TEST PLAN:

Table of Contents

---

1. Overview

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.

---

2. Scope

The scope of the project includes testing the following features of the 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
- **MacOS** – Safari Browser
- **Android Mobile OS** – Chrome
- **iPhone Mobile OS** – Safari

Exclusions

All features except those mentioned under 'Inclusions'

---

3. Test Strategy

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 1 – Creation of Test Scenarios and Test Cases

We will create test scenarios and test cases for the different features in scope by applying several test designing techniques:

Test Design Techniques:

- Equivalence Class Partition
- Boundary Value Analysis
- Decision Table Testing
- State Transition Testing
- Use Case Testing

Additional Expertise:

- Error Guessing
- Exploratory Testing

We will prioritize the test cases based on criticality and business impact.

Step 2 – Testing Process

When we receive an application for testing, we will follow this process:

1. **Smoke Testing** – First, we will perform smoke testing to check whether the different and important functionalities of the application are working.
2. **Build Validation** – We reject the build if smoke testing fails and will wait for a stable build before performing in-depth testing of the application functionalities.
3. **In-Depth Testing** – Once we receive a stable build that passes smoke testing, we perform in-depth testing using the test cases created.
4. **Parallel Execution** – Multiple test resources will be testing the same application on multiple supported environments simultaneously.
5. **Defect Reporting** – We then report the bugs in the bug tracking tool and send development management the defects found that day in an end-of-day status email.

Types of Testing:

- Smoke Testing and Sanity Testing
- Regression Testing and Retesting
- Usability Testing, Functionality & UI Testing

We will repeat test cycles until we achieve a quality product.

Step 3 – Best Practices

We will follow these 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 test cases.

- **End-to-End Flow Testing** – We will test end-to-end scenarios that involve multiple functionalities to simulate the end user flows.

---

4. Defect Reporting Procedure

During test execution:

- Any deviation from expected behavior by the application will be noted. If it can't be reported as a defect, it will 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 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.

---

5. Roles/Responsibilities

Name	Role	Responsibilities
Person A	Test Manager	• Escalations
Person B	Test Lead	• Create the test plan and get client sign-offs • Interact with the application, create and execute test cases • Report defects • Coordinate test execution and verify validity of defects being reported • Submit daily issue updates and summary defect reports to the client • Attend any meetings with client
Person C	Senior Test Engineer	• Interact with the application • Create and execute test cases • Report defects
Person D	Test Engineer	• Interact with the application • Execute test cases • Report defects

---

6. 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

---

7. 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 including: • Bugs by Bug# • Bugs by Functional Area • Bugs by Priority	Date

---

8. Pricing

NA

---

9. Entry and Exit Criteria

The below are the entry and exit criteria for every phase of the 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 and defect reports are ready

Test Closure

Entry Criteria:

- Test case reports and defect reports are ready

Exit Criteria:

- Test summary reports

---

10. 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.

---

11. Tools

The following are the list of tools we will be using in this project:

- Bug Tracking Tool
- Mind Map Tool
- Snipping Screenshot Tool
- Word and Excel Documents

---

12. Risks and Mitigations

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

Risk	Mitigation
Non-Availability of a Resource	Backup Resource Planning
Build URL is not working	Resources will work on other tasks
Less time for Testing	Ramp up the resources based on the client needs dynamically

13. Approvals

The team will send different types of documents for client approval:

- Test Plan
- Test Scenarios
- Test Cases
- Reports

Testing will only continue to the next steps once these approvals are done.