

# **Test Plan**

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## Overview:

As a part of projects 'OpenCart' is a web application where to test functionality of 'https://demo.opencart.com'

This document serves as high level test planning documents with details on the scope of the projects.

## Scope:

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

### Inclusions:

- Register
- Login & Logout
- Forget password
- Search
- Product compare
- Product display page
- Wish list
- Shopping cart
- Currencies
- Add to cart
- Home page
- Checkout page
- My Account page
- Order history page
- Download page
- Contact us page
- Menu option
- Footer option
- Category option

### Test Environment:

- Windows 10 – Chrome, Firefox
- Mac OS – Safari Browser
- Android Mobile OS – Chrome
- iPhone Mobile OS – Safari

## Exclusions:

- All the features expected that are mentioned under 'Inclusions'
- Any third-party features or payment gateways
- Test Automations

## Test Strategy:

- **Step1:** 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 case testing
  - We also use our expertise while creating test cases
    - Exploratory testing
    - Error guessing
  - We prioritize the test cases
- **Step2:** Testing process
  - Firstly, perform **Smoke testing** to check whether the different and important functionality of the application are working
  - Reject the build, if smoke testing fails and wait for stable build
  - Receive the stable build, which passes smoke testing, we perform in-depth testing using the test case created
  - Multiple test resources will be testing in same application
  - Then we report the bug in bug tracking tools and send dev, management. The defect found on that day in a status end of the day email
  - We perform below testing
    - Smoke & sanity testing
    - Regression and retesting
    - Usability testing, Functional & UI testing
  - We report test cycle until we get the quality products
- **Step3:** We follow the below best practice to make our testing better
  - Context driven testing
  - Shift left testing
  - Exploratory testing
  - End to End testing

## Defect Reporting Procedure: During the test execution

- Any deviation from expected behavior by the application will be noted. If it can't be reported as a defect, it would be reported as an issue or posed as a question
- Any usability issue will be noted
- After recovering the defect it will be retested to verify reproducibility of the defect and screenshot of the reproduction to be documented
- Everyday, at the end of the test execution, defects encountered will be sent along with the observations
- Defect, Test scenario & test case will be documented in an excel

## Role:

Name	Role	Responsibilities
Person A	Test Manager	<ul style="list-style-type: none"><li>• Escalations</li></ul>
Person B	Test Lead	<ul style="list-style-type: none"><li>• Create the test plan and get the client signoffs</li><li>• Interact with the application, create and execute the test cases</li><li>• Report defects</li><li>• Attend any meeting with clients</li><li>• Submit daily issues update</li><li>• Verify the validity of the defects being reported</li></ul>
Person C	Senior Test Engineer	<ul style="list-style-type: none"><li>• Interact with the applications</li><li>• Create and execute the test cases</li><li>• Report defects</li></ul>
Person D	Test Engineer	<ul style="list-style-type: none"><li>• Interact with the applications</li><li>• Execute the test cases</li><li>• Report defects</li></ul>

## Test Schedule:

Time	Time Durations
Create test plan	Start date to end date
Test case creation	Start date to end date
Test case Execution	Start date to end date
Summary report submission	Date

## Test Deliverables:

Deliverables	Descriptions	Target completion date
Test plan	Details on the scope of the projects, test strategy, test schedule, resource requirements, test deliverables and schedule	Date
Functional test cases	Test case created for the scope defined	Date
Defects reports	Detailed description of the defects, identified along with screenshot, steps to reproduce on a daily basis	N/A
Summary reports	Bugs by b bugs, bugs by functional area, bugs by priority	Date

**Pricing:** N/A

**Entry and Exit Criteria:** It happens for every phase of **STLC** cycle

- **Requirements Analysis:**
  - **Entry criteria:**
    - Receive the requirements doc about the project
  - **Exit criteria:**
    - List of requirements are understood by testing team
    - Doubts are cleared
- **Test planning:**
  - **Entry criteria:**
    - Testable requirements derived from the given requirements doc
    - Doubts are cleared
  - **Exit criteria:**
    - Test planed doc (include tests strategy) is signed-off by the client

- **Test designing:**
  - **Entry criteria:**
    - Test plan doc is signed-off by the client
  - **Exit criteria:**
    - Test scenario and test case doc are signed-off by the client
- **Test execution:**
  - **Entry criteria:**
    - Test scenario and test case doc are signed-off by the client
    - Application is ready for testing
  - **Exit criteria:**
    - Test case reports, defects reports are ready
- **Test Closure:**
  - **Entry criteria:**
    - Test case reports, defects 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:**

- XYZ bug tracking tools
- Mind map tools
- Snipping screenshot tools
- Word and excel doc

## **Risks and Mitigations** (means how to overcome to problems):

- Risks: Non-availability of a resource
- Mitigations: Backup resource planning
- Risks: Build URL is not working
- Mitigations: Resources will work on others task
- Risks: less time for testing
- Mitigations: Ramp up the resource based on the clients needs dynamically

## **Approvals:**

Team will send different types of soc for client approval like

- Test plan
- Test scenario
- Test cases
- Reports

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