TEST PLAN

Product Name: OpenCart (Frontend)

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Overview

XYZ Software Solutions has been engaged by 'OpenCart' to conduct testing on various functionalities of the 'https://demo.opencart.com/' ecommerce application. This high-level test plan outlines the project's scope, test strategy, schedule, resource requirements, and deliverables.

Scope

The project scope encompasses testing the following features of the 'https://demo.opencart.com/' web application:

- User Register
- User Login & Logout
- Forgot Password
- Product 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 11 – Chrome and Edge
- Mac OS – Safari Browser
- Android Mobile OS – Chrome
- iPhone Mobile OS - Safari

Exclusions

- Features not explicitly mentioned in the "Inclusions" section
- Any third-party features or payment gateways

Test Strategy

XYZ Software Solutions will conduct Functional Testing of all specified features. The testing approach involves:

1. **Test Scenario and Test Case Creation:**
    - Utilizing various techniques including Equivalence Class Partition, Boundary Value Analysis, Decision Table Testing, State Transition Testing, and Use Case Testing.
    - Incorporating expertise-based methods such as Error Guessing and Exploratory Testing.
    - Prioritizing Test Cases.
2. **Testing Process:**
    - Conducting Smoke Testing initially.
    - Rejecting builds failing Smoke Testing and waiting for a stable build.
    - Performing in-depth testing on stable builds.
    - Simultaneously testing on multiple supported environments.
    - Reporting bugs daily to the development team.
3. **Types of Testing:**
    - Smoke Testing and Sanity Testing
    - Regression Testing and Retesting
    - Usability Testing, Functionality & UI Testing
4. **Best Practices:**
    - Context Driven Testing
    - Shift Left Testing
    - Exploratory Testing
    - End to End Flow Testing

Defect Reporting Procedure:

During test execution, any deviation or usability issue will be noted, documented, and reported daily, including screenshots and steps for reproducibility. Defects will be recorded in an Excel sheet, and test scenarios/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 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

Following is the test schedule planned for the project –

Task	Time Duration
▪ 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

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	Date

Functional Test Cases	Test Cases created for the scope defined	Date
Defect Reports	Detailed description of the defects identified along with screenshots and steps to reproduce on a daily basis.	NA
Summary Reports	Summary Reports – Bugs by Bug#, Bugs by Functional Area and Bugs by Priority	Date

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

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:

- XYZ Bug Tracking Tool
- Mind map Tool
- 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.