

OpenCart Functional Requirement Specification (FRS) Document

Product Name: OpenCart (Frontend)

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1. Overview

The Homepage is the main entry point for users visiting the online store. It provides an overview of the store's offerings, highlights featured products, and facilitates easy navigation to other sections of the website.

2. User Roles and Permissions

Visitor

- View featured products.
- Navigate to product categories and other sections of the site.
- Access search functionality.

Customer (Logged In)

- All visitor functionalities.
- View personalized recommendations (if applicable).
- Access account information and order history.

Administrator

- Manage content displayed on the Homepage (banners, featured products, promotional sections).

3. Functional Requirements

Header Section

- **Logo and Branding:** Display the store's logo and branding elements.
- **Navigation Menu:** Provide links to major sections (e.g., Home, Categories, Contact Us, About Us).
- **Search Bar:** Allow users to search for products.
- **User Account:** Links to login/register for new users and account management for logged-in users.
- **Shopping Cart:** Display the shopping cart with the number of items and total price.

Banner Section

- **Image Slider:** Showcase promotional banners or featured products.
- **Navigation Arrows:** Allow users to navigate through multiple banners.

Featured Products

- **Product Listings:** Display a selection of featured products with images, names, short descriptions, prices, and "Add to Cart" buttons.
- **Product Links:** Each product image and name should link to the detailed product page.

Categories Section

- **Category Thumbnails:** Display clickable images or icons representing major product categories.

- **Category Links:** Each thumbnail should link to the respective category page.

Promotional Sections

- **Special Offers:** Highlight any ongoing promotions or discounts.
- **New Arrivals:** Showcase recently added products.
- **Best Sellers:** Display top-selling products.

Footer Section

- **Information Links:** Provide links to informational pages such as About Us, Privacy Policy, and Terms & Conditions.
- **Customer Service Links:** Provide links to Contact Us, Returns, and Site Map.
- **Social Media Links:** Provide links to the store's social media profiles.
- **Newsletter Signup:** Allow users to subscribe to the store's newsletter.

4. Non-Functional Requirements

Performance

- The Homepage should load quickly and efficiently to ensure a good user experience.
- The image slider and featured products should be optimized for fast loading.

Security

- Ensure that any data displayed is secure and does not expose sensitive information.
- Implement measures to protect against common web vulnerabilities (e.g., XSS).

Usability

- The Homepage should be intuitive and easy to navigate.
- The design should be responsive and work well on various devices (desktop, tablet, mobile).

Accessibility

- Ensure that the Homepage is accessible to users with disabilities, following WCAG guidelines.

5. Technical Requirements

Technology Stack

- **Frontend:** HTML, CSS, JavaScript, and a suitable framework (e.g., React, Angular).
- **Backend:** A server-side language (e.g., PHP, Node.js) and a web framework (e.g., Express, Laravel).
- **Database:** Relational database (e.g., MySQL, PostgreSQL) for managing dynamic content.

Hosting

- The Homepage should be hosted on a reliable cloud platform (e.g., AWS, Azure).

6. Testing and Validation

Unit Testing

- Test individual components and functionalities on the Homepage to ensure they work correctly.

Integration Testing

- Ensure that the Homepage integrates seamlessly with other parts of the website.

User Acceptance Testing (UAT)

- Real users test the Homepage to validate its functionality, usability, and performance.