TEST PLAN

Product Name: OpenCart (Frontend)

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Overview

Aspart of the project, 'OpenCart' asked Komal to test few functionalities of '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

Inclusions

- Register
- Login &Logout
- Forgot Password
- Product Compare
- Product Display Page
- Add to Cart
- Wishlist
- 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

- Windows 10 – Chrome, Firefox and edge
- Android Mobile OS –Chrome

Exclusions

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

Test Strategy

"Komal" has communicated with "OpenCart" and has understood that we need to perform Functional Testing of all the functionalities mentioned in the above Scope section.

As part of Function Testing, we will follow the below approach for testing:

Step#1 – Creation of Test Scenarios and Test Cases for the different features in scope.

- We will apply several Test Designing technologies while creating Test Cases
    - Equivalence Class Part
    - Boundary Valu 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 priorities 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 for the stable build before performing in depth testing of the application are working.
- Once we receive the stable build, which passes Smoke testing, we perform in-depth testing of the application functionalities.
- Multiple Test 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 Cycle 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 Testing** - we will test the end-to-end scenario which involves multiple functionalities to simulate the end user flows.

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'd be reported as an observation/issue or posed as a question.
- Any usability issues will also be reported.
- After discovering a defect, it will be retested to verify the 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 an 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 meetings with clients.
Person C	Senior Test Engineer	✓ Interact with the application ✓ Created and Executed the Test cases. ✓ Report defects
Person D	Test Engineer	✓ Interact with the application ✓ Execute the Test cases. ✓ Report Defect

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

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 – NA

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 of 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:

Risks: Non-Availability of a Resources

Mitigation: Backup Resources Planning

Risks: 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