OpenCart Application Test Plan

PREPARED FOR

Pramod Dutta

TheTestingAcademy

PREPARED BY

Fernando Garzon

My Portfolio

Summary

Objective

The objective of this test plan is to ensure that the OpenCart application meets all its functional requirements and expectations while delivering a top-notch performance in all E2E scenarios.

Scope

This test plan includes the following areas:

- Login and Registration Functionality
- Add to Cart and Checkout Functionality
- Payment Gateway Functionality
- Order Management and Fulfilment Functionality
- Performance Testing of the Platform

The tests will focus on exploring E2E scenarios and how the application handles different user approaches or interpretations of its functionalities.

The test will be considered successful when the application is capable of rejecting any interactions involving wrong interpretation while still being able to achieve its objective, meets all its functional requirements, being intuitive, and achieve good user satisfaction ratings.

The test will be executed on different browsers to ensure compatibility.
All tests will be automated, considering both exploratory and defined user stories approaches.

The automations will be built using Robot Framework with Python, and the Selenium and Pabot libraries.
The test runs and reports will be assisted by a local Jenkins server.

Inclusions

The following items are included in this test plan:

- Test Strategy Document
- Test Cases Document
- Test Execution Report
- Defect Report
- Performance Test Report

Test Environments

The application environment used will be:

- Production Environment

Role	Environment URL
Production	https://awesomeqa.com/ui/

The following interface applications will be used:

- Windows 10
    - Chrome
    - Firefox
    - Edge

Requires a stable network connection for all tests that doesn't consider performance as an success indicator.

No specific hardware or screen size are needed.

Defect Reporting Procedure

A defect will be found every time an interaction produces wrong/unexpected output, affects the user experience, deviates from the project's requirements or causes technical errors.

Steps for Report Writing

The report should contain a short summary following an PAL (Problem, Action, Location) format for quick visualisation and understanding, including a description of what is the defect, which interaction caused it, on which module and field it happened, a description of the environment, the steps/backtrace that caused the defect and any media that helps understanding the caused attached (screen captures or screenshots).

Prioritisation of Defects

The priority levels will be assigned as following:

- High
    - Affects user data integrity
    - Prevents user from interacting with the application
    - Affects application's services disponibility
    - Deviates from the requirements
- Medium
    - Changes application layout
    - Visual artefacts that doesn't hinders interaction
    - Dynamic content not properly loaded. Doesn't affects interaction
- Low
    - Exposed hard-coded html strings
    - Misaligned Items
    - Wrong text that doesn't affect understanding about the features

Tools and Systems

The tools that will be used to track and manage the defects and reports are:

- JIRA
- Jenkins Server

Team Distribution

- Developers
    - Responsible for debugging the application based on the priority levels and the description provided during the defect reporting.
- Test Leads
    - Responsible for triaging the defects reports, to guarantee a correct severity and priority assignment.
    - Guarantee that the team has all that it needs to test all requirements for that sprint.
    - Supervise the adjustments for the tests when necessary, to verify if it is still covering all requirements for the project
- Testers
    - Run the tests, analyse the results, and build defect reports based on possible causes.
    - Make necessary adjustments to the tests to guarantee that it is 100% valid.

Communication

The communication with the stakeholders will be made daily to ensure that the results are within their expectations.