Test PLAN

Project Name: OpenCart Web Application

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# Overview

As part of the project, ‘OpenCart’ has asked RexCon 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
* Forget 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
* Contact Us Page
* Menu Options
* Footer Options
* Category Pages

Form our understanding, we believe above functional areas need to be Tested.

## Test Environments

* Windows 10 - IE 11, Chrome, Firefox and Edge
* Mac OS - Safari Browser
* Linux Ubuntu OS – Firefox
* Android OS – Chrome
* iPhone Mobile OS - Safari

## Exclusions

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

# Test Strategy

**Functional Testing**

‘RexCon’ has communicated with ‘OpenCart’ and has understood that we need to perform Functional Testing of all the functionalities mentioned in the above Scope section of ‘https://demo.opencart.com/’ Web Application.

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

Step#1 – Creation of Testing Scenarios and Test Cases for the different features in Scope.

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

Step#2 – Our Testing process, when we get 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 dept testing of the application functionalities.
* Once we receive a stable build, that passes Smoke Testing, we perform depth testing using the Test Cases created.
* Multiple Test Resources will be testing the same Application on Multiple Supported Environments simultaneously.
* As part of the Testing, we will perform the below types of Testing,
* Smoke Testing and Sanity Testing
* Regression Testing and Retesting
* Usability Testing, UI Testing and Accessibility 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 form the beginning stages of the development itself, instead of waiting for the stable build.
* End to End Flow Testing – We will test the end-to-end scenario which involves multiple functionalities to simulate user flows.

# Problem Tracking and Test Tracking Procedures

**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 a word document.
* Test cases will be documented in an excel document.

# Roles/Responsibilities

|  |  |  |
| --- | --- | --- |
| Name | Role | Responsibilities |
| Mr. AB | Test Manager | * Escalations |
| Khalil Ur Rehman | 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. |
| John El | Senior Test Engineer | * Interact with the application * Create and Execute the Test cases. * Report defects |

# Test Schedule

Following is the test schedule planned for the project –

|  |  |
| --- | --- |
| Task | Time Duration |
| * Creating Test Plan | Dec 18th, 2023 |
| * Test Case Creation | Dec 19th, 2023 |
| * Test Case Execution | Dec 23rd, 2023 |
| * Summary Reports Submission | Dec 24th, 2023 |

# Test Deliverables

The following are to be delivered to the client:

|  |  |  |  |
| --- | --- | --- | --- |
| Deliverables | Description | Responsible Owner | Target Completion Date |
| Test Plan | Details on the scope of the Project, test strategy, test schedule, resource requirements, test deliverables and schedule | OpenCart | Dec 18th, 2023 |
| Functional Test Cases | Test Cases created for the scope defined | OpenCart | Dec 20th, 2023 |
| Defect Reports | Detailed description of the defects identified along with screenshots and steps to reproduce on a daily basis. | OpenCart | Dec 20th, 2023 |
| Summary Reports | Summary Reports –  Bugs by Bug#,  Bugs by Functional Area and  Bugs by Priority | OpenCart | Dec 24th, 2023 |

# Pricing

Will be shared by Project Manager separately.

# Entry and Exit Criteria

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

**Requirements 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

**Testing Planning**

Entry Criteria:

* Testable Requirements derived from the given Requirements Documents or Project
* Doubts are cleared

Exit Criteria:

* Test Scenarios and Test Cases Documents are signed-off by the Client

**Test Execution**

Entry Criteria:

* Test Cases Reports, Defect Reports are ready

Exit Criteria:

* Test Summery 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.