**Test Plan for SauceDemo Mobile Web App**

**Project Information:**

- Project Name: SauceDemo Web App Testing

- Project Start Date: 10/11/2024

- Project End Date: 10/12/2024

- Engineer: Abdelouahed Manaa

**Objective**:

The objective of this test plan is to outline the testing approach for the SauceDemo web app. The goal is to test the app thoroughly, covering happy path scenarios and negative cases.

**Scope**:

This test plan covers the testing of the SauceDemo web app available at https://www.saucedemo.com/.

**Testing Approach:**

1. Test Automation Framework Setup

* We implemented the test automation framework using Selenium with Java and TestNG.
* The setup process involved installing the necessary tools and dependencies.
* A modular test automation script was developed for the SauceDemo mobile web app, following the Page Object Model (POM) design pattern.
* To manage test execution and reporting, we utilized TestNG and integrated Extent Report for enhanced reporting capabilities.
* The project's dependencies were managed via the Project Object Model (POM) configuration within the "pom.xml" file.

2. Test Scenarios:

* Identify key test scenarios covering both happy path and negative test cases.
* Prioritize test scenarios based on their criticality.

4. Test Execution:

* The automated tests were executed on the SauceDemo web app using the established test automation framework, mainly driven by TestNG.
* We aimed to validate the functionality of the SauceDemo web app through a series of tests that included positive scenarios (happy path tests) and negative scenarios to ensure comprehensive test coverage.
* As part of the test execution, we intended to capture screenshots at critical points in the test cases to visually document the application's behavior during testing – Unfortunately this part was not accomplished due to time restriction

5. Reporting:

* Generate test reports that include test execution status, any defects found, and screenshots for failed tests.
* Document the test results in a clear and organized manner.
* Unfortunately, due to the time restrictions imposed on the exercise, we were unable to implement the full functionality of capturing and attaching these screenshots to the test report.
* Despite the limitations in capturing screenshots, we still systematically recorded and captured essential test results such as pass/fail status, execution times, and any error or exception messages.

6. Documentation:

* Maintain detailed documentation of test scenarios, test cases, and test data.
* Provide clear and concise documentation for test scripts and any custom functions used in the automation framework.

**Test Scenarios:**

1. Happy Path Scenarios:

- Verify successful login with valid credentials.

- Add items to the cart and proceed to checkout.

- Complete the checkout process successfully.

2. Negative Test Scenarios:

- Verify that the app displays an error for incorrect login credentials.

- Ensure that validation messages are displayed for missing information during checkout.

**Test Deliverables:**

- Test automation scripts.

Github: <https://github.com/AbdelouahedManaa1/TakeHome_Stellar/tree/main>

- Test execution reports.

Please find it attached in the email.