Test Cases for login

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| Test Case ID | Description | Preconditions | Test Steps | Expected Results | Test Data | Priority |
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| Test Case ID | Test Case Description | Preconditions | Test Steps | Expected Results | Test Data | Priority |
| TC\_Login\_001 | Successful login with valid credentials | Login page is accessible | 1. Enter valid username. 2. Enter valid password. 3. Click 'Login' button. | User is logged in successfully and redirected to the home page. | Username: testuser, Password: password123 | High |
| TC\_Login\_002 | Unsuccessful login with invalid credentials | Login page is accessible | 1. Enter invalid username. 2. Enter invalid password. 3. Click 'Login' button. | Error message is displayed, indicating incorrect username or password. User remains on the login page. | Username: wronguser, Password: wrongpassword | High |
| TC\_Login\_003 | Unsuccessful login with empty username field | Login page is accessible | 1. Leave username field empty. 2. Enter valid password. 3. Click 'Login' button. | Error message is displayed, indicating username field is required. | Username: , Password: password123 | High |
| TC\_Login\_004 | Unsuccessful login with empty password field | Login page is accessible | 1. Enter valid username. 2. Leave password field empty. 3. Click 'Login' button. | Error message is displayed, indicating password field is required. | Username: testuser, Password: | High |
| TC\_Login\_005 | Login button functionality | Login page is accessible | 1. Enter valid username and password. 2. Click 'Login' button. | User is logged in successfully and redirected to the home page. | Username: testuser, Password: password123 | High |
| TC\_Login\_006 | UI/UX - Responsive design on different screen sizes | Login page is accessible | 1. Access login page on different screen sizes (desktop, tablet, mobile). | Login page renders correctly and all elements are displayed appropriately on all screen sizes. | N/A | Medium |
| TC\_Login\_007 | UI/UX - Correct placement of form elements | Login page is accessible | 1. Verify the placement of username, password fields, and login button. | All form elements are correctly positioned and visually appealing. | N/A | Medium |
| TC\_Login\_008 | UI/UX - Clear and concise error messages | Login page is accessible | 1. Enter invalid credentials. 2. Observe error message. | Error message is clear, concise, and informative. | Username: wronguser, Password: wrongpassword | Medium |
| TC\_Login\_009 | Error handling - Multiple login attempts | Login page is accessible | 1. Enter invalid credentials multiple times. | Appropriate error message is displayed after each attempt. No account lockouts without exceeding defined limits (if any). | Username: wronguser, Password: wrongpassword (multiple attempts) | Medium |
| TC\_Login\_010 | Edge case - Special characters in username/password | Login page is accessible | 1. Enter username/password with special characters (e.g., !@#$%^&\*). | System handles special characters appropriately (allows or rejects based on defined policy). | Username: test!user, Password: pass123$ | Medium |
| TC\_Login\_011 | Edge case - Long username/password | Login page is accessible | 1. Enter extremely long username/password exceeding defined length limits. | System handles long inputs appropriately (rejects if exceeding limits, displays appropriate error message). | Username: extremelylongusernameexceedingdefinedlimits, Password: extremelylongpasswordalsoexceedinglimits | Low |
| TC\_Login\_012 | Edge case - SQL injection attempt (Security) | Login page is accessible | 1. Attempt to inject SQL code into username/password fields. | System prevents SQL injection; no database compromise. | Username: ';DROP TABLE users;--', Password: ' ;DROP TABLE users;--' | High |
| TC\_Login\_013 | Remember Me functionality (if applicable) | Login page is accessible | 1. Check "Remember Me" checkbox. 2. Login with valid credentials. 3. Close browser. 4. Reopen browser and check if automatically logged in. | User is automatically logged in. | Username: testuser, Password: password123 | Medium |
| TC\_Login\_014 | Forgot Password functionality (if applicable) | Login page is accessible | 1. Click "Forgot Password" link. 2. Follow the password reset process. | User receives instructions to reset password. | N/A | Medium |
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