**Test plan for E-Commerce Project**

**CONTENTS OF TEST PLAN:**

1. **Introduction-**

As part of the project, ‘OpenCart’ asked Pavan 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

**2.0 Coverage Of testing**

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

**-Features To be Tested-**

* 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 above functional areas need to be Tested. Test

**-Features Not To be Tested-**

* Newsletter
* Transaction

**3.0 Environments**

• Windows 10 – Chrome, Firefox and Edge

**4. Levels of testing**

* Module
* System Level
* User Acceptance

**4.1 Types of testing**

The list of all the types of testing that are perform in that company will be listed out here in this section.

* Sanity
* Regression
* Retesting
* End to end
* Compatibility
* Security
* Alpha

**4.2 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

1. Equivalence Class Partition
2. Boundary Value Analysis

• We prioritise 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 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:

o Smoke Testing and Sanity Testing

o Regression Testing and Retesting

o Usability Testing, Functionality & UI Testing

• We repeat Test Cycles until we get the quality product.

• End to End Flow Testing – We will test the end-to-end scenario which involve multiple functionalities to simulate the end user flows.

**5. Configuration Management Process**

The configuration management process is comprised of 5 disciplines that will establish a product’s baseline, and manage any changes over time.

**Planning and Management**: This guides the design of the product, who has what responsibilities, and includes which **tools and procedures to use**. It identifies **third-party requirements** and the audit and review process.

**Identification**: Allows for setting baselines and identifying the configuration of assets (hardware) and/or software.

**Control**: Maintain control of configurations, change requests, and execution of changes to a system and its documentation.

**Status Accounting**: The process of recording and reporting configuration item descriptions and changes from the baseline over the item’s life-cycle. If a problem arises, this allows for a quick determination of the baseline configuration and changes that have taken place over time.

**Verification/Audit**: Be able to audit what you have implemented and maintain positive control of all managed product

**6. Test Metrics**

The list of all the metrics that are maintained in that company will be listed out clear in this section. (Noted in strategy document)

Test Execution by tester (Sprint)

Test Execution by test cycle

Test execution by dates

**7. List of automated tool**

The list of all the automated tools that are used in that company will be mentioned here in this section.

* Selenium
* Cucumber

**8.0** **Base criteria:**

**8.1 Acceptance criteria**

When to stop the testing on that application will be clearly mention in this section.

* All possible test cases executed
* Maximum defects fixed, Final Regression performed successfully
* Confidence on Test process
* Time Limitations
* Budget Limitations

**8.2 Suspension criteria**

When to suspend the testing on suspend the build will be clearly mention here in this section.

* Show-Stopper bug found
* Vast changes in requirements
* If resolving defects are more

**9.0** **Test deliverable**

The list of all the documents that are to be prepared and delivery during the process will be mentioned here in this section.

Test deliverables are provided as below

**Before testing phase**

* Test plans document.
* Test cases documents
* Test Design specifications.

**During the testing**

* Test Tool Simulators.
* Test Data
* Test Trace-ability Matrix - Error logs and execution logs.
* Forward traceability

**10.0** **Resource planning**

Who has to do what will be planned mentioned here in this section.

**11.0 Scheduling**

The starting date and ending date of each and every task will be plan and mentioned here in this section.

Quarterly release dates will be mentioned here.

Regression testing dates mentioned here before closing every sprint.

**12.0 Staff & training**

How much staff need to be recruited and what kind of training need to be provide will be mentioned here in this section.

* Training Program on Trading Domain
* Test Automation Training using Selenium, Cucumber Tool

**13.0** **Risk and contingency**

The list of all the potential risk that may occur during the process and corresponding solution plan will be mentioned here in this section.

**Ex**: i. employee may leave a organization middle of the project

         ii. unable to deliver the project within the deadlines

        iii. Customer may impose the dead lines

         iv. unable to test all the features within the given time

   Contingency:

Ø  employee need to be maintain on bench

Ø  what not be tested should be plan in case of imposed dead line

Ø  Proper plan ensure

Ø  Priority base execution (High or Highest priority tests executed only)

**14.0 Assumption**

The list of all the assumption that needs to be assumption by a test engineer will be listed out here in this section.

**15.0 Approval information**

Who has approved this document and when it is approved will be mention here this status.