

Task 1 : Test Scenario Documentation

Test Plan Document

Test Plan Title : Fuctional Testing for Web Application.

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1. Introduction

This test plan outlines the testing strategy for the SauceDemo application, focusing on user login, product filtering, cart operations, and checkout functionalities.

- 1) Homepage Load Verification after Login
- 2) Product Filtering
- 3) Cart Operations
- 4) Checkout Process

2. Objectives and Tasks:

Objectives: Validate user login functionality.

Ensure product filtering works correctly.

Verify cart operations function as expected.

Confirm successful checkout process.

Tasks: Execute functional and regression tests.

Document test results and report defects.

3. Scope In Scope: User login and authentication.

Product filtering by price. Adding/removing products from the cart. Checkout process validation.

Out of Scope: Performance and load testing. Cross-browser compatibility testing.

4. Testing Strategy Test Levels: Unit Testing, Integration Testing, System Testing, User Acceptance Testing (UAT)

Testing Types: Functional Testing, Regression Testing

5. Test Schedule:

Activity	Start Date	End Date
Test Planning	2025-04-17	2025-04-18
Test Execution	2025-04-19	2025-04-21
Defect Reporting	2025-04-22	2025-04-23
Test Closure	2025-04-24	2025-04-25

6. Features to Be Tested: User login with valid and invalid credentials.

Product filtering by price (low to high, high to low).

Adding/removing products from the cart.

Checkout process with valid user information.

7. Features Not to Be Tested : Performance testing.

Cross-browser compatibility.

8. Resources/Roles & Responsibilities:

Role	Responsibility
Test Manager	Oversee testing activities and resource allocation.
Test Engineer	Execute test cases and report defects.
Developer	Fix reported defects and provide support.
Project Manager	Approve test plan and schedule.

9. Environment Requirements:

Hardware: Windows 10 or MacOS. Minimum 8 GB RAM. Internet connection.

Software: Google Chrome or Mozilla Firefox. Selenium WebDriver. TestNG framework.

10. Test Data:

Test Case ID	Description	Test Data	Expected Result
TC_Login_01	Valid login	Username: standard_user, Password: secret_sauce	Homepage loads successfully.
TC_Login_02	Invalid login (wrong password)	Username: standard_user, Password: wrong_password	Error message displayed.
TC_Filter_01	Filter products by price (low to high)	N/A	Products displayed in ascending order of price.
TC_Filter_02	Filter products by price (high to low)	N/A	Products displayed in descending order of price.
TC_Cart_01	Add product to cart	Product: Sauce Labs Backpack	Product added to cart.
TC_Cart_02	Remove product from cart	Product: Sauce Labs Backpack	Product removed from cart.
TC_Checkout_01	Complete checkout process	First Name: John, Last Name: Doe, Postal Code: 12345	Order confirmation message displayed.