

## **TEST PLAN**

### **Ecommerce website**

Product Name-OPEN KART

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## Overview

As part of the project, 'Open Kart' asked to test few functionalities of the web application.  
<https://demo.opencart.com/>

This document serves as high level test planning document with details on the scope of the project, test strategy, test schedule and resource requirements, test deliverables and schedule.

## Scope

The Scope of the project includes testing the following features of the application.

## Inclusions

- Register
- Login and Logout
- Forgot Password
- Add to cart
- Search
- Wishlist
- Shopping cart
- Home page
- Checkout Page
- My Account Page
- Currencies

From our Understandings, the above functional areas need to be tested.

## Test Environments

- Windows 10 - Chrome, Firefox, Edge
- Mac OS - Safari Browser

## Exclusions

- All features except that are mentioned under 'Inclusions'.
- Any third-party Features

## Test Strategy

We have walk through the all requirements and understood that we need to perform the Functional testing of the all functionalities mentioned in the Scope section.

As the part of the functional testing we will follow the below approach for testing.

## Step-1

Creation of the Test Scenarios and Test cases for the different features in the scope.

- We will apply different Test Designing techniques While creating the test cases.
  - Equivalence Class partitioning
  - Boundary Value Analysis.
  - Decision Table Testing .
  - State Transition Testing.
  - Use Case Testing.
- We also use our expertise in creating Test Cases by applying the below:
  - Error Guessing.
  - Exploratory Testing.
- We prioritise the Test Cases

## Step-2

Our Testing process, when we get an Application for Testing:

- Firstly, we will perform Smoke Testing to check whether the different and important 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 be testing the same Application on Multiple Supported Environments simultaneously.
- We then report the bugs in bug tracking tool and send dev. management the defect found on that day in a status end of the day email.
- As part of the Testing, we will perform the below types of Testing:
  - Smoke Testing and Sanity Testing.
  - Regression Testing and Retesting.
  - Usability Testing, Functionality & UI Testing.
- We repeat Test Cycles until we get the quality product.

## Step-2

We will follow the below 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 the Test cases.
- End to End Flow Testing – We will test the end-to-end scenario which involve multiple functionalities to simulate the end user flows.

## Defect Reporting Procedure:

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'd 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 the test execution, defects encountered will be sent along with the observations.

Note:

- Defects will be documented in a excel.
- Test scenarios and Test 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 Execution	Start Date to End Date
Summary Report Submission	Start Date to End 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

**Pricing** - Pricing is estimated based on the clients requirements and feasibility of the Requirements.

## 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