| ID | Test Scenario | Preconditions | Test Steps | Test Data | Expected Result | Priority |
|---|---|---|---|---|---|---|
| TC_01 | Valid Login (Positive) | User is registered and on login page | 1. Open login page2. Enter valid username3. E | User: Admin Pass: admin123 | User is logged in successfully | High |
| TC_02 | Invalid Password | User is on login page | 1. Enter valid username2. Enter invalid passw | User: Admin Pass: wrong123 | Error message displayed: "Invalid credentials" | Medium |
| TC_03 | Invalid Username | User is on login page | 1. Enter invalid username2. Enter valid passw | User: wrong@test.comPass: admin12 | Error message displayed | Medium |
| TC_04 | Empty Username & Password | User is on login page | 1. Leave username empty2. Leave password e | N/A | Validation messages displayed for required fiel | Medium |
| TC_05 | Empty Password Only | User is on login page | 1. Enter valid username2. Leave password em | User: Admin | Password required validation message display | Medium |
| TC_06 | Password Less Than Minimum Length | User is on login page | 1. Enter valid username2. Enter short passwo | User: Admin Pass: 123 | Password length validation error displayed | Low |
| TC_07 | Password Exceeds Maximum Length | User is on login page | 1. Enter valid username2. Enter very long pass | User:Admin Pass: 50+ characters | Validation error displayed | Low |
| TC_08 | SQL Injection Attempt (Security) | User is on login page | 1. Enter SQL injection string in username2. En | User: ' OR '1'='1Pass: Test@123 | Login denied and system remains secure | High |
| TC_09 | Multiple Failed Login Attempts | User exists | 1. Enter wrong password 5 times2. Try to login | Wrong password repeatedly | Account locked or warning message displayed | High |
| TC_10 | Password Masking (UI) | User is on login page | 1. Type password in password field | Pass: Test@123 | Password characters are hidden (●●●●) | Medium |
| TC_11 | Login Button Disabled When Fields Emp | User is on login page | 1. Leave username and password empty | N/A | Login button is disabled or validation shown | Low |
| TC_12 | Error Message Clarity (UX) | Invalid login attempt | 1. Perform invalid login | N/A | Error message is clear, readable, and user-frie | Low |