Test Plan

Product Name: OpenCart (Frontend)

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Date: Aug 23, 2023

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Overview

Vrishali Bodhale has assigned herself a personal project, to test few functionalities of ‘https://demo.opencart.com/’ web application. OpenCart will be considered as client.

This document servers as a high level test planning document with details on the scope of the project, test strategy, test schedule and test deliverables.

Scope

The scope of the project includes testing following features of ‘https://demo.opencart.com/’ web application.

Inclusions

* Login and Logout
* Register new user
* Forgot password
* Homepage
* Search
* Add to cart
* Shopping cart
* My account page

From my understanding I believe above functional areas need to be tested

Test Environments

* Mac OS Ventura 13.0 – Safari, Chrome, Firefox browser
* Android Mobile OS 13 – Chrome browser

Exclusions

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

Test Strategy

Vrishali has understood that she needs to perform **functional testing** of all the functionalities mentioned in the above Scope section.

As a part of functional testing, we will follow below approach for testing:

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

We will apply several **Test Design Techniques** while creating test cases :

* Equivalance Class Partitioning
* Boundry Value Analysis
* Decision Tables
* State Transition testing
* Error guessing

We also use our expertise in creating test cases by applying below:

* **Exploratory testing**
* **Use Case testing**

We priotarize the test cases

Step 2: Our testing will start once we get application for testing

* We will peform smoke testing to check if core functionalities are working.
* We will reject the build, if smoke testing fails and wailt for stable build to perform indepth testing of functionalities.
* Once we receive stable build, which passes smoke testing, we will perform in-depth testing of functionalities using test cases created.
* We will report the bugs using the **bug tracking tool**, **Jira** and send team of the bugs status to dev and management by email, at the end of every day.
* **We will perform following type of testing:**
  + **Exploratory testing**
  + **Smoke testing**
  + **Sanity testing**
  + **Regression testing**
  + **Re-testing**
  + **Usability Testing**
  + **Functionality testing**
  + **UI testing**
  + **End to end testing**
  + **System integration testing**
  + **Cross browser testing**
* We repeat test cycles until we get quality product

Step 3 : We will follow below **best practices** to make our testing better

* **Context driven testing** : We will perform testing as per the context of the given application.
* **Shift Left testing** : We will start testing from the starting stages of the development itself, instead of waiting for the stable build.
* By using our expertise, we will perform **Exploratory testing**, apart from normal execution of the test cases.
* We will perfrom **End to End testing** which include multiple functionalities to simulate end user behaviour.

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 excel and defect will be raised in a Jira tool
* Test scenarios and Test cases will be documented in an excel document.

Roles and 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. |
| Vrishali Bodhale | Senior Test Engineer | * Interact with the application Create and Execute the Test cases. * Report defects |
| Person C | Test Engineer | * Interact with the application Create and Execute the Test cases. * Report defects |

Test Schedule is planned as follows for the project:

|  |  |
| --- | --- |
| **Task** | **Time Duration** |
| Requirement Analysis | Aug 15,2023 – Aug 20,2023 |
| Creating Test Plan | Aug 21,2023 – Aug 24,2023 |
| Test Scenario creation | Aug 25,2023 – Aug27,2023 |
| Test Case creation | Aug 28, 2023 – Aug 30,2023 |
| Test Case execution | Aug 31, 2023 – Sept 5, 2023 |
| Summary Report submission | Sept 5,2023 – Sept 7,2023 |

Test Deliverables

|  |  |  |
| --- | --- | --- |
| **Deliverable** | **Description** | **Target Date** |
| Test Plan | Details on the scope of project, test strategy, test schedule, test deliverables etc. | Aug 24,2023 |
| Test Scenarios | Test Scenarios created after understanding requirements | Aug25,2023 |
| Test cases | Test cases created for each test scenario | Aug 29,2023 |
| Requirement Traceability Matrices | Mapping of every requirement with its test cases to make sure complete coverage | Aug 30,2023 |
| Test summary Report | Completes testing summary and summary of bug report |  |

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:

* Tracking Tool JIRA
* 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.