**Testing Plan with Acceptance Criteria**

**Objective**: Validate all features in Sprint 1 against the defined **acceptance criteria**.

1. Trello/Jira Setup

• **Test**: Verify Trello or Jira is set up properly.

• **Steps**:

1. Open Trello/Jira.

2. Confirm all Sprint 1 tasks and user stories are listed.

3. Check if instructors and team members are invited.

4. Verify the GitHub repository is linked.

• **Acceptance Criteria**:

• *“The project management tool is set up with user stories/tasks, shared with team members, and integrated with GitHub.”*

• **Expected Result**: All tasks are visible, and the board is shared with relevant members.

2. Database Structure

• **Test**: Validate the database structure.

• **Steps**:

1. Open database management software (e.g., MySQL Workbench).

2. Run the database creation script.

3. Confirm all tables, relationships, and data types are correct.

4. Check the data dictionary against the schema.

• **Acceptance Criteria**:

• *“A working database schema is created and matches the provided schema. The data dictionary must include all required fields, data types, and relationships.”*

• **Expected Result**: The database structure matches the schema, and the script executes without errors.

3. Dashboard

• **Test**: Verify dashboard accessibility and design.

• **Steps**:

1. Open the dashboard in the browser.

2. Navigate through each section (Users, Items, etc.).

3. Confirm the UI adheres to standards (e.g., responsive layout, clear navigation).

• **Acceptance Criteria**:

• *“A simple dashboard is accessible via a web browser and displays links to all available functionality.”*

• **Expected Result**: All features are accessible, and the design meets UX standards.

4. Login

• **Test**: Validate login functionality.

• **Steps**:

1. Enter valid credentials and log in.

2. Attempt login with incorrect credentials.

3. Try logging in with a locked or inactive user.

• **Acceptance Criteria**:

• *“A login page allows valid users to access the system, and invalid or inactive users are denied access with an error message.”*

• **Expected Result**: Users log in successfully with valid credentials. Locked/inactive users see an appropriate error message.

5. Logout

• **Test**: Verify logout functionality.

• **Steps**:

1. Log in as a user.

2. Click the logout button and verify redirection to the login page.

3. Wait for the inactivity timeout and check for automatic logout.

• **Acceptance Criteria**:

• *“Users can log out of the system, and their session is terminated.”*

• **Expected Result**: Logout is successful, and session data is cleared.

6. Add User

• **Test**: Add a new user.

• **Steps**:

1. Go to the “Add User” section.

2. Fill out the form with valid data and submit.

3. Check the database to confirm the new user was added.

• **Acceptance Criteria**:

• *“Users can add a new user to the system by filling out the required fields, and the user is saved in the database.”*

• **Expected Result**: The new user appears in the user list with the default password.

7. Edit User

• **Test**: Modify user details.

• **Steps**:

1. Select an existing user.

2. Update fields (e.g., password, username) and save changes.

3. Verify the updates in the database and UI.

• **Acceptance Criteria**:

• *“Users can edit existing user details, and the changes are updated in the database.”*

• **Expected Result**: User details update correctly in both the UI and database.

8. Delete User

• **Test**: Deactivate a user.

• **Steps**:

1. Select a user and deactivate them.

2. Attempt to log in with the deactivated account.

• **Acceptance Criteria**:

• *“Users can deactivate an account, which prevents login but does not delete the record from the database.”*

• **Expected Result**: Deactivated users cannot log in but remain in the database.

9. View Users

• **Test**: Display a list of users.

• **Steps**:

1. Navigate to the “Users” section.

2. Verify that user details (except passwords) are visible.

• **Acceptance Criteria**:

• *“The system displays a list of all users, including their roles, except passwords.”*

• **Expected Result**: All active and inactive users are displayed correctly.

10. Set Permissions

• **Test**: Update user permissions.

• **Steps**:

1. Select a user and change their roles.

2. Save changes and verify permissions in the database.

• **Acceptance Criteria**:

• *“Administrators can update user permissions by assigning or removing roles.”*

• **Expected Result**: User roles are updated accurately.

11. Change Password

• **Test**: Test password change functionality.

• **Steps**:

1. Log in as a user.

2. Change the password to a new one.

3. Log out and log in with the new password.

• **Acceptance Criteria**:

• *“Users can change their password, and it is stored securely in the database.”*

• **Expected Result**: Password updates successfully and meets validation rules.

12. Edit Item

• **Test**: Update item notes and image.

• **Steps**:

1. Select an item and modify its notes and description.

2. Upload an image for the item.

3. Verify the changes in the UI and database.

• **Acceptance Criteria**:

• *“Users can edit item notes and upload an image for each item. The notes and image are saved to the database.”*

• **Expected Result**: Notes and image update correctly, and the image is saved to the server.