# TEST PLAN

## Product Name: OpenCart (Frontend)

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# Overview

As part of the project, ’OpenCart’ I’m going to test few functionalities of

“https://demo.opencart.com/” web application.

This document serves as 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 Pages
* Contact Us Page
* Menu Options
* Footer Options
* Category Pages

## Test Environments

* Windows 8 – Chrome, Firefox and Edge
* Mac OS – Safari Browser
* Android Mobile OS – Chrome
* iphone Mobile OS – Safari

## Exclusives

* All the features except are mentioned under ‘Inclusion’
* Any third-party features or Payment gateways
* Performance Testing of the web application

# Test Strategy

Here, I need to perform Functional Testing of all the functionalities mentioned in the above Scope section.

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

**Step -1**: Creation of Test Scenarios and Test Cases for the different features in scope.

* I 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
* I also use my expertise in creating Test Cases by applying the below:
* Error Guessing
* Exploratory Testing
* I prioritise the Test Cases

**Step -2**: Testing process, when I get an Application for Testing:

* Firstly, I will perform Smoke Testing to check whether the different and important functionalities of the application are working or not.
* I 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 I receive a stable build, which passes Smoke Testing, I perform in depth testing using the Test Cases created.
* Multiple Test Resources will be testing the same Application on Multiple Supported Environments simultaneously.
* I then report the bugs in bug tracking tool and send the defect found on that day to the Developer in a status end of the day email.
* As part of the Testing, I will perform the below types of Testing:
* Smoke Testing and Sanity Testing
* Regression Testing and Retesting
* Usability Testing, Functionality & UI Testing
* I repeat Test Cycle until we get the quality product.

**Step -3**: I will follow the below best practices to make the Testing better:

* Context Driven Testing - I will be performing Testing as per the context of the given application.
* Shift Left Testing – I will start testing from the beginning stages of the development itself, instead of waiting for the stable build.
* Exploratory Testing – Using my expertise I will perform Exploratory Testing, apart from the normal execution of the Test cases.
* End to End Flow Testing – I 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’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 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 validate 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 requirement, 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 –**  **Bug by Bug#,**  **Bug by Functional Area and**  **Bug 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 receive 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 Report are ready

## Test Closure

### Entry Criteria:

* Test Case Report, Defect Reports are ready

### Exit Criteria:

* Test Summary Reports

# Suspension and Resumption Criteria

Based on the Client decision, I will suspend and resume the Project and I will ramp up and ramp downs the resources as per Client needs.

# Tools

**The following are the list of Tools, I will be using in this Project:**

* Word and Excel documents
* Snipping Screenshot Tool
* Mind map Tool
* Jira, Bug Tracking Tool

# 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.**