User Stories and Scenarios for Personal Task Manager App

User Stories

1. **User Registration**
   - **Story**: As a new user, I want to register with my personal details so that I can create an account.
   - **Acceptance Criteria**:
     - The user can enter a username, email, and password.
     - The user can confirm their password.
     - The user receives a confirmation message upon successful registration.

2. **User Login**
   - **Story**: As a registered user, I want to log in using my username and password so that I can access my tasks.
   - **Acceptance Criteria**:
     - The user can enter their username and password.
     - The user receives an error message if the login fails.
     - The user is redirected to the dashboard upon successful login.

3. **Password Reset**
   - **Story**: As a user who has forgotten my password, I want to reset it so that I can regain access to my account.
   - **Acceptance Criteria**:
     - The user can request a password reset by entering their email.
     - The user receives an email with a password reset link.
     - The user can set a new password via the provided link.

4. **Create New Task**
   - **Story**: As a user, I want to create a new task with a title, description, due date, and priority level so that I can manage my activities.
   - **Acceptance Criteria**:
     - The user can input the task title, description, due date, and priority level.
     - The user can save the task and see it in the task list.

5. **Edit Existing Task**
   - **Story**: As a user, I want to edit an existing task so that I can update its details.
   - **Acceptance Criteria**:
     - The user can select a task to edit.

- The user can update the task's title, description, due date, and priority level.
- The changes are saved and reflected in the task list.

6. **Delete Task**
   - **Story**: As a user, I want to delete a task so that I can remove tasks that are no longer needed.
   - **Acceptance Criteria**:
     - The user can select a task to delete.
     - The user confirms the deletion.
     - The task is removed from the task list.

7. **Mark Task as Complete/Incomplete**
   - **Story**: As a user, I want to mark tasks as complete or incomplete so that I can keep track of my progress.
   - **Acceptance Criteria**:
     - The user can toggle the completion status of a task.
     - The task's status is updated and displayed accordingly.

8. **Categorize Tasks**
   - **Story**: As a user, I want to categorize my tasks into custom categories so that I can organize them better.
   - **Acceptance Criteria**:
     - The user can create custom categories.
     - The user can assign tasks to these categories.
     - The tasks are displayed under their respective categories.

9. **Receive Reminders**
   - **Story**: As a user, I want to receive reminders for upcoming tasks so that I don't miss any deadlines.
   - **Acceptance Criteria**:
     - The user can set reminder times for tasks.
     - The user receives notifications based on the set reminder times.

10. **View Dashboard**
    - **Story**: As a user, I want to view my tasks in a dashboard with filters for due date, priority, and category so that I can easily manage my tasks.
    - **Acceptance Criteria**:
      - The user can see tasks listed with their details.
      - The user can filter tasks by due date, priority, and category.

11. **View Basic Analytics**

- **Story**: As a user, I want to view analytics about my tasks so that I can understand my productivity.
- **Acceptance Criteria**:
    - The user can see the number of completed tasks.
    - The user can see the number of overdue tasks.
    - The user can see tasks categorized by different categories.

User Scenarios

Scenario 1: Successful User Registration

Given: A new user on the registration page.

When: The user enters a username, email, password, and confirms the password.

Then: The user clicks the "Register" button.

And: The system registers the user and redirects to a login page.

Scenario 2: User Login with Valid Credentials

Given: A registered user on the login page.

When: The user enters their email and password.

Then: The user clicks the "Login" button.

And: The system authenticates the user and redirects them to the dashboard.

Scenario 3: User Login with Invalid Credentials

Given: A registered user on the login page.

When: The user enters an incorrect email or password.

Then: The user clicks the "Login" button.

And: The system displays an error message indicating login failure.

Scenario 4: Password Reset

Given: A user on the login page who has forgotten their password.

When: The user clicks the "Forgot Password" link.

Then: The user enters their email address.

And: The system sends a password reset email to the user.

Scenario 5: Create a New Task

Given: A logged-in user on the dashboard.

When: The user clicks the "Create Task" button.

Then: The user fills in the task title, description, due date, and priority level.

And: The user clicks the "Save" button.

Then: The task is added to the task list on the dashboard.

Scenario 6: Edit an Existing Task

Given: A logged-in user on the dashboard with existing tasks.

When: The user selects a task to edit.

Then: The user updates the task's details.

And: The user clicks the "Save" button.

Then: The task's details are updated in the task list.

Scenario 7: Delete a Task

Given: A logged-in user on the dashboard with existing tasks.

When: The user selects a task to delete.

Then: The user confirms the deletion.

And: The task is removed from the task list.

Scenario 8: Mark Task as Complete

Given: A logged-in user on the dashboard with incomplete tasks.

When: The user marks a task as complete.

Then: The task's status is updated to complete.

Scenario 9: Categorize Tasks

Given: A logged-in user on the dashboard.

When: The user creates a custom category.

Then: The user assigns tasks to this category.

And: The tasks are displayed under the respective category.

Scenario 10: Receive Task Reminders

Given: A logged-in user with tasks that have reminders set.

When: The task's reminder time is reached.

Then: The user receives a notification for the task reminder.

Scenario 11: View Dashboard with Filters

Given: A logged-in user on the dashboard.

When: The user applies filters for due date, priority, or category.

Then: The dashboard updates to display tasks matching the filters.

Scenario 12: View Basic Analytics

Given: A logged-in user on the dashboard.

When: The user navigates to the analytics page.

Then: The user sees the number of completed tasks, overdue tasks, and tasks categorized by different categories.

These user stories and scenarios provide a comprehensive guide for developing and testing the Personal Task Manager App, ensuring that all key functionalities are covered and the user experience is smooth and intuitive.