### **Web UI Testing Documentation**

## **Objective**

To automate and validate core functionalities of a web-based e-commerce application using Selenium WebDriver and Python (with Pytest). This project tests login, homepage navigation, and shopping cart features.

## **Tools & Technologies Used**

- Python
- Selenium WebDriver
- Pytest
- WebDriver Manager
- Page Object Model (POM)
- ChromeDriver

## **Project Structure**

```
project_root/

test/

test_main.py

pom/

page/

login_page.py

home_page.py

cart_page.py
```

#### **Test Workflow Overview**

- 1. Login Tests
- 2. Home Page Navigation
- 3. Cart Functionality

### **Test Cases Breakdown**

```
test_login:
```

- Checks multiple login scenarios.

## test home:

- Tests menu, cart, and sort actions.

#### test cart:

- Adds/removes items and completes checkout.

#### **Test Cases**

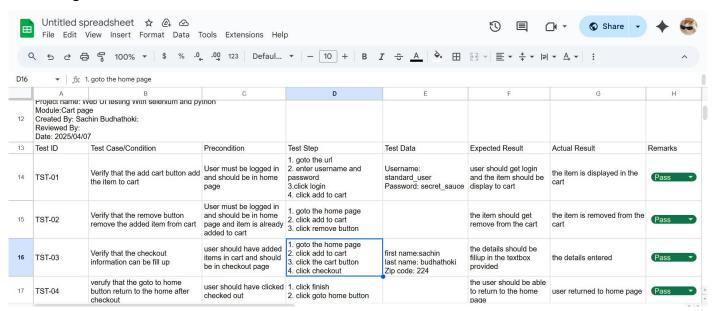
## 1. Login Page

	Α	В	C	D •	E	F	G	Н
1	Project name: Web UI testing With selenium and python Module:Login page Created By: Sachin Budhathoki: Reviewed By: Date: 2025/04/07			URL: https://www.saucedemo.com				
2	Test ID	Test Case/Condition	Precondition	Test Step	Test Data	Expected Result	Actual Result	Remarks
3	TST-01	Verify login succeds when entered valid username and password	User must be in login page	goto the url     enter username and     password     sclick login	Username: problem_user Password: secret_sauce	user should be able to login and home page should appear	user logged in and home page appeared	Pass
4	TST-02	Verify login fails when entered invalid username and password	User should not get log in and a message should appear	goto the url     enter username and     password     sclick login	Username: visual Password: secret_sauce	User should not be able to login to the page	login failed and a error message is displayed	Pass
5								

## 2. Home Page

	A	В	C	D	E	F	G	Н
6	Project name: Web UI testing With selenium and python Module:Home page Created By: Sachin Budhathoki: Reviewed By: Date: 2025/04/07							-
7	Test ID	Test Case/Condition	Precondition	Test Step	Test Data	Expected Result	Actual Result	Remarks
8	TST-01	Verify the menu button shows menu when clicked	User must be logged in and should be in home page	goto the url     enter username and     password     sclick login     click the menu buttom	Username: standard_user Password: secret_sauce	user should get login and menu button should show menu options	User get login and the menu options get displayed	Pass •
9	TST-02	Verify the cart option gets click	User must be logged in and should be in home page	got to the home page     click the cart button		the cart page should open	the cart page is displayed	(Pass •
10	TST-03	Verify that the page gets scroll smoothly	User must be logged in and should be in home page	goto the home page     scroll the page to the buttom		the page should get scroll properly	the page scrolled properly	(Pass •
11	TST-04	verify that the sort option actually sort the item according to it	user must be in home page	goto the home page     click on sort option     chose an option like a-z		the items on the page should sort according to their name in alphabetical order	items are sorted according to alphabetical order of their name	Pass •

## 3. Cart Page



# Page Object Model (POM) Usage

- login\_page: login functions

- home\_page: navigation elements

- cart\_page: cart and checkout

# **Error Handling & Validation**

Login test includes try-except with 'product' in page check and assertions for test pass/fail.

# **Test Results Summary**

test\_login (valid) - Passed test\_login (invalid) - Failed test\_home - Passed test\_cart - Passed

### **Author**

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