**Login System Test Plan - Sample**

**Overview**

This is a sample test plan for the Login System. It includes test cases designed to validate whether the system meets the functional requirement:

**REQ-001**  
*"The system must allow valid users to log in using their email and password. Invalid login attempts must be rejected with a clear error message."*

**Test Cases**

| **Test Case ID** | **Requirement ID** | **Test Title** | **Objective** | **Preconditions** | **Test Steps** | **Expected Result** | **Priority** | **Owner** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TC-001 | REQ-001 | Valid login | Verify login succeeds for valid user credentials | User has valid account | 1. Enter valid email 2. Enter valid password 3. Click login | User is successfully logged in | High | QA Team |
| TC-002 | REQ-001 | Invalid email id and/or password | Verify login fails with incorrect email id and/or password | User has valid account | 1. Enter valid/invalid email 2. Enter correct/ wrong password 3. Click login | Error: “Invalid username or password” | High | QA Team |
| TC-003 | REQ-001 | Invalid email format | Verify login fails for improperly formatted email | None | 1. Enter malformed email 2. Enter any password 3. Click login | Error: “Invalid email format” | Medium | QA Team |
| TC-004 | REQ-001 | Blank fields | Verify login fails when email and/or password fields are blank | None | 1. Leave email and/or password blank 2. Click login | Error: “Email and password cannot be blank” | High | QA Team |
| TC-005 | REQ-001 | Case sensitivity | Verify password field is case-sensitive | User has known password with case | 1. Enter valid email 2. Enter password in wrong case 3. Click login | Error: “Invalid username or password” | Medium | QA Team |
| TC-006 | REQ-001 | Lock system | Verify system locked out the user for 30 minutes after 5 consecutive failed attempts | User has access to the registered email account | 1. Enter valid email  2. Enter incorrect password  3. Click login  4. Repeat the steps for 4 more times | Error: Too many failed attempts, wait 30 minutes to try again | Medium | QA Team |

**Traceability Matrix**

| **Requirement ID** | **Requirement Description** | **Test Case ID** | **Test Case Description** | **Status** |
| --- | --- | --- | --- | --- |
| REQ-001 | Login and error handling logic | TC-001 | Valid login using credentials | Not started |
| REQ-001 | Login and error handling logic | TC-002 | Invalid password | Not started |
| REQ-001 | Login and error handling logic | TC-003 | Invalid email format | Not started |
| REQ-001 | Login and error handling logic | TC-004 | Blank fields | Not started |
| REQ-001 | Login and error handling logic | TC-005 | Case sensitivity | Not started |
| REQ-001 | Login and error handling logic | TC-006 | Locked system for too much failed attempts | Not started |