**System Requirements**

**Functional requirements for user interface:**

**1. User Registration:**

1.1 system shall collect and store user information (name,mail, password).

1.2 system shall Provide account verification through email.

**2. Product Catalog:**

2.1 System shall display product images, descriptions, and prices.

2.2 System should include product categories for easy navigation.

2.3 System shall implement a quick view option for products.

**3. Offers:**

3.1 System shall allow users to view active offers on the homepage and product pages.

3.2 System should allow users access a dedicated section to explore all available offers.

3.3 System shall apply discount during checkout process.

**4. Shopping Cart:**

4.1 System shall allow users to view and edit (add,change number of pieces,delete) cart contents.

4.2 System should calculate and display the total price.

4.3 System shall provide a "Continue Shopping" option.

**5. Product Search:**

5.1 System should enable a search bar with suggestions after at last two letters entered by the user.

**6. Filter and sort:**

6.1 System should allow users to sort products by price popularity.

6.2 System should provide filters for size,color, category.

**7. Checkout Process:**

7.1 System shall gather shipping information and payment method with availability of multiple options.

7.2 System shall provide order confirmation with unique ID.

**8. Order History:**

8.1 System shall allow users to view his/her orders include order details, status.

**9.User Messages:**

9.1 System should allow users to send messages to administrators.

**Functional requirements for admin interface:**

**1. Product Management:**

1.1 System shall allow admin to add, edit, remove products from the catalog.

1.1 System shall allow admin to set product details such as price,descriptions,and images.

1.3 System should allow admin to assign product to relevant categories.

**2. Order Management:**

2.1 System shall allow admin to view and confirm orders.

2.2 Update order status (processing, shipped, delivered).

**3. Inventory Management:**

3.1 System shall allow admin to track and manage inventory levels.

3.2 Receive alerts for low stock or out-of-stock products.

**4. Products Sales:**

4.1 System should display top-selling products.

**5. Discount and promotions:**

5.1 System shall allow admin to Create and manage discounts or promotional offers.

5.2 Set conditions for discounts.

**6. Report generation:**

6.1 Generate reports on sales, inventory, and customer behavior.

6.1 Export reports in common formats (e.g., CSV, PDF).

**7. User messages:**

7.1 Send user messages to admin and allow admin to response to them.

**Non-functional requirements for user and admin interface:**

**1. Performance:** Ensure fast page loading and response times.

**2. Security:**

2.1 Implement role-based access control for admin users.

2.2 Implement secure payment transactions and protect user data.

**3. Scalability:** Accommodate growth in users and products.

**4. Reliability:** Ensure the website is available and functional at all times.

**5. Usability:**

5.1 Design an intuitive and user-friendly interface.

5.2 Provide tooltips and help sections for complex features.

**6. Compatibility:**

6.1 Test the website on major browsers (Chrome, Firefox, Safari, Edge).

6.2 Ensure responsiveness on devices of various screen sizes.

**7. Data Backup:** Regularly backup and secure user and transaction data.

**8. Compliance:** Adhere to legal and regulatory requirements, like data protection laws.