

TEST PLAN

1. Introduction

This test plan covers the Login and Add to Cart functionalities of the Swag Labs web application.

The objective is to ensure that the users are able to successfully login and add/remove products from the cart.

2. Scope of Testing

In Scope: Login functionality, Add to Cart functionality

Out of scope: Checkout, Logout etc.

3. Test Objectives

- Validate login authentication with valid credentials.
- Validate that login fails with invalid credentials.
- Ensure UI and error messages display correctly.
- Validate adding a product to the cart.
- Validate adding multiple products to the cart.
- Validate removing the product from the cart.
- Validate removing multiple products from the cart.
- Verify if the Add to Cart button updates correctly
- Confirm state is correct after page refresh and after login/logout.

4. Test Approach

Methodologies: Automated testing.

Types of testing: Functional, Security, Usability, Positive and negative testing, UI testing.

Tools used: Cypress, VS Code.

5. Test Schedule: ...

6. Test Environment:

Hardware/Software: Windows 11, Chrome version x

Test environment: <https://www.saucedemo.com/>

7. Entry/ Exit Criteria:

Entry:

- Feature development is 100% complete and deployed to the QA environment.

Exit:

- 95% of the test cases have passed.
- No critical or major bugs remain open.
- All defects have been documented and triaged.

TEST CASES

Test Data

- Valid Credentials:

Accepted usernames:

standard_user

locked_out_user

problem_user

performance_glitch_user

error_user

visual_user

Password for all users:

secret_sauce

- Invalid Credentials:

Wrong username

Wrong password

Empty fields

Login

TC-01: Login with valid credentials

Steps:

1. Navigate to the login page.
2. Input a valid user into the username field
3. Input a valid password into the password field
3. Click on the login button

Test Data:

Username:

standard_user

Password: secret_sauce

Expected result:

The user is successfully logged in and redirected to the Products page.

TC-02: Login with invalid credentials

Steps:

1. Navigate to the login page.
2. Input an invalid user into the username field
3. Input an invalid password into the password field
3. Click on the login button

Test Data:

Username: wrong_user

Password: wrong_pass

Expected result:

The user remains on the login page

The error message “Epic sadface: Username and password do not match any user in this service” is displayed below the login fields

The input fields are highlighted in red and x icon is displayed in both of them.

TC-03: Login with invalid username

TC-04: Login with invalid password

TC-05: Login attempt with empty fields (both/one of them)

TC-06: Login attempt for locked out user

TC-07: Login network failure

TC-08: Login using special characters

TC-09: Login attempt with uppercase/lowercase

TC-10: Login after multiple failed attempts

TC-11: check password masking

TC-12: Validate login on different screen sizes/browsers

TC-13: Validate session timeout

TC-14: Validate user remains logged in when opening a new tab

Add to Cart

TC-01: Add single product to cart

Preconditions:

The user is logged in with valid credentials and on the Products page.

Steps:

1. The user clicks on the Add to Cart button of a product.

Expected result:

1. The product is added to the cart.
 2. The icon number displayed on the cart is updated.
 3. *Add to cart* button changes to *Remove*.
2. The user navigates to the cart

Expected result:

The product is displayed in the cart with the correct details and quantity.

No extra products have been added.

TC-02: Remove product from the cart

Preconditions:

The user is logged in with valid credentials and on the Products page.

There is minimum one product added to the cart.

Steps:

1. The user clicks on the Remove button for one of the added products,

Expected result:

1. The product is removed from the cart.
2. The icon number displayed on the cart is updated.
3. The *Remove* button changes to *Add to cart*.
4. The product is removed from the cart.

TC-03: Add multiple products to the cart

TC-04: Remove multiple products

TC-05: Add and remove a product multiple times

TC-06: Add one product and remove another one

TC-07: Add to cart returns delayed response

TC-08: Add to cart/Remove fails due to API/ Network error

TC-09: Verify button styling.

TC-10: Remove product from the shopping cart.

TC-11: Add product to cart after timeout.

TC-12: Performance testing with multiple pets.

API TEST PLAN

1. POST /pet

Test Cases:

- TC-01: Add a valid pet.
- TC-02: Add a pet with missing id
- TC-03: Add a pet with missing name
- TC-04: Add a pet with invalid status
- TC-05: Post an empty payload
- TC-06: Post an invalid payload
- TC-07: Post payload with empty strings
- TC-08: Post payload with multiple tags/photoURLs
- TC-09: Post a payload with multiple pets
- TC-10: Post payload with existing ID.
- TC-11: Post payload with long strings
- TC-12: Post payload with category/tags empty/duplicated
- TC-13: Send request with invalid token

2. GET /pet/{petId}

- TC-01: Get pet with existing ID
- TC-02: Get pet with non-existent ID

TC-03: Get pet after deletion

TC-04: Get pet while updating status

TC-05: Get the same pet in parallel using multiple requests

TC-06: Get pet containing bigger data

TC-07: Get multiple pets at the same time