# **Test Plan**

Product Name : Opencart (Front end)

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## Objective

The objective of this test plan is to ensure that the e-commerce platform meets all the functional requirements, provides a user-friendly experience, is secure, and performs well under various load conditions.

* React 18.2.0
* jQuery 2.1.1
* JavaScript
* Database Postgres SQL
* Web Server (Apache suggested)
* Nginx

## Scope

The scope of the project includes testing the following features of

‘https://demo.opencart.com/’ web application.

## Inclusions

* Registration
* Login & Logout
* Forgot Password
* Add to Cart
* Checkout Page
* Wish List
* Shopping Cart
* Home Page
* Order History
* Menu Options
* Footer Options

## Test Environments

The following test environments will be used:

* Development environment
* Test environment
* Production environment

The **operating systems** and versions that will be used for testing, such as Windows 10, macOS, or Linux.

The browsers and versions that will be tested, such as Google Chrome, Mozilla Firefox, or Microsoft Edge.

The device types and screen sizes that will be used for testing, such as desktop computers, laptops, tablets, and smartphones.

The network connectivity and bandwidth that will be available for testing, such as Wi-Fi, cellular, or wired connections.

The hardware and software requirements for running the test cases, such as a specific processor, memory, or storage capacity.

The security protocols and authentication methods that will be used to access the test environment, such as passwords, tokens, or certificates.

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

## Exclusions

* All the features except that are mentioned under ‘Inclusions’.
* Any third-party features or Payment gateways.
* Test Automation

## Defect Reporting Procedure

During the test execution -

* Any deviation from expected behavior by the application will be noted. If it can’t be reported as a defect, it’d 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 retested 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:

* Defects will be documented in a excel.
* Test scenarios and Test cases will be documented in an excel document

## Test Strategy

Based on Functional requirement Document we need to perform Functional Testing of all the functionalities mentioned in the above Scope section.

As part of 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 Designing 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 creating Test Cases by applying the below:
* Error Guessing
* Exploratory Testing
* We priorities 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 the Testing, we will perform the below types of Testing:
* Smoke Testing and Sanity Testing
* Regression Testing and Retesting
* Usability Testing, Functionality & UI Testing
* We repeat Test Cycles until we get the quality product.

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

* Context Driven Testing – We will be performing Testing as per the 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.

## Test Schedule

Following is the test schedule planned for the project –

Task Time Duration

|  |  |
| --- | --- |
| **Task** | **Dates** |
| ▪ Creating Test Plan |  |
| ▪ Test Case Creation |  |
| ▪ Test Case Execution |  |
| ▪ Summary Reports Submission Date |  |

## Test Deliverables



### 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 Requirements Documents or details

about the Project

#### Exit Criteria:

• List of Requirements are explored and understood by the Testing team

• Doubts are cleared

## 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

#### Tools

The following are the list of Tools we will be using in this Project:

• JIRA Bug Tracking Tool

• Mind map Tool

• Snipping Screenshot Tool

• Word and Excel documents

#### Risks 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 Client 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 steps once these approvals are done