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| **Test Case ID** | **Test Case Sub ID** | **Test Case Name** | **Objective** | **Preconditions** | **Inputs** | **Test Data** | **Expected Results** | **Actual Results** | **Pass**  **Fail** | **Comment** |
| 01 |  | 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. |
|  | 1.1 | 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. |
|  | 1.2 | Login with Empty Username and Incorrect Password | To verify that the login system correctly handles the scenario where the username field is left empty and an incorrect password is entered, ensuring that appropriate error messages are displayed and the user is not allowed to log in. | The login form is available and accessible.  The system should have a known user with valid credentials. | 1. Open the login page of the application. 2. Leave the "Username" field empty. 3. Enter an incorrect password in the "Password" field. 4. Click on the "Login" or "Submit" button. | Username: (empty)  Password: Incorrect Password123 | The system should display an error message indicating that the username field is required.  The login attempt should fail, and the user should not be logged in. | Error message displayed as expected.  Login attempt failed, and the user is not logged in. | Fail | Ensure the error message is clear and user-friendly, such as "Username is required."  Check that the form does not allow submission without a username.  Validate that no user-specific information is revealed in the error message to maintain security and privacy. |
|  | 1.3 | Login with Incorrect Username and Empty Password | To verify that the login system correctly handles the scenario where an incorrect username is entered and the password field is left empty, ensuring that appropriate error messages are displayed and the user is not allowed to log in. | The login form is available and accessible.  The system should have a known user with valid credentials. | 1. Open the login page of the application. 2. Enter an incorrect username in the "Username" field. 3. Leave the "Password" field empty. 4. Click on the "Login" or "Submit" button. | Username: Incorrect Username  Password: (empty) | The system should display an error message indicating that the password field is required.  The login attempt should fail, and the user should not be logged in. | Error message displayed as expected.  Login attempt failed, and the user is not logged in. | Fail | Ensure the error message is clear and user-friendly, such as "Password is required."  Check that the form does not allow submission without a password.  Validate that no user-specific information is revealed in the error message to maintain security and privacy.  Consider testing across different devices and browsers to ensure consistent behavior. |
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