

Test Case

A sample of functional test cases designed for the Authentication Module. This suite demonstrates Positive Testing (Valid Credentials), Negative Testing (Invalid Password), and Input Validation (Empty Fields).

Key Validations:

- Verifying API response status (200 OK vs 401 Unauthorized).
- Ensuring correct JWT token generation upon success.
- Validating UI error messages for better user experience.

Executed on Swag Labs (SauceDemo) environment to practice realistic e-commerce authentication flows.

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| Test Case ID | TC-AUTH-001 |
| Scenario | Verify successful login with valid credentials |
| Test Steps | 1. Enter valid username. 2. Enter valid password. 3. Click "Login" button. |
| Test Data | User: standard_user Pass: secret_sauce |
| Expected Result | 1. System returns API Status 200. 2. User receives access token (JWT). 3. Redirects to Dashboard . |
| Status | PASS |

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| Test Case ID | TC-AUTH-003 |
| Scenario | Verify login fails with correct username but wrong password |
| Test Steps | 1. Enter registered username. 2. Enter incorrect password. 3. Click "Login" button. |
| Test Data | User: invalid_user Pass: wrong_pass |
| Expected Result | 1. System returns API Status 401 (Unauthorized). 2. Error message displayed. 3. User remains on Login page. |
| Status | PASS |

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| Test Case ID | TC-AUTH-007 |
| Scenario | Verify login fails when input fields are empty |
| Test Steps | 1. Leave username field empty. 2. Leave password field empty. 3. Click "Login" button. |
| Test Data | User: [Blank] Pass: [Blank] |
| Expected Result | 1. System validates required fields. 2. Warning message " Username is required " is displayed. |
| Status | PASS |