Test Plan for Qafox

Introduction

Project Name: Qafox - Add To Cart Functionality Testing.

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Reviewed By: Mr. Shiva Kumar.

Version: Website.

Approval: Mr. Shiva Kumar.

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1. Objective

To ensure the highest quality and seamless functionality of the "Add to Cart" feature on the OpenCart demo e-commerce website. This test plan aims to validate the feature's functionality, usability, and performance to deliver an optimal shopping experience. The goal is to identify any issues impacting user satisfaction or operational efficiency, ensuring a robust and user-friendly feature.

2. Scope.

Functional Testing of Add to Cart functionality

Usability Testing of the Add to Cart process

Performance Testing for the Add to Cart feature

Compatibility Testing across different browsers and devices

Security Testing for data integrity and protection

Website: [OpenCart Demo] (https://tutorialsninja.com/demo/)

Feature: Add to Cart

3. Test Methodology.

Manual Testing: For exploratory and usability testing.

Automated Testing: For repetitive tasks and performance benchmarks.

Security Testing: To ensure protection against vulnerabilities related to the Add to Cart feature.

4. <u>Test Approach.</u>

Functional Testing - Ensures the "Add to Cart" feature works correctly by verifying links, product information, and cart functionality.

Usability Testing - Assesses the ease of navigation and clarity of product information to enhance the overall user experience.

Performance Testing - Evaluates how quickly the Add to Cart feature loads and responds under different conditions.

Compatibility Testing - Verifies the feature's functionality across various browsers and devices to ensure consistent performance.

Security Testing - Ensures the secure handling and accurate display of cart data, protecting against vulnerabilities

5. <u>Assumptions.</u>

- The OpenCart demo website is live and accessible for testing.

- Test environments replicate real user conditions.

- Test data is provided for various scenarios.

6. <u>Risks and Mitigation Plan.</u>

Risk: Team member availability issues.

Mitigation: Cross-train team members and maintain detailed documentation.

Risk: Changes in website functionality affecting test cases.

Mitigation: Regular updates and reviews of the test plan.

Risk: Inconsistent behaviour across browsers or devices.

Mitigation: Extensive cross-browser and cross-device testing.

Risk: Delays in test environment setup.

Mitigation: Prepare backup plans for alternative testing setups.

7. <u>Backup and Mitigation Plan.</u>

Backup Plan - Use alternate testing tools or environments if the primary setup fails.

Mitigation Plan - Regularly review and update the test strategy to address any emerging issues.

8. <u>Roles and Responsibilities.</u>

Test Lead: (Mr. Shiva Kumar) Coordinate test activities, manage test plans, and handle escalations.

Test Engineers: (Neha Kumari) Execute test cases, report bugs, and validate fixes.

9. <u>Scheduling.</u>

Test Planning - 29/08/24

Test Design and Development - 29/08/24

Test Execution - 29/08/24

Defect Reporting and Retesting - 29/08/24

Test Closure - 29/08/24

10. <u>Defect Tracking</u>

Use JIRA to log, track, and manage defects.

Each defect will be categorized by severity and assigned to the relevant team member.

Regular status meetings to review and prioritize defect resolution.

11. Test Environment

Browsers Chrome, Firefox, Edge, Safari.

Devices Desktops, Smartphones iOS, Android, Tablets.

Network Simulate various network conditions such as high latency.

12. Entry and Exit Criteria.

Entry Criteria -

  Test environment setup is complete.

  Test data is prepared and available.

  Test cases are reviewed and approved.

Exit Criteria

  All planned test cases are executed.

  Critical defects are resolved or documented with mitigation plans.

  Test summary report is reviewed and approved.

13. Deliverables.

Test Plan Document.

Test Scenarios and Test Cases.

Defect Reports.

Test Summary Report.

14. Automation Testing.

Tools: Selenium WebDriver, Testing.

Scope: Automate repetitive tests, especially for regression and performance.

Scripts: Develop scripts for high-priority test cases such as Add to Cart functionality.

15. Templates

Test Case Template Includes fields for test ID, description, preconditions, steps, expected results, and actual results.

Defect Report Template Includes fields for defect ID, description, severity, status, steps to reproduce, and resolution.

Conclusion

This test plan outlines a detailed strategy for validating the "Add to Cart" functionality of the OpenCart demo e-commerce website. By implementing this plan, we aim to ensure that the feature operates effectively, provides a positive user experience, and performs optimally under various conditions. The structured methodology detailed herein will guide the testing process, facilitating the identification and resolution of issues to deliver a reliable and user-friendly feature.