**Online Electronics Store**

**1. General Description**

The project is an online store specializing in the sale of electronic equipment. This store will allow users to browse, search, select, and purchase electronic products such as smartphones, laptops, cameras and accessories. Additionally, it will include functions for inventory management, payment processing, and customer support.

**2. Project Objectives**

* Facilitate the purchase of electronic equipment through an intuitive and secure online platform.
* Offer a personalized user experience through recommendations and promotions.
* Optimize inventory and order management to improve operational efficiency.

**3. Functional Requirements**

1. **User Management**
   * User registration and authentication.
   * User profile management (personal information, purchase history, etc.).
   * Password recovery.
2. **Product Catalog**
   * Product display by categories (smartphones, laptops, etc.).
   * Advanced search filters (by brand, price, features).
   * Detailed product descriptions with images, videos, and technical specifications.
3. **Shopping Cart**
   * Add or remove products from the cart.
   * Update product quantities in the cart.
   * Save carts for future purchases.
4. **Order Processing**
   * Secure checkout with multiple payment options (credit cards, PayPal, etc.).
   * Validation of shipping addresses.
   * Order and shipping confirmations via email.
5. **Inventory Management**
   * Automatic inventory updates with each sale.
   * Notifications of out-of-stock or low-inventory products.
   * Restocking system for popular products.
6. **Customer Support**
   * FAQ and product guides.
7. **Recommendation System**
   * Product recommendations based on browsing and purchase history.
   * Personalized offers and promotions.
8. **Reviews and Ratings**
   * Allow users to leave reviews and rate products.
   * Display average ratings on product pages.
9. **Notifications**
   * Email or SMS notifications about order status.
   * Reminders of abandoned cart items.

**4. Non-Functional Requirements**

1. **Security**
   * Encryption of sensitive data (payment information, passwords).
   * Two-factor authentication for account access.
2. **Scalability**
   * Ability to handle a large number of simultaneous users.
   * Modular architecture to facilitate expansion and addition of new features.
3. **Performance**
   * Fast page loading, with a response time of less than 2 seconds.
   * Optimization of images and multimedia to improve speed.
4. **Availability**
   * High availability (99.9% uptime).
   * Automatic backup system for critical data.
5. **Usability**
   * Intuitive and easy-to-navigate user interface.
   * Compatible with mobile devices and popular browsers.
6. **Maintenance**
   * Clear documentation for system maintenance and updates.
7. **Compatibility**
   * Integration with local and international payment and shipping systems.
   * Support for multiple currencies and languages.

**5. System Modules**

1. **Authentication and User Management Module**
   * Registration, login, profile management, and password recovery.
2. **Product Catalog Module**
   * Management of categories, products, and their descriptions.
3. **Shopping Cart Module**
   * Cart management, total calculation, and update processes.
4. **Order Processing Module**
   * Checkout, payment methods integration, and order confirmation.
5. **Inventory Management Module**
   * Inventory control and updates, notifications, and restocking.
6. **Customer Support Module**
   * FAQ management.
7. **Reviews and Ratings Module**
   * Management of user reviews and display of ratings.
8. **Promotions and Discounts Module**
   * Creation and management of coupons, discounts, and offers.
9. **Notifications Module**
   * Sending notifications via email and SMS.
10. **Reports and Analytics Module**
    * Generation of sales reports, inventory analysis, and customer insights.

This online store project will be designed to provide a seamless and secure shopping experience, ensuring customer satisfaction and facilitating the store's operational management.