Assignment Submission: Manual & Automation Testing

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Demo Website: https://www.saucedemo.com

Part 1 - Manual Testing

Test Plan Overview

Objective:

To perform functional, UI/UX, and negative testing for the core user flows on SauceDemo.

Scope:

- Login Functionality

- Product Listing and Details

- Add to Cart

- Checkout Flow

- Logout

Tools Used:
Browser (Chrome), Google Sheets, Screenshot Tool (Lightshot).

Testing Types Included:

- Functional Testing

- UI/UX Testing

- Negative Testing

- Edge Case Scenarios

Test Cases Sheet

Go to the link - 🟩 Test Cases Sheet   OR you can go through below image.

|	A	B	C	D	E	F
1			**Test Cases Sheet (Summary)**			
2	Test Cases ID	Scenario	Steps	Expected Result	Actual Result	Status
3	TC001	Valid Login	Enter valid username and password and click Login	User is logged in and redirected to home	As Expected	Pass
4	TC002	Add Item to Cart	Click on "Add to Cart" for a product	Item is added and cart icon updates	As Expected	Pass
5	TC003	Checkout Process	Proceed to checkout after adding product	Able to complete purchase	As Expected	Pass
6	TC004	Invalid Login	Enter incorrect username/password	Error message displayed	As Expected	Pass
7	TC005	Empty Cart Checkout	Try to checkout with no items in cart	Checkout not allowed	As Expected	Pass
8						

Bug Report (3–5 issues)

Go to the link - 🟩 Bug Report   OR you can go through below image.

Bug Report (3–5 issues)

Bug ID	Issue Summary	Steps to Reproduce	Severity	Screenshot	Notes
BUG001	UI not responsive on mobile	Open site on phone, zoom out > Layout breaks	Medium	Attached	Needs responsive CSS
BUG002	No error on blank password	Submit form with blank password	Low	Attached	Validation missing
BUG003	Cart not cleared after logout	Login > Add item > Logout > Login again > Cart persists	High	Attached	Session bug?

Screenshots of issues -

BUG001 screenshot **-** In mobile there is unexpected space before the price of the item which makes it unresponsive.
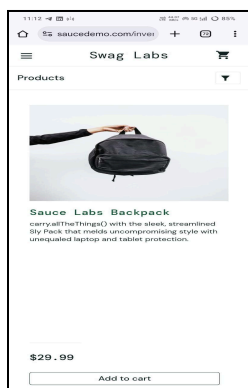
BUG003 screenshot -
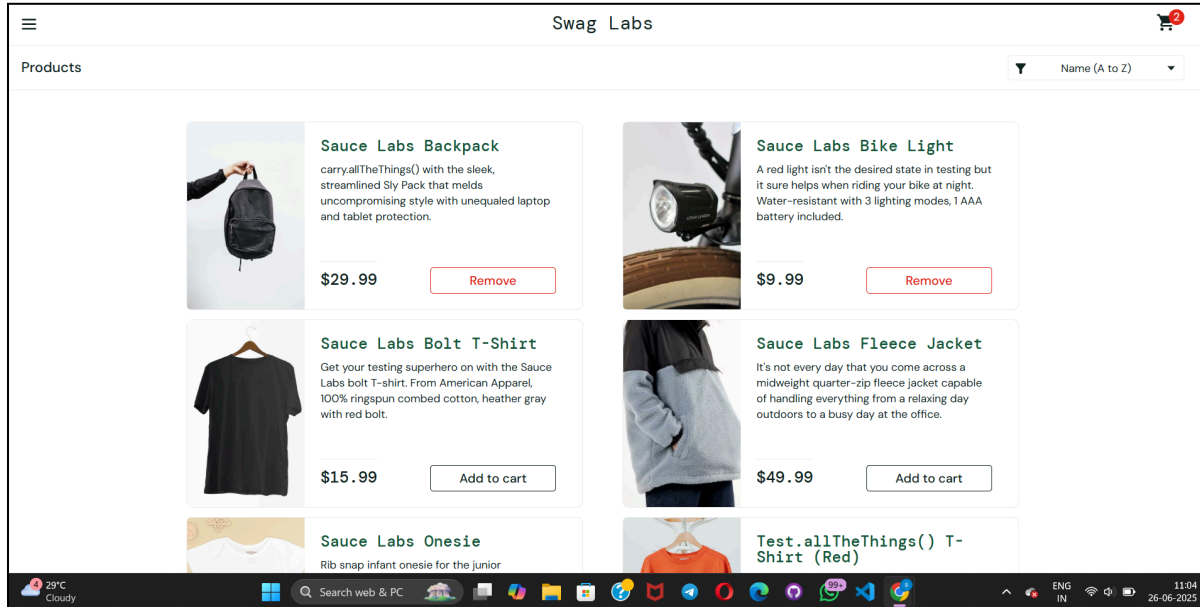
Part 2 - Automation Testing

Automated Scenarios Covered:

1. Login with valid credentials

2. Add product to cart

3. Checkout flow completion

Tools Used:

- **Framework:** Selenium with Python

- **Editor:** VS Code

- **Repo:** https://github.com/SuyogPardhi/Assignment_Automation_Testing.git

- **BrowserDriver:** ChromeDriver

Deliverables:

- **GitHub Repository:**

  https://github.com/SuyogPardhi/Assignment_Automation_Testing.git

  - Contains `login_test.py`, `add_to_cart_test.py`, `checkout_test.py`
  - Includes `README.md` with clear setup/run instructions

- **Demo Video :**

  See it by clicking it - 🎬 Running_TestScripts.mp4 (Walkthrough of automated test script execution with all 3 flows passing.)

- **Write-Up (Challenges & Learnings):**

  During automation, one of the main challenges was ensuring stable element locators due to dynamic IDs/classes. To handle this, I used more robust XPath strategies and added `WebDriverWait` for asynchronous page loads. In a real-world scenario, maintaining page object models and abstracting reusable methods would greatly improve maintainability.

  What could be improved:

  - Implement reporting (like Allure)
  - Add cross-browser testing
  - Include negative test cases for robustness

Use of ChatGPT (AI Tool Explanation)

I used ChatGPT to brainstorm and structure my approach for both manual and automated parts of this assignment. It helped me verify best practices (like bug reporting format and XPath strategies in Selenium). However, all test cases, scripts, and documentation were created and written manually by me based on personal understanding and execution.