TEST PLAN

Product name: Opencart (Frontend).

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**Date: Sep 7, 2023.**

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# ☒ Overview

As per of the project,’Opencart’ asked Shadin 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.**
* **Download page.**
* **Contact us page.**
* **Menu options.**
* **Footer options.**
* **Category page.**

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

**Test Environments**

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

**Exclusion**

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

**Test Strategy**

‘Shadin’ has communication with ‘Opencart’ and has understood that we need to perform Functional testing of all functionalities mentioned in the above Scope section.

As per of Function Testing, we will follow 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 falls 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 case created.
* Multiple Test Resources will be testing the same Application Supported Environments simultaneously.
* We then report the bugs in bug tracking tools and send you 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 Testing and 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 discovery of defects, 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 the observations.

**Note:**

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

**Roles/Responsibilities:**

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **Responsibilities** |
| **Person 1** | **Test Manager** | * **Escalations** |
| **Person 2** | **Test Lead** | * **Create the Test plan and get the client signoffs.** * **Interact with the application, create and execute the test cases.** * **Report defect.** * **Coordinate the test execution verify validity of the defects begin reported.** * **Submit daily issue updates and summary defect reports to the client.** * **Attend any meeting with client.** |
| **Person 3** | **Senior Test Engineer** | * **Interact with the application** * **Create and Execute the Test cases.** * **Report defects.** |
| **Person 4** | **Test Engineer** | * **Interact with the application.** * **Execute the Test cases.** * **Report defects.** |

**Test Schedule**

Following the test schedule planned for the Project.

|  |  |
| --- | --- |
| Task | Time Duration |
| * **Creating test plan** | **Start to end Date** |
| * **Test Case creation** | **Start to end Date** |
| * **Test Case Execution** | **Start 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 deliverable and schedule | Date |
| Functional Test cases | Test cases created for the scope define | Date |
| Defect Reports | Detailed description of the identified along with screenshots and Step to reproduce on a daily basis. | N/A |
| Summary Reports | Summary Report-  Bugs by Bug,  Bugs by functional area and  Bugs by Priority | Date |

**Pricing:**

As per Project basis.

**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 Requirement are explore 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 Scenario 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.

**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 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.