**Test Plan**

**Document Information**

* **Document Title:** Test Plan for [SwagLab (Sacuselab.com)]
* **Document Version:** SL-SEP-23
* **Date:** 30 Dec 2024
* **Author:** Pawan Mankar
* **Reviewer:** Imran Sayyad
* **Approval:** ITP Nagpur.

**1. Introduction :**

* **Purpose**

The purpose of this test plan is to outline the strategy and approach for automation testing of the demo shopping website to ensure its functionality.

* **Scope**

This test plan covers the automation testing of key features of the demo shopping website, including user registration, login, product browsing, cart management, checkout, and payment.

* **Objectives**

The objectives of this test plan are:

* To verify that the website functions correctly.
* To ensure a smooth user experience.
* To identify and report defects, bugs.

**2. Test Strategy**

Automation testing will be performed using Selenium WebDriver and a testing framework. Test scripts will be developed for the identified test scenarios.

**Testing Objectives**

* To do functional testing

**Testing Approach**

* We have to do automation testing for all core functionality of the website
* We are using [Java Selenium Testng ] Framework for this project

**Test Levels**

* We are using integration, system, user acceptance Testing level

**3: Test Phases**

1. **Unit Testing:**
   * **Objective:** To test individual components, modules, or functions of the website.
   * **Activities:** Developers or testers verify the correctness of code at the smallest unit level.
   * **Tools:** Unit testing frameworks, code analysis tools.
2. **Integration Testing:**
   * **Objective:** To verify that various components/modules of the website work together as expected.
   * **Activities:** Test interactions between different modules, data flows, and API integrations.
   * **Tools:** Integration testing tools, APIs, and data simulators.
3. **Functional Testing:**
   * **Objective:** To validate the core functionalities of the e-commerce website.
   * **Activities:** Test scenarios like user registration, product search, cart management, checkout, and order processing.
   * **Tools:** Automation testing frameworks, browsers, and devices.
4. **User Acceptance Testing (UAT):**

* **Objective:** To get user feedback and approval before releasing the website.
* **Activities:** Allow end-users to test the system and provide feedback.
* **Tools:** UAT environments and feedback collection mechanisms.

**4: Test Environment**

* [Detail the hardware, software, and network configurations used for testing]
* The demo shopping website (SwagLab)
* Selenium WebDriver
* Browser : Google Chrome
* Browser Version :
* Test automation framework : Java + selenium + Testng

**5: Test Cases**

**Test Case Identification**

* Test Case will be identified by Test finding Test Scenarios ,& from Test Scenarios All possible Test case will be created
* Test case will be only based on functionality of website

**Test Case Design**

* Tester will design / create the test case according to test plan
* Test cases should contain Below important fields :

Test case ID, Test Case Name , Test Case Descriptions, Test Creator Name & Email ID

Pre-Conditions, Test Steps, Test Data, Expected Result, Actual Result, Status of test case

Etc.

**Test Data**

* Test data, including user accounts, product information, and payment details, will be provided for test automation.

**Test Case Execution**

* Basically this we are going to check functionality of site with Automation testing so we have to follow test case steps exactly as shown in test cases.

**Test Case Reporting**

* After creation of All test cases then submit it to Manager, Team lead, For pear review

**6. Risks and Contingencies :**

**Risks**

* Identify potential risks that may affect the testing process & report or discuss with teams and manager.

**Mitigation Strategies**

* Outline strategies for mitigating identified risks

**7. Defect Management :**

**Defect Reporting**

* When ever in testing defect occure then create a excel document mention all details about bug

Its severity priority etc

* And raised bug by using tool jira / mantis / bugzilla

**Defect Classification**

* Depend on bug/ Defect Priority , Severity ,And its reproduciablity level

**Defect Tracking**

* Use tool for defect tracking Jira

**Defect Resolution**

* By gathering meeting we resolved such defect

**8: Test Deliverables**

* All Below Document should be submitted to client and Steak holder:
* BRD, SRS, Test plan, Test Case, Bug Reports, Test Matrix etc

**9. Roles and Responsibilities**

* My Role is To crate the detailed Test Cases
* Executing that test cases through automation
* Raised bugs
* Track the bugs
* Create test matrix(RTM)

**10. Conclusion**

completion of automation testing, a summary report will be created to highlight the test results and provide an overall assessment of the website's functionality and usability.