Opencart Test Summary Report

Version-1.0

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Document History

Document Creation History				
Version	Author	Date	Contact Details	Description of Change
1.0	Kuldeep Patil	28-05-2024	abc@gmail.com	Test summary report is created

Document Revision History			
Version	Reviewer	Review Date	Description of Review
1.0	GHI (Test Lead)	29-05-2024	Everything is alright.
	XYZ (Test Manager)	29-05-2024	Test Summary report is good.

Project Team

Role		Name
Project Manager		MNO
Development Team	Senior Software Engineer	ABC
	Software Engineer	EFG
	Software Engineer	JKL
Testing Team	Test manager	XYZ
	Test Lead	GHI
	Test Engineer	Kuldeep Patil
	Test Engineer	PQR

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1. Introduction

The test summary report for the Opencart web application (Version-1.0) outlines the activities that carried out during the testing cycle. It specifies test objective, application overview, testing scopes including in scope and out of scope, test approach, test environment, testing metrics, defect summary, overall summary and it is prepared after the end of testing process. The test summary report give valuable insights to the senior management about the fitness of the Opencart web application for release.

2. Test Objective

For Opencart project the test objectives are listed below:

- Develop Opencart product according to the customer specifications ensuring high quality performance.
- Ensures registration and login page functionalities works effortlessly.
- All the products available in the store can be accessed and can be viewed with detail information.
- All users can seamlessly add any products to the cart and complete purchases from the checkout features.
- Ensure user can submit reviews of any products.
- Gift voucher functionality can successfully send any type of gift voucher to the user preferred recipient without causing any error.
- All defects must be identified, tracked and solved before release.
- Ensure all functionalities of Opencart are defect free in the final release. Prioritize fixing medium and high priority defects before release while addressing low priority defects depend on the client preference for current or future release.

3. Overview of Opencart Application

Opencart is a free, open-source e-commerce platform for a diverse user base, from web developers to shop owners offering foundational support for building online stores. The e-commerce application consists of Opencart store front and admin section. As the project is based on Opencart store front, the test plan specifically addresses Opencart Store front section, highlighting its core features which are given below:

- Allows free user registration and user login.
- Features a homepage with a header, footer, and menu bar, product search option.
- Includes a product display page.
- Enables users to change and manage their information.
- Incorporates a shopping cart for adding and managing products.
- Offers a checkout page with international payment options for purchasing.

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Allows users to submit product reviews.
- Provides the option to purchase gift vouchers.

4. Testing Scope

In the test summary report document, testing scope specifies which features of the Opencart application were included in testing and which features were not included in the testing process. It consists of "in scope" which have the features that were included in the testing, and the "out of scope" which have features that were excluded from the testing efforts.

4.1 In Scope

Here in scope outlines the features or functionalities in the Opencart application that were tested during the testing cycle. The features are given below:

- Home
- Account
- Register
- Login
- Forgot Password
- Logout
- Edit Account
- Change Password
- Address Book
- Wishlist
- Payment
- Order History
- Downloads
- Reward Points
- Product Returns
- Transactions
- Affiliate Account
- Newsletter
- Gift Certificate
- Shopping Cart
- Checkout
- Contact Us
- Specials
- Site Map

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- Brands
- Product Compare
  Product Display

4.2 Out of Scope

The components of the Opencart application that were not included in the testing procedure are discussion in the out of scope section. Feature that were not included in the application are listed below:

- Test automation.
- Website Security and performance.
- Website Database/Server side. ⬜ Any third-party features.
- All the features that doesn't mentioned in features to be tested section.

5. Test Approach

Test approach outlines the testing process, various types of testing, and specifies the methods for testing conducted in the Opencart application. Here process of testing and testing types are part of this application's test approach.

5.1 Process of Testing

The testing process defines all the testing activities carried out for Opencart web application in the overall test cycle. A step-by-step testing process outlined for the Opencart web application is given below:

Step-1: Understanding the Requirements

- The client provided requirement specifications.
- The manager, lead and developer raised queries regarding the requirements.
- The queries raised was forwarded to the client.
- The client responded to the queries and changes were made to the requirements.

Step-2: Developing Testing Artifacts

Test Plan: A detailed test plan was generated by the testing team for the Opencart application.
Test Scenarios and Test Cases: Testing team developed test scenarios for all the modules of the Opencart application. Test cases were generated based on these scenarios, employing various test design techniques which are given below:

- Equivalence Class Partition
- Boundary Value Analysis
- State Transition Testing

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- Decision Table Testing
  Error Guessing (Using the testing team expertise)

Test scenarios and test cases was documented in Microsoft excel and later it was uploaded into TestRail test management tool.

Requirement Traceability Matrix (RTM): Testing team created a Requirement Traceability Matrix (RTM) based on test cases and the requirement specifications to ensure all the requirements had covered in the test cases and test scenarios. Microsoft Excel was be used to generate the RTM.

Test Data: The respective test engineer developed the test data required for executing tests on the application. Appropriate test data including test data for positive and negative testing according to the test cases was included in the test data document. Test data was developed in Microsoft Excel.

Step-3: Executing Test Cases

- After creating the necessary testing artifacts testing team executed the developed test cases and thoroughly test all the modules of Opencart application.

- Execution result of all the test cases were logged in test execution result document. Microsoft Excel was used to build the document.

Step-4: Defect Reporting

- During testing if any bugs were identified, testing team logged and reported the bugs using both Microsoft Excel and Jira. To keep a proof of the newly found bug, test engineer can take a screenshot using Lightshot or record a video using Microsoft Xbox Game Bar. The bugs were categorized based on the priorities as follows:

  1) **High:** Serious errors preventing system crash or serious data type issues.
  2) **Medium:** Serious or missing data errors without preventing implementation.
  3) **Low:** Minor errors with no impact on functionality.

- Any identified bugs was assigned to the developer and tracked by the test engineer until it's resolution according to the project's bug life cycle.

Bug Life Cycle: Bug life cycle provided a detail overview of the various stages of a bug from it's discovery to it's resolution. Bug life cycle that has been followed in the Opencart project is given below:

Step-1: Assigned

- From the defect report, test engineer reported the newly identified defects to the developer.
- If the bug was a blocker tester should mentioned that in defect report. **Step-2: Resolving**
- The developer opened the defect and when the developer did not accept the defect the defects were addressed according to the followings by the developer:

  1. **Duplicate:** The identified bug was a duplicate bug.
  2. **Not an issue:** The developer marked the defect as "Not an issue" when the defect was not an issue.

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3. **Won't fix:** The developer labeled the defect as "Won't fix" because here the defect was a feature.

4. **Future releases:** Low priority bug was addressed for "Future releases" according to the client preference.

- But when the defects were appropriate the developer accepted it and resolved it.
- After resolving the assigned bug, the developer marked it as 'Dev done' and assigned it to the testing team for verification.

Step-3: Verification

- The testing team conducted a thorough testing of the fixes on the assigned bugs.
- Testing team also verified the "duplicate", "Not an issue", "Future releases" and "Won't fix" defects.

Step-4: Closure

- Upon successful verification of the bug fix, testing team closed the bug.
- The testing team labeled the closed bug as "Test done".

Step-5: Unresolved

- If the bug was not successfully fixed, tester re-assigned it to the developer for further resolution.

This cycle continued to track the progress of bug resolution and ensured that issues were addressed effectively before Opencart is released. **Step-5: Deployment**

- After all the bug had resolved, the application is ready to deploy in the production environment.
- After the overall test completion, test summary report will be send to client.
- Test engineer can do one round of testing in the client site according to the client preference.

5.2 Testing Types

Testing types are standardized procedures designed for specific bug identification and ensuring early bug detection before product release. In this project two types of testing were performed which are given below:

1. **Functional Testing:** To ensure the fulfillment of client-provided functional requirements, functional testing was conducted to verify that the functions within Opencart are operating correctly and meeting the requirement specifications. Functional testing was conducted in all the features of Opencart mentioned in "In scope".

2. **Exploratory Testing:** Exploratory Testing in software testing involves testers checking the system on the fly without pre-defined test cases. To build a better application using the testers expertise exploratory testing were conducted in the Opencart application.

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6. Test Environment

A testing environment is a configured setup of software and hardware where the testing team executes test cases. The components that needed to build the test environment are listed below:

S. I	Name	Description
1.	Application URL	demo.opencart.com
2.	Web Browser	Google Chrome Browser (Version-120.0.6099.201) for the Opencart web application to run and execute the test cases
3.	Network	A LAN Gigabit network and install one internet line with a minimum speed of 5 Mb/s.
4.	Computer	A computer which has windows 10, RAM 8 GB, CPU 2.10 GHz.

Here in the test environment, testing was performed on a computer running the Windows 10 operating system, utilizing the Google Chrome browser. Test cases for the Opencart web application were executed on the Opencart demo website given in the application URL. Testers accessed the website through web browsing to conduct the testing.

7. Test Metrics

Test metrics are introduced to quantify the software progress, performance and overall health. In this project some process metrics such as test planned vs executed, test pass/fail/blocked and product metrics such as defect distribution by status all are created as test metrics for the Opencart application.

7.1 Test Planned Vs Test Executed

All the planned test cases from the requirement specifications and the numbers of testcases executed are given below in the table:

Test Planned Vs Test Executed		
Description	Numbers	Percentage (%)
Planned Test cases	413	100%
Executed Test cases	413	100%

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7.2 Test Pass/Fail/Blocked

Among all the executed test cases from Opencart application, there are some passed test cases, failed test cases and blocked test cases which are given below in the table and figure.

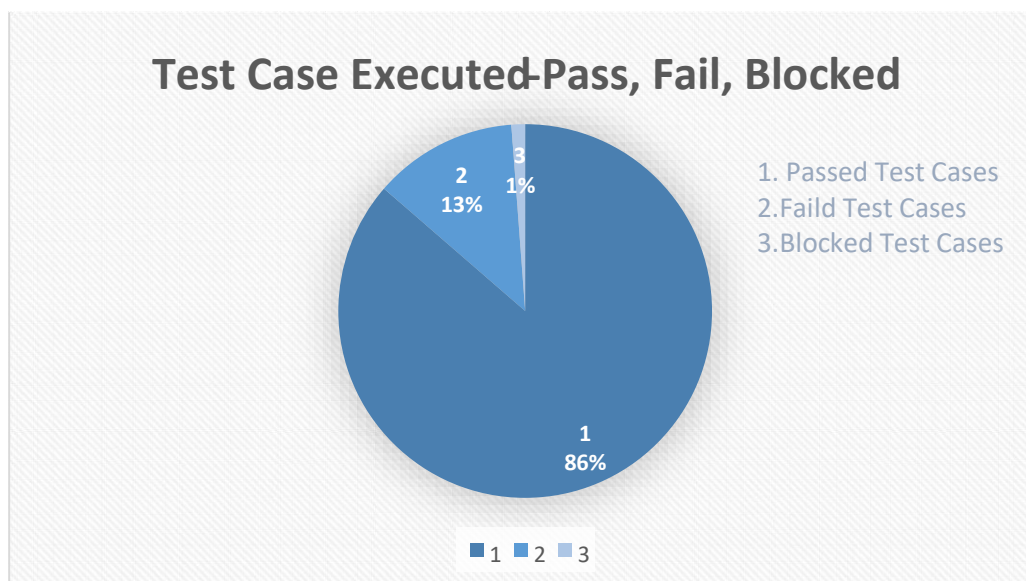| Test Case Executed-Pass, Fail, Blocked		
Description	Numbers	Percentage (%)
Test cases Passed	361	87.4%
Test cases Failed	52	12.6%
Test cases Blocked	05	1.2%

Fig 1: Test Case Executed-Pass Fail, Blocked

7.3 Defect Distribution by Status

All the status of the defects according to the defect report are discussed in this section. It includes status such as:

Valid: All the "Will do" defects in the defect report are accepted by the developer so here it is valid defect.

Future Releases: All the" Future releases" defects are kept for the future version of Opencart.

Rejected Defects: All the **"**Duplicate", "Not an issue" and "Won't fix" defects are rejected defects.

Defects-Identified, Valid, Future Releases

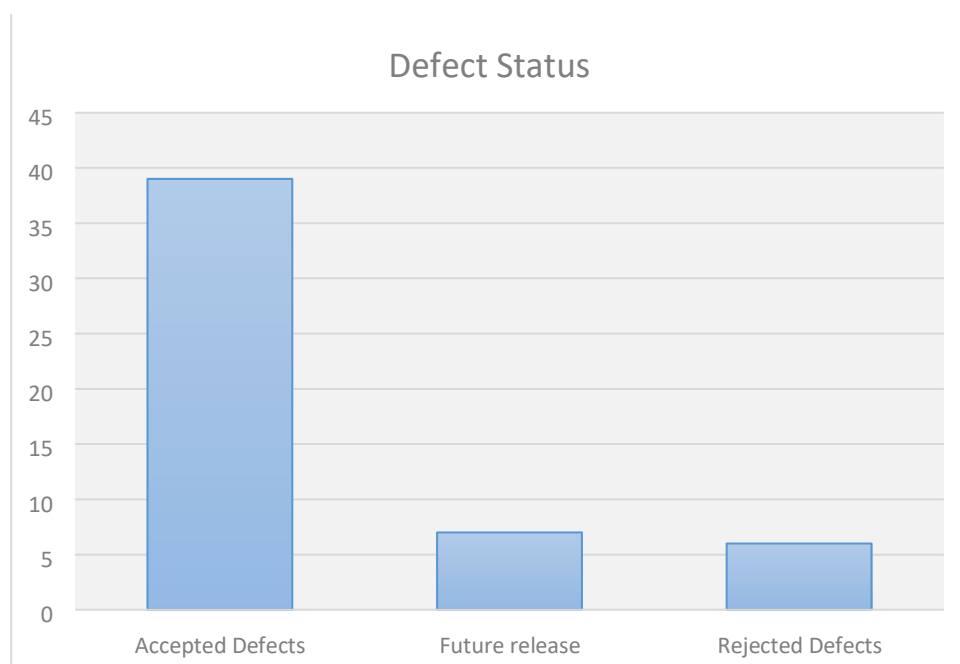| Description	Numbers	Percentage (%)
Defects Identified	52	--
Defects Accepted as Valid	39	75%
Defects Deferred for Future Releases	07	13.5%
Rejected Defects	06	11.5%

Fig 2: Defect Distribution by Status

8. Defect Summary

Defect summary discusses about all the defects found during the functional testing procedure. It discusses about the defects found in the modules of Opencart web application. Defect summary consists of total defects and outstanding defects.

8.1 Total Defects

Total defects consists of the defects found during the functional testing of Opencart application. Defects including the status of the defects with modules are mentioned in the below table. Here "Duplicate", "Not an issue", "Won't fix" status defects are rejected as defects and "Will do" and "Blocker" status are accepted as defects by the developer and will be resolved. Low priority bug was addressed for "Future releases" are remain unresolved.

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Module	Defect Description	Status
Home>Featured	Featured section third product box does not have similar size than the rest of the product box.	Will do
Home	In top slider first iPhone image doesn't load iPhone display page when the image is clicked and second laptop image does not load anything when the image is clicked.	Will do

Home>Featured	Featured section last two products add to cart option loads product display page.	Will do
Header and Footer	Phone number given in the header is not valid.	Will do
Search	In logged in state, when valid product name was given in search box and search result shows 500-Internal Server Error.	Blocker
Search	In logged in state, when invalid product name was given in search box and search result shows 500-Internal Server Error.	Blocker
Search	Without logging in when product name was given in search box it shows 500-Internal Server Error.	Blocker
Register	After registration confirmation mail is not sent to the registered email.	Will do
Forgot Password	No reset password email has sent to the user for password reset.	Will do
Forgot Password	Password cannot be reset as no confirmation email with a new password link is sent.	Blocker
Forgot Password	User cannot login after resetting password as no confirmation email with the reset password link has sent to the user for password reset.	Blocker
Edit Account	First Name and Last name field accepts small letters.	Future release
Edit Account	First Name and Last name field accepts integers and special characters.	Will do

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Edit Account	First Name and Last name field accept letters where every letter has space in between them.	Future release
Edit Account	Error message does not show when Continue button is clicked after accepting invalid email in email address field.	Future release
Change Password	Password field accepts 21 characters.	Will do
Address Book	Address Book page loads My Account page under Address Book entries after deleting an address.	Will do
Address Book	First Name and Last name field accepts integers.	Will do

Wishlist	In Wishlist, Canon EOS 5D and Apple Cinema 30" show their product display page when their Add to Cart logo is clicked.	Will do
Payment	Payment page favicon does not shows.	Will do
Product Returns	Account page is viewed when Product Return's all the products View buttons are clicked.	Will do
Affiliate Account>My Affiliate Account	"Web site" field name must not have space in between web and site.	Not an issue
Affiliate Account>My Affiliate Account	Company name field accepts spaces between company name characters.	Not an issue
Affiliate Account>My Affiliate Account	Website field accept domain address with hyphen.	Will do
Affiliate Account>My Affiliate Account	Website field accept domain address that has spaces between words or characters. .	Will do
Affiliate Account>My Affiliate Account	Website field accept invalid format domain address.	Will do
Affiliate Account>Payment Information	Tax ID field accepts letters and special characters.	Won't fix

Affiliate Account>Payment Information>Payment Method>Cheque	Cheque Payee Name field accepts integers and special character.	Future release
Affiliate Account>Payment Information>Payment Method>Bank Transfer	ABA/BSB number (Branch Number) field accepts letter and special characters.	Will do
Affiliate Account>Payment Information>Payment Method>Bank Transfer	Bank Name field accepts integers and special characters.	Will do
Affiliate Account>Payment Information>Payment Method>Bank Transfer	SWIFT Code field accepts less than 8 digit number.	Will do

Affiliate Account>Payment Information>Payment Method>Bank Transfer	SWIFT Code field accepts more than 11 digit number.	Will do
Affiliate Account>Payment Information>Payment Method>Bank Transfer	SWIFT Code field accepts letters and special characters.	Will do
Affiliate Account>Payment Information>Payment Method>Bank Transfer	Account name field accepts integers and special characters.	Future release
Gift Certificate>Purchase a Gift Certificate	Recipient's Name field accepts digits and special characters and form is submitted and Purchase a Gift Certificate page is shown.	Will do
Gift Certificate>Purchase a Gift Certificate	Your Name field accepts digits and special characters and form is submitted and Purchase a Gift Certificate page is shown.	Will do
Gift Certificate>Purchase a Gift Certificate	Message field accepts letters with spaces between each characters and form is submitted and Purchase a Gift Certificate page is shown. .	Will do

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Gift Certificate>Purchase a Gift Certificate	Message field accepts small letters after full stop in a sentence and form is submitted and Purchase a Gift Certificate page is shown. .	Will do
Gift Certificate>Purchase a Gift Certificate	Purchase a Gift Certificate form is submitted without checking the "I understand that gift certificates are nonrefundable" checkbox.	Will do
Shopping Cart>Quantity	Clicking cross sign of all the gift vouchers quantity box from Quantity column does not remove the gift voucher from Shopping Cart.	Will do
Shopping Cart>What would you like to do next?> Estimate Shipping and Taxes	Post code accepts special characters and letters and able to submit form.	Will do
Contact Us>Contact Form	Your Name field accepts integers and special characters and contact form is submitted and Home page is viewed.	Will do
Contact Us>Contact Form	Enquiry field accepts values that has spaces after each characters and contact form is submitted and Home page is viewed.	Will do
Specials	Canon EOS 5D and Apple Cinema 30" show their product display page when their Add to Cart logo is clicked.	Duplicate
Product Compare	HP LP3065, Apple Cinema 30" and Canon EOS 5D product Add to Cart button takes to the product display page in product Compare page.	Will do
Product Compare	To visit Product Compare page by searching the product through search box user search the product and search result shows internal error-500.	Will do
Product Display	Canon EOS 5D Tab name is 'sdf' and it's 'Please Select' button does not show any selectable options.	Duplicate

Product Display	When all the products Qty field remains empty and 'Add to Cart' button is clicked success message is shown without adding the product to Shopping Cart and 'Please Select' button does not show any selectable options.	Will do
Product Display>Reviews(0)>Write a review	Your Review field accepts spaces between each character in a sentence.	Future release
Product Display>Reviews(0)>Write a review	Your Review field accepts small letters to start a sentence.	Won't fix
Product Display>Reviews(0)>Write a review	Your Name field accepts integers and special characters.	Future release
Product Display>Reviews(0)>Write a review	Your name field accepts any random names.	Will do

8.2 Outstanding Defects

Outstanding defects refers the unresolved bugs remain in the Opencart application. The unresolved defects are low priority defects found in the Opencart application are kept for the future release version of Opencart.

Module	Defect Description	Priority
Edit Account	First Name and Last name field accepts small letters.	Low
Edit Account	First Name and Last name field accept letters where every letter has space in between them.	Low
Edit Account	Error message does not show when Continue button is clicked after accepting invalid email in email address field.	Low
Affiliate Account>Payment Information>Payment Method>Cheque	Cheque Payee Name field accepts integers and special character.	Low

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Affiliate Account>Payment Information>Payment Method>Bank Transfer	Account name field accepts integers and special characters.	Low
Product Display>Reviews(0)>Write a review	Your Review field accepts spaces between each character in a sentence.	Low
Product Display>Reviews(0)>Write a review	Your Name field accepts integers and special characters.	Low

9. Overall Summary

Overall summary discusses the overall testing procedure of Opencart application but in a summarized form. This section discussed the recommendation and learning of the testing team provided from this Opencart project. In this application manual testing was done but it would have been better if automation testing was introduced so less time would be needed during the test execution. For recommendation, before conducting testing for any new features, testing team should conduct a demo. Above all, the overall summary is Opencart application is stable and performed well.

10. Approvals

Approvals			
Version	Approver Name/Designation	Signature	Approval Date
1.0	XYZ, Test Manager	XYZ	28-05-2024
	MNO, Project Manager	MNO	28-05-2024
	Opencart, Opencart Client	Opencart	28-05-2024

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