

Functional Requirements

ID	Requirement	Category
REQ_001	The system must allow users to register and log in using email, phone number, or social media accounts.	Must Have
REQ_002	The system must allow users to browse clothing items by category (e.g., Men, Women, Kids).	Must Have
REQ_003	The system must allow users to search for products using keywords, filters (e.g., size, color, price), and sorting options.	Must Have
REQ_004	The system must display product details, including images, sizes, colors, materials, price, and reviews.	Must Have
REQ_005	The system must allow users to add products to a shopping cart and review/edit the cart before checkout.	Must Have
REQ_006	The system must support secure payment options, including credit/debit cards, e-wallets, and Cash on Delivery (COD).	Must Have
REQ_007	The system must allow users to create and manage wishlists.	Must Have
REQ_008	The system should allow users to apply discounts, promo codes, and loyalty points at checkout.	Should Have
REQ_009	The system should support real-time inventory updates to prevent overselling.	Should Have
REQ_010	The system must allow users to track the status of their orders (e.g., Processing, Shipped, Delivered).	Must Have
REQ_011	The system must send order confirmation, shipping, and delivery notifications via email and SMS.	Must Have
REQ_012	The system should allow users to review and rate purchased products.	Should Have
REQ_013	The system should provide personalized recommendations based on user preferences and browsing history.	Should Have
REQ_014	The system could support a live chat feature for customer support.	Could Have
REQ_015	The system should allow users to filter products based on location-specific availability.	Should Have
REQ_016	The system must allow admins to add, update, or remove products, prices, and discounts.	Must Have
REQ_017	The system should provide sales analytics and inventory reports for admins.	Should Have
REQ_018	The system won't allow purchases to proceed without user authentication.	Won't Have

Non-Functional Requirements

ID	Requirement	Category
REQ_019	The system must handle at least 50,000 concurrent users during peak traffic.	Performance
REQ_020	The system must secure user data with encryption and follow PCI-DSS standards for payment transactions.	Security
REQ_021	The system must comply with GDPR or relevant local data privacy regulations.	Security
REQ_022	The system must load product pages within 2 seconds under normal conditions.	Performance
REQ_023	The system should have 99.9% uptime annually.	Reliability
REQ_024	The system must support both web and mobile platforms (responsive design and mobile app).	Usability
REQ_025	The system should recover from critical failures within 5 minutes.	Reliability
REQ_026	The system could scale horizontally to handle increased product and user loads.	Scalability
REQ_027	The system must include an intuitive user interface with easy navigation and clear visuals.	Usability
REQ_028	The system should log all key user actions (e.g., login, purchases, reviews) for auditing.	Security

Use Case Scenarios for Functional Requirements

Use Case 1: User Registration and Login

- **Actor:** User
- **Steps:**
 1. User accesses the platform and clicks on "Sign Up" or "Log In."
 2. User inputs email, phone number, or social media credentials.
 3. System validates the inputs and authenticates the user.
 4. User logs in successfully.
- **Related Requirements:** REQ_001

Use Case 2: Browsing and Filtering Products

- **Actor:** User
- **Steps:**
 1. User navigates to the "Clothing" section.
 2. User applies filters like size, color, price range, or sorting preferences.
 3. System displays products matching the search criteria.
 4. User selects a product to view detailed information.
- **Related Requirements:** REQ_002, REQ_003, REQ_004

Use Case 3: Adding Items to Cart and Checkout

- **Actor:** User
- **Steps:**
 1. User selects a product and adds it to the shopping cart.
 2. User reviews the cart and proceeds to checkout.
 3. User applies promo codes or discounts (if available).
 4. System calculates the total cost and prompts for payment details.
 5. System confirms the payment and sends an order confirmation.
- **Related Requirements:** REQ_005, REQ_006, REQ_008, REQ_011

Use Case 4: Order Tracking

- **Actor:** User
- **Steps:**
 1. User logs in and navigates to the "My Orders" section.
 2. User views the status of their orders (Processing, Shipped, Delivered).
 3. System updates the status in real-time.
- **Related Requirements:** REQ_010

Use Case 5: Managing Products (Admin)

- **Actor:** Admin
- **Steps:**
 1. Admin logs into the system.
 2. Admin adds, edits, or removes product listings, prices, and discounts.
 3. System reflects the changes in the product catalog.
- **Related Requirements:** REQ_016

Use Case 6: Leaving Product Reviews

- **Actor:** User
- **Steps:**
 1. User navigates to a completed order in "My Orders."
 2. User writes a review and provides a rating for the product.
 3. System publishes the review on the product page.
- **Related Requirements:** REQ_012