**TEST PLAN Product Name: Open Cart Application**

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**Overview:**

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 Page

• Contact Us Page

• Menu Options

• Footer Options

• Category Pages

**Test Environments:**

• Windows 10 – Chrome, Firefox and Edge

• Mac OS – Safari Browser

• Android Mobile 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:**

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

o Equivalence Class Partition

o Boundary Value Analysis o Decision Table Testing

o State Transition Testing

o Use Case Testing

• We also use our expertise in creating Test Cases by applying the below:

o Error Guessing

o Exploratory Testing

• 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.

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 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.

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

**Roles/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.

**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:**

▪ 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:**

**Test Plan:**

Details on the scope of the Project, test strategy, test schedule, resource requirements, test deliverables and schedule

**Functional Test Cases:**

Test Cases created for the scope defined

**Defect Reports:**

Detailed description of the defects identified along with screenshots and steps to reproduce on a daily basis.

**Summary Reports**:

Bugs by Bug#, Bugs by Functional Area and Bugs by Priority,Pricing

**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

**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:

• JIRA

• 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.