TEST PLAN

Product Name:
OpenCart

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Overview

As a part of the project, ‘OpenCart’ asked Aman 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
- Downloads Page
- Product Compare
- Add to Cart
- Product Display Page
- Wish List
- Order History Page
- Shopping Cart
- Currencies
- Home Page
- Checkout Page
- My Account Page
- Menu Options
- Footer Options

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

Test Enviroments

- Kali Linux - Chrome, Firefox, Brave
- Windows 10 Home - Chrome, Firefox, Brave and MS Edge
- Mac OS - Safari Browser
- 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

‘Aman’ has communicated with ‘OpenCart’ and has understood that we 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 01: Creation of Test Scenarios and Test Cases for the different features in scope.

We will apply several Test Designing techniques while creating Test Cases

I. Equivalence Class Partition
II. Boundary Value Analysis
III. Decision Table Testing
IV. State Transition Testing
V. Use Case Testing

I also use my expertise in creating Test Cases by applying the below:

I. Error Guessing
II. Exploratory Testing

I prioritise the Test Cases

Step 02: My testing process, when we get an Application for Testing:

I. Firstly, i will perform Smoke Testing to check whether the

different and important functionalities of the application are working.

II. I reject the build, if the Smoke Testing fails and will wait for the stable build before performing in depth testing of the application functionalities.
III. Once i receive a stable build, which passes Smoke Testing, I perform in depth testing using the Test Cases created.
IV. Multiple Test Resources will be testing the same application on multiple supproted enviroments simultaneously.
V. Then i report the bugs in bug tracking tool and send dev. management the defect found on theat day in a status and of the day email.
VI. As a part of the Testing, i will perform the below types of the Testing:
    - ➢ Smoke Testing and Sanity Testing
    - ➢ Regression Testing and Retesting
    - ➢ Usability Testing, Functionality & UI Testing
VII. I repeat Test Cycles until i get the quality product.

Step 03: I will follow the below best practices to make our Testing better:

I. Context Driven Testing - I will be performing Testing as per the context of the given application.
II. Shift Left Testing - I will start testing from the beginning stages of the development itself, instead of waiting for the stable build.
III. Exploratory Testing - Using my expertise i will perform Exploratory Testing, apart from the normal execution of the Test Cases.
IV. End to End Flow Testing - I 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 set along with the observations.

Note:

- ❖ Defect will be documented in a excel.
- ❖ Test Scenarios and Test cases will be documented in an excel document.

Roles/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 defect 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 applicaion ❖ Execute the test cases. ❖ Report defects.

Test Schedule

Following the test schedule planned for the project -

Task	Time Duration
Creating Test Plan	TBA
Test Case Creation	
Test Case Execution	
Summary Reports Submission	

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 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 step to reproduce on a daily basis.	NA
Summary Reports	Summary Reports - Bugs by Bug#, Bugs by Functional Area and Bugs by Priority	

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
- ❖ Doubt are cleared

Test Planning

Entry Criteria:

- ❖ Testable Requirements derived from the given requirements documents or project details
- ❖ Doubt 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 Scnearios 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 repors 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 Projects:

I. XYZ Bug Tracking Tool
II. Mindmap Tool
III. Snipping Screenshot Tool

IV. 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.