

TEST PLAN

Product Name: OpenCart (Frontend)

Prepared by: Pravalika

Date: May 25, 2023

Table of Contents

[Overview](#_bookmark0) [2](#_bookmark0)

[Scope](#_bookmark1) [2](#_bookmark1)

[Inclusions](#_bookmark2) [2](#_bookmark2)

[Test Environments](#_bookmark3) [2](#_bookmark3)

[Exclusions](#_bookmark4) [2](#_bookmark4)

[Test Strategy](#_bookmark5) [3](#_bookmark5)

[Defect Reporting Procedure:](#_bookmark6) [4](#_bookmark6)

[Roles/Responsibilities](#_bookmark7) [4](#_bookmark7)

[Test Schedule](#_bookmark8) [5](#_bookmark8)

[Test Deliverables](#_bookmark9) [5](#_bookmark9)

[Pricing](#_bookmark10) [5](#_bookmark10)

[Entry and Exit Criteria](#_bookmark11) [5](#_bookmark11)

[Suspension and Resumption Criteria](#_bookmark12) [6](#_bookmark12)

[Tools](#_bookmark13) [7](#_bookmark13)

[Risks and Mitigations](#_bookmark14) [7](#_bookmark14)

[Approvals](#_bookmark15) [7](#_bookmark15)

# 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

‘https://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 Environments

* 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

# Test Strategy

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 prioritize 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 the 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.

# 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 the discovery of a defect, it will be retested to verify the 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 an excel.
* Test scenarios and Test cases will be documented in an Excel document.

# Roles/Responsibilities

|  |  |  |
| --- | --- | --- |
| Name | Role | Responsibilities |
| Person A | Test Manager | * Escalations |
| Person B | Test Lead | * Create the Test Plan and get the client signoffs * Interact with the application, create and execute the test cases * Report defects * Coordinate the test execution. Verify validity of the defects being reported. * Submit daily issue updates and summary defect reports to the client. * Attend any meeting with client. |
| Person C | Senior Test Engineer | * Interact with the application * Create and Execute the Test cases. * Report defects |
| Person D | Test Engineer | * Interact with the application * Execute the Test cases. * Report defects |

# Test Schedule

Following is the test schedule planned for the project –

|  |  |
| --- | --- |
| Task | Time Duration |
| * Creating Test Plan | Start Date to End Date |
| * Test Case Creation | Start Date to End Date |
| * Test Case Execution | Start Date to End Date |
| * Summary Reports Submission | Date |

# 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 basis. | NA |
| Summary Reports | Summary Reports –  Bugs by Bug#,  Bugs by Functional Area and Bugs by Priority | Date |

# Pricing

NA

# 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 Planning

Entry Criteria:

* Testable Requirements derived from the given Requirements Documents or Project details
* Doubts are cleared Exit Criteria:
* Test Plan document (includes 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 the Client decision, we will suspend and resume the Project. We will ramp up and 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 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.