

Project Documentation: Swag Labs E-commerce Website

Project Overview

The Swag Labs website is a sophisticated e-commerce platform designed to offer a seamless shopping experience. Through a robust user interface and structured navigation, it enables users to explore, select, and purchase products efficiently. The project includes various modules, from user authentication to product browsing, cart management, and checkout processing, making it essential to ensure that each functionality operates flawlessly.

Purpose of Documentation

This document provides a detailed overview of the Swag Labs platform's features, functionality, and user flows, and it includes test cases for verifying each critical aspect. The documentation is intended to aid developers, QA testers, and stakeholders in understanding the application architecture and to serve as a reference for future updates or enhancements.

Scope of Documentation

The Swag Labs documentation includes testing of the following key modules and functionality:

1. **User Authentication**
 - Login and logout functionality for both valid and invalid credentials.
 - Error message handling for unsuccessful login attempts.
2. **Product Catalog**
 - Display of product listings with images, descriptions, and pricing.
 - Filtering and sorting options to enhance user navigation.
3. **Shopping Cart**
 - Adding, updating, and removing products in the cart.
 - Real-time price calculation and cart updates.
4. **Checkout Process**
 - Step-by-step checkout flow with options for entering shipping details and completing the purchase.
 - Verification of payment and order summary.
5. **Order Confirmation and History**
 - Display of order confirmation and summary page post-purchase.

- Potential integration for viewing order history for registered users.

Testing Environment

- **Framework:** Selenium WebDriver with Python
- **Operating System:** Windows
- **Browsers Tested:** Chrome

TEST CASE DOCUMENTATION:

Module 1

Module name: Login Process

Date: November 2, 2024

Test case ID	Description	Preconditions	Test Steps	Test Data	Expected Result	Actual Result	Status
TC01	Login with valid username and password	User is on the login page of Swag Labs	1. Enter valid username and password 2. Click on the Login button	Username: standard_user Password: secret_sauce	User is successfully logged in and redirected to the product page	Same as expected	Pass
TC02	Login with invalid username and valid password	User is on the login page of Swag Labs	1. Enter invalid username and valid password 2. Click on the Login button	Username: invalid_user Password: secret_sauce	Error message is displayed, indicating incorrect username	Same as expected	Pass
TC03	Login with valid username and invalid password	User is on the login page of Swag Labs	1. Enter valid username and invalid password 2. Click on	Username: standard_user Password: invalid_password	Error message is displayed, indicating incorrect password	Same as expected	Pass

			the Login button				
TC04	Login with invalid username and invalid password	User is on the login page of Swag Labs	1. Enter invalid username and invalid password 2. Click on the Login button	Username: invalid_user Password: invalid_password	Error message is displayed, indicating incorrect credentials	Same as expected	Pass
TC05	Login without entering any credentials	User is on the login page of Swag Labs	1. Click on the Login button without entering any credentials	None	Error message is displayed, prompting the user to enter both fields	Same as expected	Pass

Module 2

Module name: Product Filtering

Date: November 2, 2024

Test case ID	Description	Preconditions	Test Steps	Test Data	Expected Result	Actual Result	Status
TC06	To test that the products are sorted alphabetically from A to Z	User is logged in with valid credentials	1. Navigate to the inventory page. 2. Select "Name (A to Z)" from the filter dropdown. 3. Capture product names. 4. Verify that the product names are sorted in ascending order.	Login: standard_user Password: secret_sauce	Products are sorted A to Z.	Same as expected	Pass

TC07	To test that the products are sorted alphabetically from Z to A	User is logged in with valid credentials	1. Navigate to the inventory page. 2. Select "Name (Z to A)" from the filter dropdown. 3. Capture product names. 4. Verify that the product names are sorted in descending order.	Login: standard_user Password: secret_sauce	Products are sorted Z to A.	Same as expected	Pass
TC08	To test filter products by price low to high functionality	User is logged in with valid credentials	1. Navigate to the inventory page. 2. Select "Price (low to high)" from the filter dropdown. 3. Capture product prices. 4. Verify that the product prices are sorted in ascending order.	Login: standard_user Password: secret_sauce	Products are sorted by price low to high.	Same as expected	Pass
TC09	To test filter products by price high to low functionality	User is logged in with valid credentials	1. Navigate to the inventory page. 2. Select "Price (high to low)" from the filter dropdown. 3. Capture product	Login: standard_user Password: secret_sauce	Products are sorted by price high to low.	Same as expected	Pass

			prices. 4. Verify that the product prices are sorted in descending order.				
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Module 3

Module name: Cart Functionality

Date: November 2, 2024

Test case ID	Description	Preconditions	Test Steps	Test Data	Expected Result	Actual Result	Status
TC10	Verify that the selected item is successfully added to the cart.	User is logged in.	1. Navigate to the product page. 2. Click "Add to Cart" for an item. 3. Check cart icon count.	Item: Sauce Labs Backpack	Cart icon count should be "1".	Same as expected	Pass
TC11	Verify that the user cannot add more than one quantity of the same item.	User is logged in.	1. Navigate to the product page. 2. Click "Add to Cart" for an item. 3. Attempt to add the same item again.	Item: Sauce Labs Backpack	"Add to Cart" button should be disabled or not available.	Same as expected	Pass
TC12	Verify that clicking on an item displays the correct description.	User is logged in.	1. Navigate to the product page. 2. Click on the item to	Item: Sauce Labs Backpack	Item description page should display the correct item name and description.	Same as expected	Pass

			view its description				
TC13	Verify that an item can be removed from the cart.	User has items in the cart.	1. Click on the cart icon. 2. Click "Remove" for an item in the cart. 3. Check cart icon count.	Item: Sauce Labs Backpack	Cart should be empty after removing the item.	Same as expected	Pass
TC14	Verify that the user can return to the product page and add more items.	User is logged in.	1. Click "Add to Cart" for an item. 2. Click on the cart icon. 3. Click "Continue Shopping". 4. Add another item.	Item: Sauce Labs Backpack, Sauce Labs Bike Light	Cart icon count should reflect total added items (should be "2").	Same as expected	Pass
TC15	Ensure that the cart icon shows the correct number of items.	User is logged in.	1. Click "Add to Cart" for two items. 2. Check cart icon count.	Item: Sauce Labs Backpack, Sauce Labs Bike Light	Cart icon count should be "2"	Same as expected	Pass

Module 4

Module name: Sidebar Funtionality

Date: November 2, 2024

Test case ID	Description	Preconditions	Test Steps	Test Data	Expected Result	Actual Result	Status
TC16	Test the About button functionality	User is logged in.	1. Click on the sidebar button. 2. Click	None	URL should contain "saucelabs.com" after clicking About.	Same as expected	Pass

	of the sidebar.		on "About". 3. Verify the current URL.				
TC17	Test the Logout button functionality of the sidebar.	User is logged in.	1. Click on the sidebar button. 2. Click on "Logout". 3. Verify redirection to the login page.	None	Should redirect to " https://www.saucedemo.com/ " after logout.	Same as expected	Pass
TC18	Test the Reset App State button functionality of the sidebar.	User is logged in, item in cart.	1. Click on the sidebar button. 2. Click on "Reset App State". 3. Verify that the cart is empty.	Item: Sauce Labs Backpack	Cart icon should be empty after clicking Reset App State.	Same as expected	Pass

Module 5

Module name: Checkout Process

Date: November 2, 2024

Test case ID	Description	Preconditions	Test Steps	Test Data	Expected Result	Actual Result	Status
TC19	Test that clicking the Checkout button takes the user to the checkout information page.	User is logged in and has items in the cart.	1. Click on the Checkout button. 2. Wait for navigation to complete.	N/A	User navigates to the checkout information page.	Same as expected	Pass

TC20	Test that clicking the Cancel button during checkout returns the user to the cart page.	User is logged in and has items in the cart.	1. Click on the Cancel button. 2. Wait for navigation to complete.	N/A	User is returned to the cart page.	Same as expected	Pass
TC21	Test that an error message is displayed when the user tries to continue without filling required fields.	User is on the checkout information page.	1. Click on the Continue button without entering any user information. 2. Wait for error message to be displayed.	N/A	An error message is displayed indicating required fields.	Same as expected	Pass
TC22	Test that entering valid information and continuing takes the user to the order overview page.	User is on the checkout information page.	1. Enter valid user information. 2. Click on the Continue button. 3. Wait for navigation to complete.	First Name: "Alishba" Last Name: "Mumtaz" Postal Code: "12345"	User navigates to the order overview page.	Same as expected	Pass
TC23	Test that clicking the Finish button completes the order and shows the confirmation page.	User is on the order overview page.	1. Click on the Finish button. 2. Wait for the confirmation page to load.	N/A	Order confirmation message is displayed.	Same as expected	Pass
TC24	Test that clicking the Back Home button on the confirmation page redirects the	User is on the order confirmation page.	1. Click on the Back Home button. 2. Wait for navigation to complete.	N/A	User navigates back to the product page.	Same as expected	Pass

	user to the product page.						
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Module 6

Module name: Additional Testcases

Date: November 2, 2024

Test case ID	Description	Preconditions	Test Steps	Test Data	Expected Result	Actual Result	Status
TC25	To test that product images load correctly for all items on the product page.	User is logged in to the application.	1. Navigate to the product page. 2. Wait for product images to load. 3. Check visibility of each product image.	N/A	All product images are displayed correctly.	Same as expected	Pass
TC26	To test that the total price displayed in the cart is accurate based on the items added.	User is logged in and has items in the cart.	1. Add items to the cart. 2. Navigate to the cart page. 3. Click on Checkout. 4. Fill in user information. 5. Check the displayed total price against the calculated total price.	First Name: "Alishba" Last Name: "Tester" Postal Code: "12345"	Total price displayed in the cart matches the calculated total price.	Same as expected	Pass