

Functional Requirements:

1. **User Registration and Login:** Users must be able to create accounts, log in securely, and manage their profiles.
 2. **Product Browsing and Search:** Users should be able to browse products by category (e.g., Phones, Laptops) and use a search bar to find products.
 3. **Product Filtering and Sorting:** Users can filter products by brand, price, specifications, and sort by popularity, price, or rating.
 4. **Shopping Cart Functionality:** Users can add items to their shopping cart, update quantities, and remove items before checkout.
 5. **Wishlist Feature:** Users can save products to a Wishlist for future reference without adding them to the cart.
 6. **Product Detail Page:** Each product should have a dedicated page with images, description, specifications, reviews, and price.
 7. **Secure Checkout Process:** The site must support a multi-step checkout process including address input, payment method selection, and order confirmation.
 8. **Payment Gateway Integration:** Users must be able to pay through multiple methods (credit/debit cards, PayPal, etc.) securely.
 9. **Order Tracking and History:** Users can view past orders, their status (shipped, delivered, etc.), and track current orders.
 10. **Customer Service Support:** Users can contact customer service via live chat, email, or phone. An FAQ/help section must also be available.
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Non-Functional Requirements:

1. **Performance:** The website should load within **3 seconds** on standard broadband connections for optimal user experience.
2. **Scalability:** The system should handle a growing number of users, products, and transactions without degradation in performance.
3. **Security:** All user data and transactions must be encrypted (e.g., HTTPS), and sensitive information must be securely stored.
4. **Availability:** The website should have **99.9% uptime** to ensure users can access it at any time.
5. **Usability:** The user interface should be intuitive and easy to navigate for all types of users, with mobile responsiveness.
6. **Compatibility:** The website should work correctly on all modern browsers (Chrome, Firefox, Safari, Edge) and devices (mobile, tablet, desktop).

7. **Maintainability:** The codebase should be modular and documented, enabling easy updates, debugging, and enhancements.
8. **Localization:** The website should support multiple currencies and languages if targeting international customers.
9. **Data Backup and Recovery:** Regular backups must be taken, and a disaster recovery plan must be in place in case of data loss or failure.