

Test Plan

Product Name: OpenCart (Frontend)

Overview

This document serves as a high level test planning document with details on the scope of the project, test strategy, test schedule and resource requirements, test deliverables and schedule.

Scope

The scope of the project includes testing the following features of '<http://demo.opencart.com>' web application.

Inclusions

- Register
- Login & Logout
- Forgot Password
- Search
- Product Compare
- Product Display Page
- Add to Cart
- Wish List
- Shopping Cart
- Currencies
- Home Page
- Checkout Page
- My Account Page
- Order History Page
- Downloads Page
- Contact Us Page
- Menu Options
- Footer Options
- Category Pages

From our understanding, we believe the above functional areas need to be tested.

Test Environment

- Windows 10 – Chrome, Firefox, Edge Browsers
- Mac OS – Safari Browser
- Android Mobile OS – Chrome Browser
- iPhone Mobile OS – Safari Browser

Exclusions

- All the features except that are mentioned under “Inclusions”
- All third-party features or Payment gateways
- Test Automation

Test Strategy

We need to perform Functional Testing of all the functionalities mentioned in the above Scope section.

As part of the Functional Testing, we will follow the below approach for Testing:

Step #1 – Creation of Test Scenarios and Test Cases for the different features in scope

- We will apply several Test Design techniques while creating Test Cases
 - Equivalence Class Partition
 - Boundary Value Analysis
 - Decision Table Testing
 - State Transition Testing
 - Use Case Testing
- We also use our expertise in Test Cases by applying the below:
 - Error Guessing
 - Exploratory Testing
- We prioritise the Test Cases

Step #2 – Our Testing process, when we get an Application for Testing:

- Firstly, we will perform Smoke Testing to check whether the different and important functionalities of the application are working.
- We reject the build, if the Smoke Testing fails and will wait for the stable build before performing in depth testing of the application functionalities.
- Once we receive a stable build, which passes Smoke Testing, we perform in depth testing using the Test Cases created.
- Multiple Test Resources will be testing the same Application on multiple Supported Environments simultaneously.
- We then report the bugs in bug tracking tool and send dev. management the defect found on that day in a status end of the day email.
- As part of Testing, we will perform the below types of Testing:
 - Smoke & Sanity Testing
 - Regression Testing & Re-Testing
 - Usability Testing, Functionality & UI Testing
- We repeat Test Cycles until we get the quality product

Step #3 – We will follow the bellow best practices to make our Testing better:

- Context Drive Testing – We will be performing Testing as per context of the given application
- Shift Left Testing – We will start testing from the beginning stages of the development itself, instead of waiting for the stable build.
- Exploratory Testing – Using our expertise we will perform Exploratory Testing, apart from the normal execution of the Test Cases.
- End to End Flow Testing – We will test the end-to-end scenario which involve multiple functionalities to simulate the end user flows.

Defect Reporting Procedure:

During the test execution:

- Any deviation from expected behaviour by the application will be noted. If it can't be reported as a defect, it would be reported as an observation/issue or posed as a question.
- Any usability issues will also be reported.
- After discovery of a defect, it will be tested to verify reproducibility of the defect. Screenshots with steps to reproduce are documented.
- Every day, at the end of the test execution, defects encountered will be sent along with the observations.

Note:

- The defects will be documented in excel.
- Test Scenarios and Test Cases will be documented in an excel document.

Roles/Responsibilities

N/A

Test Schedule

N/A

Test Deliverables

The following are to be delivered to the client:

Deliverables	Description	Target Completion Date
Test Plan	Details on the scope of the Project, test strategy, test schedule, resource requirements, test deliverables and schedule	Date
Functional Test Cases	Test Cases created for the scope defined	Date
Defect Reports	Detailed description of the defects identified along with screenshots and steps to reproduce on a daily bases	NA
Summary Reports	Summaru Reports - Bugs by Bug#, Bugs by Functional Area and Bugs by Priority	Date

Pricing

N/A

Entry and Exit Criteria

The below are the entry and exit criteria for every phase of Software Testing Life Cycle.

Requirement Analysis

Entry Criteria:

- Once the testing team receives the Requirement Document or details about the project

Exit Criteria:

- List of Requirements are explored and understood by the Testing team
- Doubts are cleared

Test Planning

Entry Criteria:

- Testable requirements derived from the given Requirements Documents or Project details
- Doubts are cleared

Exit Criteria:

- Test Plan document(include Test Strategy) is signed-off by the client.

Test Designing

Entry Criteria:

- Test Plan document is signed-off by the client.

Exit Criteria:

- Test Scenarios and Test Cases documents are signed-off by the client.

Test Execution

Entry Criteria:

- Test Scenarios and Test Cases documents are signed-off by the client.
- Application is ready for Testing.

Exit Criteria:

- Test Case Reports, Defect reports are ready

Test Closure

Entry Criteria:

- Test Case Reports, Defect reports are ready

Exit Criteria:

- Test Summary Reports

Suspension and Resumption Criteria

Based on Client decision, we will suspend and resume the project. We will Ramp Up & Ramp Down the resources as per Client needs.

Tools

- The following are the list of Tools we will be using in this project:
- XYZ Bug Tracking tool
- Mind Map tool

- Snipping Screenshots tool
- Word and Excel documents

Risk and Mitigations

The following are the list of risks possible and the ways to mitigate them:

Risk: Non-Availability of a Resource

Mitigation: Backup Resource Planning

Risk: Build URL is not working

Mitigation: Resources will work on other tasks

Risk: Less time for Testing

Mitigation: Ramp up the resources based on the clients needs dynamically

Approvals

Team will send different types of documents for Client Approval like below:

- Test Plan
- Test Scenarios
- Test Cases
- Reports

Testing will only continue to the next step once the approvals are done!