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| **Test Case ID** |  | **Test Case Name** | **Objective** | **Preconditions** | **Inputs** | **Test Data** | **Expected Results** | **Actual Results** | **Pass**  **Fail** | **Comment** |
| TC001 |  | Verify Login Functionality | To ensure that users can successfully log in to the system using valid credentials | User must have a registered account | 1. Open the application login page. 2. Enter valid username and password. 3. Click on the 'Login' button | Username: testuser  Password: password123 | User should be logged in and directed to the home page | User is successfully logged in and redirected to the home page | Pass | Ensure that the login process is fast and responsive.  Verify that the appropriate error message is displayed for invalid credentials.  Verify that the "Forgot Password" and "Remember Me" functionalities, if present, are working as expected.  Ensure that the password field masks the entered characters for security purposes.  Test for cases where the username or password field is left blank. |
|  | TC001.1 | Verify Login Failure with Invalid Credentials | To verify that users cannot log in with invalid credentials and appropriate error messages are displayed. | The login page is accessible. | 1. Launch the application. 2. Navigate to the login page. 3. Enter valid username. 4. Enter valid password. 5. Click on the "Login" button. 6. Verify if the user is logged in successfully. 7. Note any error messages or unexpected behavior. | Username: [invalid username]  Password: [invalid password] | The user should be logged in successfully, and the application should redirect to the dashboard or home page.  No error messages or unexpected behavior should occur during the login process. | After entering valid credentials and clicking on the "Login" button, the user is not logged in successfully.  An error message "Invalid username or password" is displayed.  The application does not redirect to the dashboard or home page. | Fail | This test case fails as the login functionality is not working as expected. Further investigation is required to identify the root cause of the failure and implement the necessary fixes. |
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| TC002 |  | Verify Creation of a New Project | To ensure that a new project can be created successfully with all required attributes | User is logged in to the system | Navigate to the "Create New Project" page.  Enter valid data for Project Name, Project Code, Start Date, End Date, Number of Validity Period, and Project Status.  Click on the "Create" button. | Project Name: NewProject  Project Code: PRJ001  Start Date: [Valid start date]  End Date: [Valid end date]  Number of Validity Period: 12  Project Status: Active | A new project with the provided details should be created successfully. | The new project is created without any errors, and the provided details are accurately saved. | Pass |  |