Functional Requirement Specification (FRS)

1. Document Information

- **Document Title:** Functional Requirement Specification (FRS)
- **Project Name:** OpenCart (Frontend)
- **Client:** OpenCart
- **Version:** 1.0
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2. Introduction

2.1 Purpose

The purpose of this document is to describe the functional requirements of the OpenCart Frontend application. This document serves as a baseline reference for understanding system functionality and for planning quality assurance activities.

2.2 Scope

This FRS covers the functional behavior of the customer-facing OpenCart web application, including user account management, product browsing, shopping cart operations, checkout, and order management.

2.3 Intended Audience

- Quality Assurance (QA) Team
- Development Team
- Project Stakeholders

3. System Overview

OpenCart is a web-based e-commerce application that allows users to browse products, manage accounts, add products to a cart, and place orders online through a user-friendly interface.

4. Assumptions

- Users have access to a stable internet connection
- The application is accessible through supported web browsers
- Required test data such as user accounts and products are available

5. User Roles

- **Guest User:** Can browse products, search items, place orders, and register an account
- **Registered User:** Can log in, place orders, manage account details, and view order history

6. Functional Requirements

FR-01: User Registration

The system shall allow a guest user to create a new account by providing valid mandatory details.

FR-02: User Login

The system shall allow a registered user to log in using a valid email address and password.

FR-03: User Logout

The system shall allow a logged-in user to log out successfully from the application.

FR-04: Forgot Password

The system shall allow users to reset their password using a registered email address.

FR-05: Product Search

The system shall allow users to search for products using keywords.

FR-06: Product Compare

The system shall allow users to compare multiple products based on their attributes.

FR-07: Product Display Page

The system shall display detailed information for selected products, including price, availability, and images.

FR-08: Add to Cart

The system shall allow users to add available products to the shopping cart.

FR-09: Wish List

The system shall allow registered users to add or remove products from the wish list.

FR-10: Shopping Cart

The system shall display cart details and allow users to update product quantities and view order totals.

FR-11: Home Page

The system shall display homepage components such as banners, featured products, and navigation options.

FR-12: Checkout

The system shall allow registered users to complete checkout by providing required billing and shipping information.

FR-13: My Account

The system shall allow registered users to access account-related options after login.

FR-14: Account Information

The system shall allow users to view and update personal account information.

FR-15: Change Password

The system shall allow registered users to change their account password.

FR-16: Address Book

The system shall allow users to add, edit, and delete addresses in the address book.

FR-17: Order History

The system shall allow users to view a list of previously placed orders.

FR-18: Order Information

The system shall allow users to view detailed information of a selected order.

FR-19: Return Request

The system shall allow users to submit a return request for eligible orders.

FR-20: Return List

The system shall allow users to view submitted return requests.

FR-21: Return Information

The system shall display detailed information for a selected return request.

FR-22: Downloads

The system shall allow users to access downloadable products associated with completed orders.

FR-23: Reward Points

The system shall allow users to view reward points earned on purchases.

FR-24: Transactions

The system shall allow users to view transaction history.

FR-25: Affiliate

The system shall allow users to register and manage affiliate accounts.

FR-26: Newsletter

The system shall allow users to subscribe or unsubscribe from newsletters.

FR-27: Contact Us

The system shall allow users to submit queries through a contact form.

FR-28: Gift Certificate

The system shall allow users to purchase and manage gift certificates.

FR-29: Special Offers

The system shall display products available under special offers.

FR-30: Brands

The system shall allow users to browse products by brand.

FR-31: Header, Menu, and Footer

The system shall display header, menu, and footer options for navigation.

FR-32: Currency Selection

The system shall allow users to switch between supported currencies.

7. Non-Functional Requirements

- The application should be user-friendly and easy to navigate
- Pages should load within acceptable time limits
- The application should function correctly on major web browsers

8. Out of Scope

- Performance testing
- Automation testing
- Security and penetration testing