LOGO - [Company Name]

Opencart Front-end

Test Plan

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Name 1	Position 1	Sign1	Date1
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Catalog

1. **Introduction**

As a part of Systems Integration Testing(SIT) we will test functionalities of the web application “https://demo.opencart.com/” based on the project scope.

2. **Scope**

In scope and out of scope of the SIT are as given below.

2.1 In Scope

Following modules are within the scope of SIT.

- Register
- Login
- Logout
- Search
- Product Display
- Add to Cart
- Shopping Cart
- Check Out
- Forgot Password
- Home Page
- Wish List
- My Account
- My Account Information
- Change Password
- Address Book
- Order History
- Order Information
- Product Returns
- Downloads
- Reward Points
- Return Requests
- Your Transactions
- Recurring Payments
- Compare Products
- Affiliate

- News Letter
- Contact Us
- Special Offers
- Gift Certificate
- Currency
- Header
- Footer
- Menu

2.2 Out of Scope

Following are out of the scope of SIT.

- Any functionalities not listed under “In Scope”
- Any back end functionalities performed by admin
- Any third party plug-in features
- Payment Gateway
- Test Automation

3. **Test Environment**

Application will be testing in the environments as specified below.

#	Operating System	Browsers
1	Windows 10	Google Chrome, Firefox, Opera, Safari, Edge
2	Mac OS	Safari
3	Android Mobile OS	Chrome
4	iPhone Mobile OS	Safari

4. **Test Methodology / Test Strategy**

To perform the functional testing of the functionalities listed under “In Scope” we will follow the below approach.

Step 1: Creation of Test Scenarios and Test Cases

We will apply several test design technique given below while creating the test cases.

- Equivalence Class Partition (ECP)
- Boundary Value Analysis (BVA)
- Decision Table Testing
- State Transition Testing
- Use Case Testing

We will also use our experience and expertise in creating test cases by using below approach:

- Error Guessing
- Exploratory Testing

Test cases will assigned priority based on importance and dependency of the function.

Step 2 : Testing process when build is delivered for testing

Firstly we will perform smoke testing to verify whether important functionalities of the application are working.
We will reject the build if the smoke testing fails, we will wait for stable build before performing in-depth testing of the application functionalities.
Once stable build is received which passes the smoke testing, we perform in-depth testing using the test cases created.
Multiple testing resources will be testing same application on multiple supported environments simultaneously.

We report the bugs in bug tracking tool and send the test execution summary report and defect report in end of day email.

We will perform the below types of testing:

- Smoke Testing and Sanity Testing
- Regression Testing and Re-Testing
- Usability Testing, Functionality Testing and UI Testing

We repeat the test cycle until we get the quality product.

Step 3: We will follow best practice approach to make our testing more effective.

Context Driven Testing - We will be performing testing as per the context of the given application.
Early Testing/Shift Left Testing - We will start testing activities from beginning stages of SDLC using reviews, walk through and Inspections instead of waiting for build (By using the BRS and FRS documents, use case etc).

Exploratory - Using our testing experience and expertise we will perform exploratory testing, apart from execution of test cases.

End-to End Testing :- We will test end to end scenario which involve multiple functionalities to simulate the end user usage of the application.

5. **Defect Reporting Procedure**

During test execution, any deviation of actual result from the expected result will be noted. If it can not be reported as a defect/bug, it will be reported as an issue/observation or posted as a question. Any usability issues will also be reported.

After discovery of a defect it will be retested to verify reproducibility of the defects, screenshots with steps to reproduce are documented. Everyday at the end of the test execution defects reports will be sent along with the number of impacted test cases.

Defects will be documented in excel. Test scenarios and test cases will also be document in excel.

6. **Roles and Responsibilities**

During the course of testing activities, role and responsibilities will be as given in the below table.

Name	**Role**	**Responsibilities**
Name 1	Test Manager	Test Resources Escalations Test Sing-off
Name 2	Test Lead	Creating test plan and get client sign off Interact with application, create and execute test cases Coordinate the test execution Verify the validity of the defects being reported Submit daily issues updates and bug reports Submit daily test execution/test progress summary report Attend the meetings
Name 3	Senor Test Engineer	Interact with the application Create and execute the test cases Report the defects
Name 4	Test Engineer	Interact with the application Execute the test cases Report the defects
Name 5	Test Engineer	Interact with the application Execute the test cases Report the defects

7. **Test Schedule**

Following is the planned test schedule for this project.

Task	**From Date**	**To Date**	**Number of Days**
Test Plan Creation	dd-mmm-yy	dd-mmm-yy	15
Test Case Creation	dd-mmm-yy	dd-mmm-yy	30

Test Case Execution	dd-mmm-yy	dd-mmm-yy	45
Summary Reports Submission	dd-mmm-yy	dd-mmm-yy	2

8. **Test Deliverables**

Following are the test deliverables at various stages of testing life cycle.

Deliverable	**Description**	**Target Completion Date**
Test Plan	Details of scope, test strategy , test schedule, resource requirements	dd-mmm-yy
Test Cases	Test cases created for the scope defined	dd-mmm-yy
Defect Reports	Detailed description of the defects identified along with screenshot and steps to reproduce the defect	NA
Test Summary Report	Test Case Summary: Number of test cases executed, pass, fail, Not applicable. Bugs Summary: Bugs by bug number Bugs by functional area Bugs by priority	dd-mmm-yy

9. **Entry and Exit Criteria**

Below are the entry and exit criteria for every phase of Software Testing Life Cycle(STLC).

STLC stage	**Entry Criteria**	**Exit Criteria**
Requirement Analysis	Once testing team receives project related documents such as BRS, FRS, Use Cases etc	Document explored and understood by the test team Doubts are cleared

Test Planning	Testable requirements derived from given documents Doubts are cleared	Test Plan document signed off (by product manager/BA/ any concerned stake holders)
Test Designing	Test Plan document signed off	Test scenarios and Test cases documents are signed off (by product manager/BA/ any concerned stake holders)
Test Execution	Test scenarios and Test cases documents are signed off Application is ready for testing	Test case execution reports and Defect reports are ready
Test Closure	Test case execution reports and Defect reports are ready	Test Summary Reports

10. **Suspension and Resumption Criteria**

Based on the decision of Product manager/management we will suspend and resume the testing.

11. **Tools**

Following are the list of tools that will be used for testing this project.

- Bug Tracking Tool
- Word Document
- Excel Document
- Snipping Snapshot tool

12 **Risks and Mitigations**

Following are the possible risks and possible ways to mitigate these risks.

Risks	**Mitigations**
Non-availability of resource	Backup resource planning
Build not working	Resource will work on other tasks

Less time for testing	Ramp up the resources based on the needs

13. **Approvals**

Following documents will be sent for stakeholders approval.

- Test Plan
- Test Scenarios
- Test Cases
- Test Summary Report/Test Sign-off form

Testing will continue to next stage only when documents of the previous stage approved.

14. **Terms/Acronyms**

TERM/ACRONYM	DEFINITION
SIT	Systems Integration Testing
ECP	Equivalence Class Partition
BVA	Boundary Value Analysis
UI	User Interface