Test Plan - Sauce Demo

Overview

Application: saucedemo.com
Version: 1.0

Purpose

This document is detailing the process to test two critical features on the saucedemo.com e-commerce application.

Tests will be defined for the **Login-page** and the **Shop-page** including the shopping cart. The goal is to ensure that all functionality works as expected and is free of critical defects.

Test Objectives

- Ensure all user interaction with the login & product page functions as expected.
- Ensure that all product information is displayed correctly and products can get added to cart.

Scope

- **Login Feature:** User authentication, input validation and security aspects.
- **Shop Feature:** The shop page, display of products, adding and removing products from cart.

Automation scope:

Automation will be mostly focused on functional testing. On the login page most test scenarios will be automated.

Test Approach

Types of testing

- **Functional testing** - Each feature performs as expected
- **Boundary testing** - Test with edge case inputs
- **UI Testing** - Ensure layout is displayed as it should and all components exist
- **Compatibility testing** - Ensure that System Under Test works across different browsers and devices.

Test environment

- **Browsers:** Chrome, Firefox, Safari
- **Devices:** Desktop, Mobile
- **Test Data:** Valid/Invalid credentials, Products.

Test Scenarios:

Login Feature:

Test to verify the correct header is displayed on the login page.

When the user has not typed in a string in the username or password field a placeholder is displayed.

Test to make sure all styling is applied to elements.

User fills out password but no username. Username should be required.

User fills out username but no password. Password should be required.

User can not log in with invalid username but valid password.

User can not log in with valid username but invalid password.

User can not login empty credentials.

User can log in with valid credentials

Test that error messages are displayed in red box.

Test that invalid input fields are displayed with a red border.

Shop Feature:

Verify that all products have an image, title, description, price and "add to cart button" on the shopping page.

Verify that a product has an image, title, description, price and "add to cart button" in the single product view.

Verify that products are displayed correctly in the shopping cart, It should contain quantity, title, description, price and a "Remove from cart button".

Verify that the user can sort products alphabetically in both directions.

Verify that the user can sort products by price in both directions.

Verify that the user can add a product to the checkout/shopping cart on the inventory page.

Verify that the user can remove an added product from the checkout/shopping cart on the inventory page.

Verify that users can add products to the checkout/shopping cart in a single product view.

Verify that the user can remove an added product from the checkout in a single product view.

Verify that the user can remove products from the shopping cart page.

Verify that the shopping cart badge is increased when adding product.

Verify that the shopping cart badge is decreased when removing a product.

Verify that the user can add multiple products, shopping cart badge should show correct number, shopping cart should have correct items and added products should have remove button.

Test Metrics & Success Criteria

Pass Criteria:
All test cases are executed and passed with no high priority defects.

Fail Criteria:
If more than 10% of tests fail or if any critical/high priority defects are found.

Resources

Testers

1 QA Engineer

Tools

Playwright automation framework

Time Frame:

Start date 2024-09-23
End date 2024-09-25

Schedule

Task	Resources
Writing test plan	3 h
Defining test cases	5 h
Writing automated tests	8 h
Test execution	2 h
Reporting	2 h