review the provided graphs and trends for intensity and duration.
- Ensure that the displayed trends are accurate and intuitive.

**\*\*Test Case 3:\*\*** Verify that the app accurately tracks calorie burn and other health metrics.

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

**\*\*Test Case Description:\*\*** This test case validates the accuracy of calorie burn and other health metrics recorded in the app.

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

- Enable calorie tracking in the app settings.
- Engage in a structured workout.
- Review the post-workout summary and recorded calorie burn.

- Compare the recorded calorie burn with other health apps or devices.

**\*\*Test Case 4:\*\*** Verify that the app offers recommendations based on workout analysis.

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

**\*\*Test Case Description:\*\*** This test case verifies that the app provides actionable recommendations based on workout analysis, helping users optimize their training strategies.

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

- Track various workouts with different intensities and durations.
- Access the workout analysis section.
- Review the provided recommendations for improvement.
- Ensure that the recommendations align with the user's fitness goals and training needs.

**\*\*Test Case 5:\*\*** Verify that users can compare current workouts with past performance.

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

**\*\*Test Case Description:\*\*** This test case allows users to track their progress and identify improvements by comparing current workouts with past performance.

- Track multiple workouts in the app.
- Access the workout analysis section.
- Review the comparison data for various performance metrics.
- Ensure that the comparison provides valuable insights for tracking progress and identifying areas for improvement.

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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 -**

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

**\*\*1. Verify that the app displays current weather conditions\*\***

\* Test Case ID: FT-WC-1

\* Test Case Description: This test verifies that the app retrieves and displays accurate current weather data for the user's location.

\* Preconditions: User has enabled location services.

\* Test Data: User's current location.

\* Test Steps:

1. Open the app and navigate to the "Weather" section.
2. Verify that the current weather data (temperature, humidity, precipitation, wind speed) is displayed.
3. Check if the location is correctly identified and mapped on a map.

\* Expected Result: The app displays accurate current weather data.

**\*\*2. Verify that users can view weather forecasts for different locations\*\***

\* Test Case ID: FT-WC-2

\* Test Case Description: This test verifies that users can access weather forecasts for other desired locations.

\* Preconditions: User has enabled location services.

\* Test Data: Various cities/regions.

\* Test Steps:

1. Access the "Weather" section of the app.
2. Select the option to view forecasts for other locations.
3. Enter the desired location and tap "Search."
4. Verify that the 5-day weather forecast is displayed.

\* Expected Result: The app provides weather forecasts for the selected location.

**\*\*3. Verify that weather data is updated in real-time\*\***



\* Test Case ID: FT-WC-3

\* Test Case Description: This test verifies that the weather data displayed in the app is updated in real-time and reflects changes in actual weather conditions.

\* Preconditions: User has enabled location services.

\* Test Data: Ongoing weather changes.

\* Test Steps:

1. Open the "Weather" section of the app and note the current temperature.
2. Go outside and expose yourself to varying weather conditions (e.g., changes in temperature, precipitation, wind speed).
3. Monitor the updated weather data in the app.

\* Expected Result: The displayed weather data adapts and reflects the real-time changes in the environment.

\*\*4. Verify that the app offers recommendations based on weather conditions\*\*

\* Test Case ID: FT-WC-4

\* Test Case Description: This test verifies that the app provides relevant recommendations based on the current weather.

\* Preconditions: User has enabled location services.

\* Test Data: Various weather scenarios.

\* Test Steps:

1. Open the "Weather" section of the app.
  2. Note the current weather conditions.
  3. Check the recommendations section for suggestions related to the weather.
- \* Expected Result: The app offers relevant recommendations based on the current weather.

**\*\*5. Verify that users receive weather alerts for extreme conditions\*\***

\* Test Case ID: FT-WC-5

\* Test Case Description: This test verifies that the app sends alerts to users when extreme weather conditions are detected.

\* Preconditions: User has enabled location services and has set alert preferences.

\* Test Data: Specific weather parameters exceeding defined thresholds.

\* Test Steps:

1. Configure weather alerts for specific criteria (e.g., extreme heat, heavy rainfall).
2. Simulate or wait for the defined weather condition to occur.
3. Verify that an alert is received on the user's device.

\* Expected Result: The app alerts the user when predefined weather extremes are detected.

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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-1

**\*\*Test Case Description:\*\*** This test case verifies that users can successfully input their mood, energy levels, and motivation levels for both before and after workouts.

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

1. Login to the app
2. Navigate to the Mood Tracking section
3. Input mood rating, energy level, and motivation level for before and after workout
4. Verify data is saved and displayed in the log

**\*\*Expected Result:\*\*** Data is saved and displayed correctly, indicating successful submission.

**\*\*Test Case 2:\*\*** Verify that the app provides insights into mood and energy trends over time

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

**\*\*Test Case Description:\*\*** This test case confirms that the app generates reports and insights regarding mood and energy trends over time.

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

1. Navigate to the Mood History section
2. Select a time period (e.g., past month, past year)
3. Review the generated report with trends and insights
4. Verify presence of data points and relevant charts

**\*\*Expected Result:\*\*** The report displays comprehensive data and insights on mood and energy trends over the selected period.

**\*\*Test Case 3:\*\*** Verify that the app recommends actions based on mood and energy data

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

**\*\*Test Case Description:\*\*** This test case assesses the app's ability to provide recommendations based on users' mood and energy data.

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

1. Input mood and energy levels on multiple days
2. Review the suggested actions and recommendations
3. Verify that the recommendations align with the input data

**\*\*Expected Result:\*\*** The app provides relevant and personalized recommendations based on logged mood and energy levels.

**\*\*Test Case 4:\*\*** Verify that the app supports journaling for personal reflections

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

**\*\*Test Case Description:\*\*** This test case confirms that users can add personal reflections to their mood tracking entries.

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

1. Log a mood and energy level
2. Click on the journaling button
3. Input a written reflection about the workout
4. Verify that the reflection is saved and displayed

**\*\*Expected Result:\*\*** The app allows users to record personal reflections alongside their mood data.

**\*\*Test Case 5:\*\*** Verify that users can set goals for improving mood and energy levels

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

**\*\*Test Case Description:\*\*** This test case validates the functionality of setting goals related to mood and energy levels.

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

1. Navigate to the Goal Setting section
2. Select the "Improve Mood & Energy" goal
3. Set specific goals for mood, energy, and motivation
4. Review the established goals

**\*\*Expected Result:\*\*** The app allows users to set and track goals for enhancing their 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:\*\* RCH-1**

**\* \*\*Test Case Title:\*\* Verify that users can input and save ingredients and cooking instructions**

**\* \*\*Test Case Description:\*\* Test the functionality of entering and saving ingredients and cooking instructions within a recipe.**

\* \*\*Test Suite:\*\* Recipe Creation

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

\* \*\*Preconditions:\*\* User is logged in, New recipe page is open

\* \*\*Test Data:\*\* Sample recipe with various ingredients and instructions

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

1. Navigate to the recipe creation page
2. Input recipe title and description
3. Add ingredients and quantities
4. Input cooking steps
5. Review and submit the recipe

\* \*\*Postconditions:\*\* Recipe is saved in the user's profile

\* \*\*Expected Result:\*\* The recipe is successfully saved and accessible on the platform.

\*\*Test Case 2: Verify that users can upload photos for their recipes\*\*

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

\* \*\*Test Case Title:\*\* Verify that users can upload photos for their recipes

\* \*\*Test Case Description:\*\* Test the functionality of uploading images for associated recipes.

\* \*\*Test Suite:\*\* Recipe Creation

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

\* \*\*Preconditions:\*\* User has created a recipe

\* \*\*Test Data:\*\* Image files in various formats

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

1. Open the recipe creation page
2. Enter recipe details and ingredients
3. Click the "Upload Photo" button

4. Select desired image file

5. Review the uploaded photo

\* \*\*Postconditions:\*\* Recipe has associated photo

\* \*\*Expected Result:\*\* The recipe is associated with the chosen image.

\*\*Test Case 3: Verify that recipes are saved in the user's profile\*\*

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

\* \*\*Test Case Title:\*\* Verify that recipes are saved in the user's profile

\* \*\*Test Case Description:\*\* Test the functionality of saving recipes within the user's profile.

\* \*\*Test Suite:\*\* Recipe Creation

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

\* \*\*Preconditions:\*\* User has created a recipe

\* \*\*Test Data:\*\* Existing recipe data

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

1. Navigate to the recipe creation page

2. Input recipe details and ingredients

3. Click the "Save Recipe" button

4. Check user profile for saved recipes

\* \*\*Postconditions:\*\* Recipe is saved in user profile

\* \*\*Expected Result:\*\* The recipe is saved in the user's profile and accessible from their recipes list.

\*\*Test Case 4: Verify that recipes are accessible to other users on the platform\*\*

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



\* \*\*Test Case Title:\*\* Verify that recipes are accessible to other users on the platform

\* \*\*Test Case Description:\*\* Test the functionality of displaying saved recipes on the platform for other users.

\* \*\*Test Suite:\*\* Recipe Search and Browse

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

\* \*\*Preconditions:\*\* User has saved a recipe

\* \*\*Test Data:\*\* Saved recipe data

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

1. Login as a different user
2. Access the recipe search page
3. Search for the saved recipe
4. Verify that the recipe is displayed in the results

\* \*\*Postconditions:\*\* Recipe is accessible to other users

\* \*\*Expected Result:\*\* The saved recipe is accessible to other users on the platform.

**\*\*Test Case 5: Verify that users receive a confirmation upon successful recipe submission\*\***

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

\* \*\*Test Case Title:\*\* Verify that users receive a confirmation upon successful recipe submission

\* \*\*Test Case Description:\*\* Test the functionality of providing feedback upon successful recipe submission.

\* \*\*Test Suite:\*\* Recipe Creation

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

\* \*\*Preconditions:\*\* User has completed all recipe information

\* \*\*Test Data:\*\* Sample recipe data

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

1. Complete the recipe creation process

2. Review the confirmation message

3. Verify that the message confirms recipe submission

\* \*\*Postconditions:\*\* Confirmation message is displayed

\* \*\*Expected Result:\*\* A confirmation message is displayed upon successful recipe submission.

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## **Data - 100**

### **Project name -**

Recipe Sharing Platform

### **Project description -**

Build a recipe sharing platform where users can discover, save, and share recipes, cooking tips, and culinary inspiration. The platform should include features like recipe search and browse, user-generated content, ratings and reviews, meal planning, grocery list generation, and social sharing. Users should be able to upload their own recipes, photos, and videos, and engage with other users' content through comments and likes.

### **Feature name -**

Recipe Discovery

### **Feature description -**

The platform offers a robust search functionality that allows users to discover new recipes based on keywords, ingredients, cuisine types, dietary preferences, and more. Users can explore a wide variety of recipes to find inspiration for their next meal.

### **Userstory title -**

As a user, I want to search for recipes using keywords and ingredients so that I can find new recipes to try.

### **Acceptance criteria -**

['Users can search for recipes using keywords and ingredients.', 'Search results are relevant and accurately match the search criteria.', 'Users can filter search results by cuisine type, dietary preferences, and other criteria.', 'Recipes in the search results are accessible and detailed.', 'Users can save search results for future

reference.']

## **Generated Test Cases:**

## Test Cases for Recipe Sharing Platform - Recipe Discovery Feature

**\*\*Test Case 1:\*\*** Verify that users can search for recipes using keywords

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

**\*\*Test Case Description:\*\*** This test case verifies that users can search for recipes using keywords and that the results are relevant to the search terms.

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

- Navigate to the Recipe Search page
- Enter a relevant keyword or ingredient in the search bar
- Verify that the search results list contains recipes containing the keyword
- Check the relevance of results to the search terms

**\*\*Expected Result:\*\*** The search results accurately match the entered keywords.

**\*\*Test Case 2:\*\*** Verify that users can filter search results by cuisine type

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

**\*\*Test Case Description:\*\*** This test case verifies that users can filter search results by cuisine type and that the displayed results match the selected criteria.

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

- Perform a search using relevant keywords
- Select a specific cuisine type from the available filters
- Verify that the search results only include recipes with the selected cuisine type

**\*\*Expected Result:\*\*** The filtered results are limited to the chosen cuisine type.

**\*\*Test Case 3:\*\*** Verify that recipes in the search results are accessible and detailed

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

**\*\*Test Case Description:\*\*** This test case verifies that recipes in the search results are accessible and display comprehensive information.

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

- Choose a random recipe from the search results
- Verify that the recipe title, ingredients, and instructions are clearly displayed
- Check if accompanying images and/or videos are available

**\*\*Expected Result:\*\*** The displayed recipes provide essential information and media.

**\*\*Test Case 4:\*\*** Verify that users can save search results for future reference

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

**\*\*Test Case Description:\*\*** This test case verifies that users can save the results of their searches for future reference.

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

- Perform a search using relevant keywords
- Select the "Save Search" option
- Verify that the saved search results are accessible from the user's saved searches section

**\*\*Expected Result:\*\*** The saved search results are accessible and can be used for future reference.

**\*\*Test Case 5:\*\*** Verify that the search functionality is responsive to different screen sizes

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

**\*\*Test Case Description:\*\*** This test case verifies that the search functionality is responsive and adapts to different screen sizes.

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

- Access the Recipe Search page from different devices with varying screen sizes
- Perform a search using relevant keywords
- Verify that the search results are displayed clearly and efficiently on different screen sizes

**\*\*Expected Result:\*\*** The search functionality is responsive and adapts to different screen sizes, ensuring a consistent user experience.

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