Test Cases for Login

Generated on: 2025-03-31 15:19:03

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| Test Case ID | Description | Preconditions | Test Steps | Expected Results | Test Data | Priority |
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|  | TC\_Login\_001 | Successful login with valid credentials | User is on the Login page. | 1. Enter valid username. 2. Enter valid password. 3. Click "Login" button. | User is redirected to the home page/dashboard. A welcome message may be displayed. | Username: testuser, Password: password123 |
|  | TC\_Login\_002 | Unsuccessful login with invalid credentials | User is on the Login page. | 1. Enter invalid username. 2. Enter invalid password. 3. Click "Login" button. | Error message is displayed (e.g., "Invalid username or password"). User remains on the Login page. | Username: wronguser, Password: wrongpassword |
|  | TC\_Login\_003 | Unsuccessful login with blank username | User is on the Login page. | 1. Leave username field blank. 2. Enter valid password. 3. Click "Login" button. | Error message is displayed (e.g., "Username is required"). User remains on the Login page. | Username: , Password: password123 |
|  | TC\_Login\_004 | Unsuccessful login with blank password | User is on the Login page. | 1. Enter valid username. 2. Leave password field blank. 3. Click "Login" button. | Error message is displayed (e.g., "Password is required"). User remains on the Login page. | Username: testuser, Password: |
|  | TC\_Login\_005 | Login with username containing spaces | User is on the Login page. | 1. Enter username with leading/trailing spaces. 2. Enter valid password. 3. Click "Login" button. | Successful login OR appropriate error message displayed indicating spaces are not allowed. | Username: test user , Password: password123 |
|  | TC\_Login\_006 | Login with password containing special characters | User is on the Login page. | 1. Enter valid username. 2. Enter password with special characters (!@#$%^&\*). 3. Click "Login" button. | Successful login (if allowed) OR appropriate error message if special characters are not allowed. | Username: testuser, Password: P@$$wOrd! |
|  | TC\_Login\_007 | Login button functionality | User is on the Login page. | 1. Enter valid username and password. 2. Press Enter key instead of clicking the button. | User is redirected to the home page/dashboard. | Username: testuser, Password: password123 |
|  | TC\_Login\_008 | Remember Me functionality | User is on the Login page. | 1. Check "Remember Me" checkbox. 2. Enter valid username and password. 3. Click "Login" button. 4. Close and reopen the browser. | User is automatically logged in. | Username: testuser, Password: password123 |
|  | TC\_Login\_009 | Forgot Password functionality | User is on the Login page. | 1. Click "Forgot Password" link. | User is redirected to the password reset page. |  |
|  | TC\_Login\_010 | UI/UX - Visual appeal and layout | User is on the Login page. | 1. Observe the overall layout, button placement, font sizes, and color scheme. | Login page is visually appealing, user-friendly, and easy to navigate. All elements are correctly displayed and aligned. |  |
|  | TC\_Login\_011 | UI/UX - Accessibility (Screen Reader) | User is on the Login page. | 1. Use a screen reader to navigate the login page. | All elements are correctly announced by the screen reader. Appropriate labels are present. |  |
|  | TC\_Login\_012 | Error message clarity | User is on the Login page. | 1. Enter invalid credentials. 2. Observe the error message. | Error message is clear, concise, and provides helpful information on how to correct the error. | Username: invalid, Password: invalid |
|  | TC\_Login\_013 | Input field length limitations | User is on the Login page. | 1. Attempt to enter an excessively long username/password. | System handles the input appropriately; truncates input or displays an error. | Username: ExcessivelyLongUsername..., Password: ExcessivelyLongPassword... |
|  | TC\_Login\_014 | Login with special characters in username (allowed) | User is on the Login page. | 1. Enter username with allowed special characters. 2. Enter a valid password. 3. Click login. | Successful login. | Username: test.user, Password: password123 |