opencart
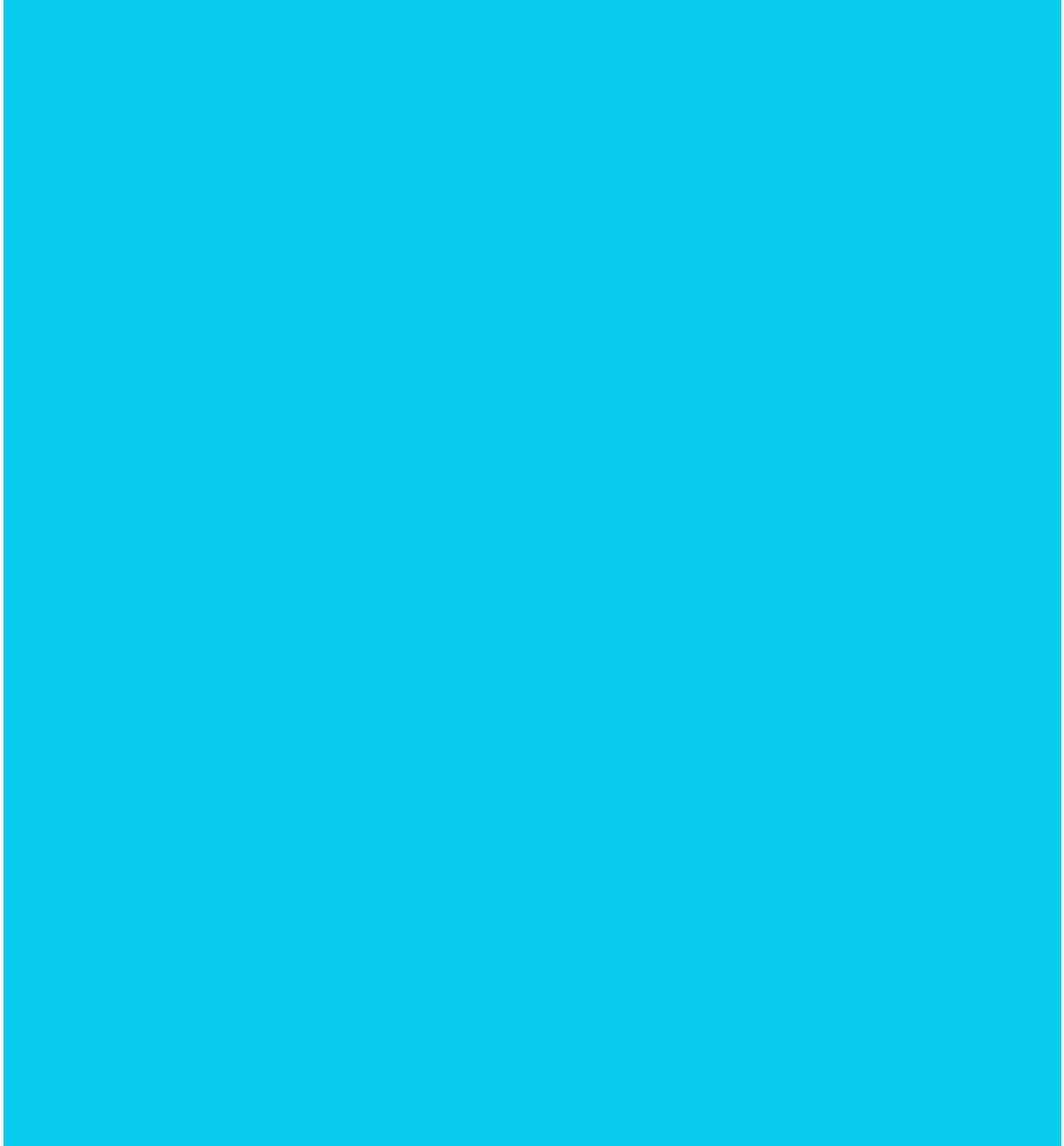
TEST PLAN DOCUMENT

Product Name: OpenCart (Frontend)

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Overview

This test plan is for the E-Commerce Application OpenCart, version 1.0. The objective of this testing is to ensure that the application meets the requirements and is free of defects. This document serves as high level test planning document with details on the scope of the project, test strategy, test schedule, resource requirements and test deliverables.

Scope

The scope of the project includes testing the following features of '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

- Operating System: Window 10
- Browser: Google Chrome, Firefox and Edge

Exclusions

- All the features except that are mentioned under 'Inclusions'
- Any third-party features or Payment gateways
- Test Automation

Test Approach/ Strategy

Manual testing will be used to test all the features/functionalities of the OpenCart application. As a part of functional testing, following approach will be followed.

Step#1 – Creation of Test Scenarios and Test Cases for the different features in
scope.
• We will apply several Test Designing techniques while creating Test Cases
o Equivalence Class Partition
o Boundary Value Analysis
o Decision Table Testing
o State Transition Testing
o Use Case Testing
• We also use our expertise in creating Test Cases by applying the below:
o Error Guessing
o 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:
o Smoke Testing and Sanity Testing
o Regression Testing and Retesting
o Usability Testing, Functionality & UI Testing
• We repeat Test Cycles until we get the quality product.

Step#3 – 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 Case Execution	Start Date to End Date
▪ Summary Reports Submission	Date

Test Deliverables

- Test Cases
- Test Reports
- Defect Reports

Entry and Exit Criteria

STLC Phase	Entry	Exit
Requirement Analysis	Once the testing team receives the Requirements Documents or details about the Project.	List of Requirements are explored and understood by the Testing team Doubts are cleared
Test Planning	Testable Requirements derived from the given Requirements Documents or Project details. Doubts are cleared.	Test Plan document (includes Test Strategy) is signed-off by the Client.
Test Design	Test Plan Document is signed-off by the Client.	Test Scenarios and Test Cases Documents are signed-off by the Client.
Test Execution	Test Scenarios and Test Cases Documents are signed-off by the Client. Application is ready for Testing.	Test Case Reports, Defect Reports are ready
Test Closure	Test Case Reports, Defect Reports are ready.	Test Summary Reports.

Tools

The following are the list of Tools we will be using in this Project:

- Bug Tracking 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.