**1. Introduction**

Manual testing & Automation testing using cypress is a process of testing software manually & automatically to identify defects. The tester takes on the role of an end-user and verifies that all features work as expected. This document outlines the test plan for <https://practicesoftwaretesting.com>including objectives, scope, test coverage, risks, and mitigations.

**2. Test Plan**

**2.1 Test Objective**

To ensure the functionality, performance, security, and usability of [**https://practicesoftwaretesting.com/**](https://practicesoftwaretesting.com/) meet the specified requirements within the defined timeline.

**2.2 Testing Scope**

The testing scope covers the following aspects:

* **UI Testing:** Verify design, layout, responsiveness, and navigation.
* **Functional Testing:** Validate core functionalities like login, registration, search, checkout, and cart management.
* **Non-Functional Testing:** Assess performance, security, and compatibility.
* **Cross-browser Testing:** Validate website functionality on Chrome, Firefox, Edge, and Safari.

**2.3 Test Schedule & Duration**

* **Start Date:** 4th February 2025
* **End Date:** 10th February 2025
* **Total Duration:** 6 days

**2.4 Test Coverage**

Testing will cover:

* Homepage navigation
* Product search and filtering
* Product details validation
* Cart management
* Checkout process
* User account functionalities
* Responsiveness on different devices

**2.5 Functional Testing**

* Verify that all functional aspects of the website work as expected.
* Identify and report defects.
* Ensure the correct flow for core functionalities like registration, login, product management, and order placement.

**2.6 Non-Functional Testing**

* **Performance Testing:** Evaluate page load speed and server response times.
* **Security Testing:** Identify vulnerabilities such as SQL injection, cross-site scripting (XSS), and authentication issues.
* **Compatibility Testing:** Ensure compatibility across different browsers and devices.

**2.7 Testing Approach**

* **Manual Testing Execution:** Performed by Balaji Chavan.
* **Automation Testing with Cypress:** Performed by Vineet Singh.
* **API Testing (if applicable):** Use Postman to verify API responses.
* **Defect Reporting:** Document all defects and track them until resolution.

**2.8 Roles & Responsibilities**

* **Vineet Singh (Team Lead):** Oversees Cypress automation, test strategy, and defect triage.
* **Balaji Chavan (Manual Tester):** Executes manual test cases, documents defects, and ensures test coverage.

**2.9 Deliverables**

* Test Plan Document
* Test Cases & Execution Reports
* Bug Reports
* Summary Report
* Test Closure Report

**2.10 Entry and Exit Criteria**

**Entry Criteria:**

* All test environments are set up.
* Requirements and designs are available and reviewed.
* Test cases are approved.

**Exit Criteria:**

* All critical and high-severity defects are resolved.
* Functional and non-functional requirements are met.
* Test summary report is prepared and reviewed.

**2.11 Risks and Mitigations**

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| --- | --- |
| **Risk** | **Mitigation Strategy** |
| Tight testing schedule | Prioritize critical test cases, allocate resources efficiently |
| Defects identified late | Continuous testing approach and early defect triage |
| Compatibility issues | Test on multiple devices and browsers |
| Unstable environment | Set up dedicated stable test environments |

**2.12 Approvals Required**

* Test Plan Approval from Project Manager
* Test Case Approval from QA Lead
* Defect Resolution Sign-Off from Development Team

**3. Conclusion**

This test plan outlines the detailed strategy to ensure comprehensive testing of [**https://practicesoftwaretesting.com/**](https://practicesoftwaretesting.com/) within the specified timeline, leveraging both manual and automated approaches. The structured approach ensures thorough validation of the website’s functionality, performance, security, and usability.

This document now includes all key aspects of a test plan, including test objective, scope, coverage, functional and non-functional testing, entry and exit criteria, risks, mitigations, and approvals. Let me know if you need any refinements!