TEST PLAN
Product Name: OpenCart (Frontend)

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Test Plan

1. Introduction

The purpose of this Test Plan is to outline the testing strategy, objectives, resources, schedule, and deliverables for testing the Homepage of the web application. The Homepage serves as the main entry point for users and includes various functional components that need to be tested to ensure a smooth and seamless user experience.

2. Objectives

- Verify that the Homepage meets all functional requirements specified in the Functional Requirement Specification (FRS).
- Ensure that the Homepage is free of defects and works as expected across different browsers and devices.
- Validate the performance, security, usability, and accessibility of the Homepage.

3. Scope

The scope of this test plan includes testing the following components of the Homepage:

- Header Section
- Banner Section
- Featured Products
- Categories Section
- Promotional Sections
- Footer Section

4. Test Items

The items to be tested include:

Header Section:

- o Logo and Branding
- o Navigation Menu
- o Search Bar
- o User Account Links (Login/Register, My Account)
- o Shopping Cart

Banner Section:

- o Image Slider
- o Navigation Arrows

Featured Products:

- o Product Listings (Images, Names, Descriptions, Prices)
- o "Add to Cart" Buttons

Categories Section:

- o Category Thumbnails
- o Category Links

Promotional Sections:

- o Special Offers
- o New Arrivals
- o Best Sellers

Footer Section:

- o Information Links (About Us, Privacy Policy, Terms & Conditions)
- o Customer Service Links (Contact Us, Returns, Site Map)
- o Social Media Links
- o Newsletter Signup

5. Test Types

Functional Testing

Header Section:

- o Verify that all links in the navigation menu work correctly.
- o Test the search functionality to ensure it returns relevant results.
- o Validate that the shopping cart updates correctly when items are added or removed.
- o Check that user account links navigate to the appropriate pages.

Banner Section:

- o Ensure that the image slider displays images correctly.
- o Verify that navigation arrows work as expected.

Featured Products:

- o Confirm that product listings display the correct information.
- o Test that the "Add to Cart" buttons function properly.

Categories Section:

- o Verify that category thumbnails and links navigate to the correct category pages.

Promotional Sections:

- o Ensure that special offers, new arrivals, and best sellers are displayed accurately.

Footer Section:

- Check that all informational and customer service links navigate to the correct pages.
- Verify that social media links open the correct profiles.
- Test the newsletter signup functionality.

Performance Testing

- Measure the loading time of the Homepage.
- Ensure that the image slider and featured products load efficiently.

Security Testing

- Verify that the Homepage is protected against common vulnerabilities (e.g., XSS).
- Ensure that sensitive data, such as user information, is not exposed.

Usability Testing

- Ensure that the Homepage is intuitive and easy to navigate.
- Verify that the design is responsive and works well on various devices (desktop, tablet, mobile).

Accessibility Testing

- Ensure that the Homepage meets WCAG guidelines for accessibility, including keyboard navigation and screen reader compatibility.

6. Test Environment

The testing environment will include:

- **Web Browsers:** Chrome, Firefox, Safari, Edge
- **Devices:** Desktop, Tablet, Mobile
- **Operating Systems:** Windows, macOS, iOS, Android
- **Environments:** Development and Staging

7. Test Schedule

Activity	Start Date	End Date
Test Planning	05-July-2024	05-July-2024
Test Case Development	06-July-2024	10-July-2024
Test Environment Setup	11-July-2024	12-July-2024
Test Execution	13-July-2024	20-July-2024
Defect Reporting	14-July-2024	21-July-2024
Test Closure	22-July-2024	23-July-2024

8. Deliverables

- **Test Plan Document:** Outline of the testing strategy and scope.
- **Test Cases:** Detailed test cases for each component of the Homepage.
- **Test Execution Reports:** Documentation of the results of test executions.

- **Defect Reports:** Detailed reports of any defects found during testing.
- **Test Summary Report:** Summary of testing activities, results, and any outstanding issues.

9. Roles and Responsibilities

Test Manager

- Oversee the testing activities.
- Ensure adherence to the test plan.
- Coordinate with stakeholders.

Test Engineers

- Develop and execute test cases.
- Report and track defects.
- Provide feedback on testing progress.

Developers

- Fix reported defects.
- Support the testing team as needed.

10. Entry and Exit Criteria

Entry Criteria

- FRS document is approved.
- Test environment is set up.
- Test cases are developed and reviewed.

Exit Criteria

- All test cases are executed.
- All critical defects are resolved.
- Test summary report is reviewed and approved by stakeholders.

11. Risks and Mitigation

Risks

- **Environment Setup Delays:** Potential delays in setting up the test environment.
- **Incomplete Requirements:** Ambiguities or changes in requirements during the testing phase.

Mitigation

- **Environment Setup Delays:** Plan for additional time in the schedule and ensure proper coordination with the IT team.
- **Incomplete Requirements:** Conduct regular reviews and clarifications with stakeholders to ensure requirements are complete and clear.