Test Plan

Project Name - OpenCart

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Objective:

As part of the project ‘Open Cart’, ‘Your Store’ asked ‘Rashmi’ to test a few functionalities of the “https://demo.opencart.com/” web application. This document serves as a high-level test planning document with details on the project's scope, test methodology, test schedule and test deliverables.

Test Strategy:

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

In-Scope:

- My Account
- Register
- Login
- Logout
- Wish List
- Shopping Cart
- Checkout
- Currencies
- Search
- Home Page
- Order History
- Downloads
- Contact Us
- Menu Options
- Product Compare Page
- Product Display Page
- Category Page
- Footer Options

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

Out-Scope:

- All the features except those mentioned in ‘In-scope’.
- Third-Party Applications and Third-Party Payment Gateways.

Test Methodologies:

‘Rashmi’ has communicated with ‘Your Store’ and understood that we need to perform functional testing on all the functionalities mentioned in the above ‘Inclusions’ 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 designing techniques while creating test cases -
  - Equivalence Class Partition
  - Boundary Value Analysis
  - Decision Table Testing
  - State Transition Testing
  - Use Cases Testing

- We will also use our expertise in creating test cases by applying the following-
  - Error Guessing
  - Exploratory Testing

- We will prioritise the test cases.

Step 2: When we get an application for testing, we will -

- Initially, perform smoke testing to check whether the different and essential 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 simultaneously test the same application on multiple supported environments.
- We then report the bugs in Jira and send them to the development and management teams via email at the end of the day.
- As part of the Testing, we will perform the below types of testing-
  - Smoke Testing & Sanity Testing
  - Regression Testing & Retesting
  - Usability Testing, UI Testing & Accessibility Testing
- We will 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 per the given application's context.
- 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 Testing – We will test the end-to-end scenario which involves multiple functionalities to simulate the end user flows.

Suspension & 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.

Risks and Mitigation Plan:

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

Risk	Mitigation
Non-availability of a resource	Backup resource planning
The built URL is not working	Resources will work on other tasks
Less time for testing	Ramp up the resources as per the client's needs

Roles And Responsibilities:

Name	Role	Responsibilities
ABC	Test manager	• Escalations
DEF	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 and validate the defects being reported. • Submit daily issue updates • Submit defect reports to the client. • Attend meetings with the client.
GHI	Senior test engineer	• Interact with the application • Create and execute the test cases. • Report defects
JKL	Test Engineer	• Interact with the application • Execute the test cases. • Report defects

Schedule:

Following is the test schedule planned for the project –

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

Defect Tracking:

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 would not be reported as an observation/issue or posed as a question.
- Any usability issues will also be reported.
- After the 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.

Test Environments:

- Windows 10 – Chrome
- Windows 10 – Firefox
- Windows 10 – Edge
- Android- Chrome

Entry And Exit Criteria:

Below are the entry and exit criteria for every phase of the Software Testing Life Cycle-

Phase	Entry Criteria	Exit Criteria
Requirement Analysis	Once the testing team receives the requirements documents or details about the project.	• List of requirements is explored and understood by the testing team. • Doubts are cleared.
Test Planning	• Testable requirements derived from the given requirements documents or project details • Doubts are cleared	The Test Plan document (including Test Strategy) is signed off by the client

Test Designing	The Test Plan document is signed off by the client	Test Scenarios and Test Case documents are signed off by the client
Test Execution	• Test Scenarios and Test Cases documents are signed off by the client • Application is ready for testing	Test Case Reports Defect reports are ready
Test Closure	Test Case Reports Defect reports are ready	Test Summary reports

Test Automation:

The following are to be automated-

- My Account
- Wishlist
- Checkout
- Search

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 and test deliverables	
Functional Test Cases	Test Cases created for the scope defined	
Defect Reports	A detailed description of the defects identified, screenshots, and steps to reproduce daily.	NA
Summary Reports	Summary reports – bugs by functional area and bugs by priority	

References

1. CRS
2. SRS
3. FS
4. Design document