

Test Plan

Introduction

This document outlines the test plan for automating tests on the website <https://www.saucedemo.com/> using Cypress with Javascript. The tests will cover various features, including login scenarios, adding and removing products from the cart and the checkout flow. The automation tests will be stored in a GitHub repository, and GitHub Actions will be used for continuous integration.

Objective

- To validate the functionality of the checkout process in the application, ensuring that users can successfully add items to their cart, proceed to checkout, and complete the purchase.

Scope

- This test plan covers the login process, adding items to the cart, verifying cart contents, entering checkout information, and navigating through the checkout steps. It assumes the user has valid credentials and focuses on the checkout process, not on product search or selection.

Test Items

- Login Page
- Inventory Page
- Cart Page
- Checkout Page (Step 1 and Step 2)

Test Cases

| Test Case ID | Test Case Description | Precondition | Test Steps | Expected Result |
|--------------|--|-----------------------------------|--|---|
| TC01 | Verify successful login | User is on the login page | 1. Enter valid credentials 2. Click login button | User is redirected to the inventory page and URL includes /inventory.html |
| TC02 | Add item to the cart | User is logged in | 1. Select "Sauce Labs Backpack" 2. Click add to cart | Item is added to the cart and cart icon shows "1" |
| TC03 | Verify item details in the cart | User has an item in the cart | 1. Click the cart icon 2. Verify item name and price in the cart | Cart contains "Sauce Labs Backpack" with the correct price |
| TC04 | Proceed to checkout | User is on the cart page | 1. Click the checkout button | User is redirected to the checkout step one page |
| TC05 | Enter checkout information and proceed to Step 2 | User is on checkout step one page | 1. Enter first name, last name, and postal code 2. Click continue | User is redirected to checkout step two page |
| TC06 | Verify item details in checkout step two | User is on checkout step two page | 1. Verify the item name and price in checkout step two | Item name and price match what was in the cart |

| | | | | |
|------|-------------------------------------|-----------------------------------|---|---|
| TC07 | Complete the purchase | User is on checkout step two page | 1. Click finish button | User sees a confirmation message and URL includes /checkout-complete.html |
| TC08 | Handle empty cart during checkout | User is logged in, cart is empty | 1. Click the cart icon 2. Try to proceed to checkout | System prevents checkout and shows a relevant message |
| TC09 | Handle missing checkout information | User is on checkout step one page | 1. Leave one or more fields blank 2. Click continue | System shows an error message indicating missing information |

Test Environment

- **Browser:** Chrome, Firefox, Safari, Edge
- **Operating System:** Windows, macOS, Linux
- **URL:** <https://www.saucedemo.com/>

Test Data

- **Username:** `standard_user`
- **Password:** `secret_sauce`
- **Item Name:** `Sauce Labs Backpack`
- **Item Price:** `\$29.99`
- **Checkout Information:**
 - **First Name:** `Favour`
 - **Last Name:** `Mba`
 - **Postal Code:** `500272`

Assumptions

- The user has a valid account and can log in successfully.
- The item details (name, price) remain constant.
- The application is stable and responds within expected timeframes.

Dependencies

- Application must be up and running.
- Inventory items and prices should not change during testing.
- User credentials should remain valid throughout the test cycle.

Risks

- Unexpected application downtime may hinder testing.
 - Changes in the application (e.g., UI updates or item details) may require test case updates.

Exit Criteria

- All test cases must pass with no critical defects.
- Any minor defects must be documented and scheduled for resolution.

Defect Management

- Defects found during testing will be logged in [Defect Tracking Tool].
- Severity and priority will be assigned based on the impact.