**Test Plan Document**

**Table of Contents**

1. Introduction
2. Objectives
3. Scope
4. Test Approach
5. Test Environment
6. Test Cases
7. Test Execution
8. Defect Management
9. Risks and Assumptions
10. Sign-off

**1. Introduction**

The purpose of this document is to outline the test plan for SauceDemo. It includes the approach, scope, environment, test cases, execution strategy, defect management, risks, and assumptions related to testing.

**2. Objectives**

* To ensure the quality and functionality of the application.
* To validate that all specified requirements are met.
* To identify defects and ensure their resolution before release.

**3. Scope**

The testing scope includes:

* Login Process
* Product Sorting Capabilities
* Shopping Cart Operations
* Checkout Operations

**4. Test Approach**

* Automated testing will be utilized for efficient and effective testing.
* Cypress will be used as the automation tool.
* Test cases will cover positive and negative scenarios for each functionality.

**5. Test Environment**

* Operating System: Windows,Linux,Mac
* Browser: Chrome,Firefox,Electron
* Application URL: https://saucedemo.com
* Tools: Cypress, Git, VSCode

**6. Test Cases**

Detailed test cases for each functionality are documented below.

**Login Process**

1. Verify user can see username, password and Login fields
2. Verify user can login with valid credentials
3. Verify user can not login with invalid credentials and see error message
4. Verify a locked user can not login and see proper locked out error message

**Product Sorting Capabilities**

1. Verify user user can sort items by name
2. Verify user user can sort items by price

**Shopping Cart Operations**

1. Verify user can add or remove item from cart
2. Verify user can add multiple products

**Checkout Operations**

1. Verify user user can place order successfully

**7. Test Execution**

* Test execution will be performed by the testing team.
* Test cases will be executed using Cypress.
* Test results will be documented, including pass/fail status and any defects found.

**8. Defect Management**

* Defects will be logged in JIRA
* Each defect will be assigned a priority and severity level.
* Defects will be tracked until resolution.

**9. Risks and Assumptions**

**Risks**

* Limited Availability of testing resource be it tools, environments or testers
* Inadequate or ambiguous requirements leading to incomplete testing coverage.

**Assumptions**

* **Availability of Test Data**
* **Availability of Testing Tools and Resources**
* **Access to Stable Testing Environment**
* **Stable Application Build**

**10. Sign-off**

This test plan document requires approval from the relevant stakeholders before testing begins.