



Project Name: OpenCart (Frontend)

Test Plan

| Document Author | Document Version | Revised Date | Approved By |
|--------------------|------------------|--------------------------------|-------------|
| Sadia Subrun Proma | 1.0 | August 01 th , 2021 | TBA |

Contents

| | |
|---|----|
| 1. Introduction ----- | 2 |
| 2. Test Item----- | 2 |
| 2.1. Feature to be tested----- | 2 |
| 2.2. Feature not to be tested ----- | 3 |
| 3. Quality Objectives ----- | 4 |
| 4. Test Methodologies ----- | 4 |
| 4.1 Testing level----- | 5 |
| 4.2 Test Strategy----- | 6 |
| 5. Roles and Responsibilities ----- | 6 |
| 6. Entry and Exit Criteria ----- | 7 |
| 6.1. Entry Criteria ----- | 7 |
| 6.2. Exit Criteria ----- | 8 |
| 7. Suspension Criteria and Resumption Requirement ----- | 8 |
| 8. Resource and Environment Needs----- | 8 |
| 8.1. Resources----- | 8 |
| 8.2. Testing Tools----- | 9 |
| 8.3. Configuration Management ----- | 9 |
| 8.4. Test Environment ----- | 9 |
| 9. Test schedule ----- | 9 |
| 10. Deliveries ----- | 10 |
| 11. Risk & Assumptions----- | 11 |
| 12. Terms/Acronyms ----- | 12 |
| 13. Approvals ----- | 12 |

1.Introduction

This document describe some test functionality of <https://demo.opencart.com/> (OpenCart) website which is PHP-based, using a MySQL database and HTML components. It includes the objectives, scope, test responsibilities, entry and exit criteria, schedule major milestones, approaches, risk, and acronyms.

2.Test Items

2.1 Feature to be tested

-Register

- Well organized Menu
- Ability of "First Name"; "Last Name" ; "E-Mail"; "Telephone" , "Password" etc. option to create a new account.
- Should have back option

-Log In and Log Out

- Well organized Menu
- Ability of currency choice option
- Ability of "Contact", "My Account"," Wish List", "Shopping Cart", "Checkout", "Item" options
- Forgot password link
- Should have page back option

-Forgot Password

- Well organized Menu
- Ability of E-Mail address option
- Ability of instruction text on top
- Ability of back and continue bar

-Search

- Ability of organized search bar option

-Product compare

- Allows the customer to compare the different specifications, features, and price of a number of products s/he might be interested in.
- Should have back option
- Should have Show more/Show less option
- Ability of Add Card and remove option

-Your Store Page

- Ability of currency choice option
- Ability of "Contact", "My Account", "Wish List", "Shopping Cart", "Checkout", "Item" options
- Ability of company logo on top left with clickable link
- Ability to search product
- Ability of category wise organized of every product
- Ability of show all feature
- Should have "Show more/ Show less" features after product description.
- Should have more options for the products.
- Able to click on products.
- Ability of clickable cart sign on the product view.
- Ability of "wish list" and "compare" options with products.
- Able to navigate to OpenCart Homepage.
- Should have next/previous page (page number and next/previous button should be functional).
- Should have slide page number.
- Should show price on each and every products
- Should have scrollbar on product

-Product Details Page

- Product image: The product image can be displayed under the title on the left-side, along with alternate views of the product underneath it in smaller box. Clicking on the main image will expand the image within the window for the customer to see it in greater detail.
- Product details: The product code, availability, and price are displayed just right to the product image.
- Cart: The customer can select a quantity and add the product to their cart, wish list, or compare.
- Rating/Sharing: Underneath the cart can rate the product and/or share the product on different social media websites.

- Description tab: An area underneath the main product information to provide a detailed description of the product.
- Review tab: An area for the customer to write a review on the product.

-Add To Cart

-Wish List

-Shopping Cart

-Currencies

-Check Out page

-My Account Page

-Order History

-Download Page

-Contact Us Page

-Menu Option

-Footer Option

-Category option

2.2 Feature not to be tested

- Any feature that will add later
- Automation

3. Quality Objective:

The objective of this Test Plan is to ensure reliability, system assurance and optimum performance and capacity utilization. This test plan focuses on comparing the performance of application with respective to end user expectations with the current and new production environment. Basically, testing enhancement and update to the existing system.

4. Test Methodologies :

This project will be following agile methodology and work will be updated based on weekly iteration. The work is distributed on and will be followed according to requirement-based strategy specified in detail in this test plan. Each feature will be tested separately and along with each other after each phase and reports should be delivered according to the schedule. Test Cases should be created during exploratory testing. Testing methodologies (In scope/Out Scope) are given below:

4.1 Test Levels :

In Scope:

- Functional Testing (a Black-box type testing geared to the functional requirements of this application)
- Integration Testing (to verify the combined functionality after integration)
- Performance Testing (check whether the system meets the performance requirements)
- Cross-browser Testing (check whether the system is supported in every browser)
- Security Testing (Payment) (to check how the software or application or website is secure from internal and external threats)
- UAT (For a tester's perspective)
- Regression Testing (Existing functionalities will be validated as part of regression tests) (Cart, Checkout Flow) (Repeated testing of same module)
- Progression testing (New functionalities will be validated as part of progression tests)
- Fixed defects will be validated.

Out of Scope:

- Database Testing.
- API Testing
- Automation Testing

4.2 Test Strategy :

Test Cases Preparation & Execution:

- QA will be preparing test cases. This will cover all scenarios for requirements.
- Peer review will be conducted from time to time for test cases and test matrix by QA Lead.
- Respective Author of Test Case and Test Matrix will provide comment or suggestions on test cases and test coverage if needed.
- Author will re-work on the suggestions/improvements that has been given on Test Cases/Matrix and will send for approval. Re-worked improvements will be reviewed and approved by reviewer.
- Respective QA will execute Test Cases on test site based on designed scenarios, test cases and Test data.
- (Actual Result with Expected Result-> Pass/Fail) Test result will be updated in test case document.

Defect Logging and Reporting:

- QA will log the defect/bugs in prospective management tool. After this, QA will inform the respective developer about the defect/bugs that has been logged.

Retesting:

- Respective QA will re-testing for fixed bugs after it is resolved by respective developer. Bug/defect status will be updated accordingly. In certain cases, if it's required then regression testing will be done.

Deployment/Delivery:

- Once all bugs/ defect that has been reported after complete testing are fixed, afterwards if no other bugs are found, report will be deployed to test site by PM.
- Once QA are done with the round of testing on test site and if it is required Report will be delivered along with sample output by email to the respective team member.
- QA will hand over the hard copy of delivery documents to the respective developer.

5.Roles & Responsibilities:

| Role: | Contact Name & Information: | Responsibilities |
|-----------------|--|--|
| Project Manager | X PM@opencart.com | <ol style="list-style-type: none"> 1. The primary contact for the development and QA team. 2. Participate in Test Scenarios. 3. Participate in Test Cases review. 4. Responsible for Project schedule and the overall success of the project 5. Verify sign Off on Requirements, Test |

| | | Scenarios, Test Cases. |
|---------|--|---|
| QA Lead | Y QAL@opencart.com | <ol style="list-style-type: none"> 1. Participation in the project plan creation/update process. 2. Planning and organization of test process for the release. 3. Coordinate with QA analysts/engineers on any issues/problems encountered during testing. 4. Report progress on work assignments to the Project manager. 5. Monitor quality metrics and performance throughout each testing phase. 6. Monitor QA burn down rate and status. |
| QA | Z QA@opencart.com | <ol style="list-style-type: none"> 1. Understand the features requirements. 2. Writing and executing Test cases. 3. Preparing RTM(Requirement traceability matrix) . 4. Reviewing Test cases, RTM with PM, QA Lead. 5. Preparation of Test Data 6. Log in Defects and keep tracking. 7. Retesting and regression testing . 8. Bug Review meeting . 9. Provide and monitor Testing Schedule to team members. 10. Coordinate with QA Lead for any issues or problems encountered during test preparation/execution/defect handling. |

6.Entry & Exit Criteria

6.1 Entry Criteria

- QA resources have completely understood the requirements and complete FRS Document.
- QA resources have sound knowledge of functionality.
- Test Scenarios & Test Cases Approved.
- Test Plan
- All the necessary documentation, design, and requirements information should be available that will allow testers to operate the system and judge the correct behavior.
- Unit Test cases should pass

- Application Smoke Test Completed (If Applicable).

6.2 Exit Criteria

- Test Cases Execution Completed.
- A certain level of requirements coverage has been achieved.
- Outstanding Severity 1 & 2 Defects Completed
- No high priority is left outstanding.
- Completion of planed test cases execution
- UAT Test Evidence Collected
- Test Closure Memo completed and signed off.

7.Suspension Criteria & Resumption Requirement

Based on the client decision we will suspend and resume the project.

8.Resources & Environment Needs

8.1 Resources

| Description | Tool |
|---|----------|
| Need a Database server which install MySQL server Web server which install Apache Server | Server |
| Setup a LAN Gigabit and 1 internet line with the speed at least 5 Mb/s | Network |
| Windows 10, Ram 4GB, CPU 3.4GHZ | Computer |

8.2 Testing Tools

| Process | Tool |
|----------------------|------------------------|
| Test Case creation | Microsoft Excel |
| Test Case Tracking | Microsoft Excel |
| Test Case Execution | Manual |
| Test Case Management | Microsoft Excel |
| Defect Management | Jira |
| Test Reporting | Microsoft Excel & Jira |

8.3 Configuration Management:

- GitHub

8.4 Test Environment:

Support level (browsers):

- Windows 10: Edge,
- Chrome (latest),
- Firefox (latest),
- Safari (latest)

9.Test Schedule

| Task Name | Start | Finish | Done BY | Estimated Time |
|-------------------------------|-------|--------|--------------------|----------------|
| FRS | 02/08 | 02/08 | Sadia subrun proma | 1day |
| Test Planning | 03/08 | 03/08 | Sadia subrun proma | 1day |
| Review Requirements documents | 04/08 | 06/08 | Sadia subrun proma | 2day |

| | | | | |
|---|-------|-------|--------------------|--|
| Create test basis | 03/04 | 03/15 | Sadia subrun proma | |
| Staff and train new test resources | — | — | | |
| First deploy to QA test environment | | | | |
| Functional testing: Iteration 1 | | | | |
| Iteration 2 deploy to QA test environment | | | | |
| Functional testing – Iteration 2 | | | | |
| System testing | | | | |
| Regression testing | | | | |
| UAT | | | | |
| Resolution of final defects and final build testing | | | | |
| Deploy to Staging environment | | | | |
| Performance testing | | | | |
| Release to Production | | | | |

10. Deliveries

Before testing phase:

- FRS document.
- Test plans document.
- Test scenario.
- Test cases documents
- Test Design specifications.

During the testing:

- Test Tool Simulators.
- Test Data
- Test Trace-ability Matrix - Error logs and execution logs.

After the testing cycles is over:

- Test Results/reports
- Defect Report
- Installation/ Test procedures guidelines
- Release notes

11. Risk & Assumptions

Risk :

- Payment method may fail when internet fluctuates
- In old / no-updated browser , system may fail to load when javascript if disabled

Assumptions :

- For some optimization of resource, test plan may be fail
- Maintain backup resource
- Availability of test tools
- Skill level of resource

12. Terms/Acronyms

| Term/Acronyms | Definition |
|---------------|-----------------------------------|
| API | Application Programming Interface |
| PM | Product Manager |
| QA | Quality Assurance |
| RTM | Requirements Traceability Matrix |
| UAT | User Acceptance Testing |

13. Approvals

| Approved By | Approval Title | Date | Attachment |
|-------------|-----------------|--------------------|------------|
| 1. X | Project Manager | 30 - August - 2021 | None |
| 2. Y | QA Lead | 30 - August - 2021 | None |