

Test Plan

Product name: opencart(frontend)

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OVERVIEW

As part of the project, 'OpenCart' functionalities are to be tested ABHISHNA K U.

This document serves as a 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

From our understanding, I believe the above functional areas need to be Tested.

TEST ENVIRONMENTS

- Windows 10 – Chrome, Firefox and Edge

- Android Mobile OS – Chrome

EXCLUSIONS

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

TEST STRATEGY

understood that I need to perform Functional Testing of all the functionalities mentioned in the above Scope section.

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 Design 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 fails and will wait for the stable build before performing in-depth testing of the application functionalities.
- Once we receive a stable build, that 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 the bug tracking tool and send dev. management

of the defect found on that day in a status end-of-the-day email.

- As part of the Testing, we will perform the following 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.

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 a defect, it will be retested to verify the 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 Excel.
- Test scenarios and Test cases will be documented in an Excel document.

ROLES AND RESPONSIBILITIES

NAME	ROLE	RESPONSIBILITIES
Person A	Test Lead	<ul style="list-style-type: none">• 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 the validity of the defects being reported.• Submit daily issue updates and summary defect reports to the client.• Attend any meeting with client.
Person B	Senior Test Engineer	<ul style="list-style-type: none">• Interact with the application• Create and Execute the Test cases.• Report defects
Person C	Test Engineer	<ul style="list-style-type: none">• Interact with the application• Execute the Test cases.• Report defects

TEST SCHEDULE

Following is the test schedule planned for the project –

TASK	DURATION
Creating Test Plan	
Test case Creation	
Test case Execution	
Summary Report Submission	

TEST DELIVERABLES

Deliverables	Description	Completion Date
Test Plan	Details on the scope of the Project, test strategy, test schedule, resource requirements, test deliverables and schedule	
Functional Testcases	Test Cases created for the scope defined.	
Defect Reports	A detailed description of the defects identified along with screenshots and steps to reproduce daily.	
Summary Reports	Summary Reports – Bugs by Functional Area and Bugs by Priority	

ENTRY AND EXIT CRITERIA

Requirement Analysis

Entry Criteria:

- Once the testing team receives the Requirements Documents or details about the Project

Exit Criteria:

- A list of Requirements is 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:

- The 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
- The 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's 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 MITIGATION

The following is the list of risks possible and the ways to mitigate them:

Risk: Non-Availability of a Resource

Mitigation: Backup Resource Planning

Risk: The 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's needs dynamically

APPROVALS

The 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.