

# FRONTEND MODULE

## 1. User Interface & Authentication Module

**Purpose:** Handles all user-side interactions.

**Includes:**

- Home page, login & signup pages
  - User profile page
  - Product search bar
  - Responsive UI (mobile/desktop)
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## 2. Product Browsing & Cart Module

**Purpose:** Allows users to explore products and manage cart.

**Includes:**

- Product listing & categories
  - Product details page
  - Add to cart / remove from cart
  - Cart summary & price calculation
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## 3. Checkout & Order Tracking Module

**Purpose:** Completes the purchase process.

**Includes:**

- Checkout page
  - Address selection
  - Payment UI
  - Order confirmation page
  - Order tracking screen
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# BACKEND MODULE

## 1. User Management Module

**Purpose:** Manages user data and authentication.

**Functions:**

- Register & login users
  - Password encryption
  - Role management (Admin / Customer)
  - Session & token handling
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## 2. Product & Inventory Management Module

**Purpose:** Controls products and stock.

**Functions:**

- Add/update/delete products
  - Category management
  - Stock availability
  - Product search API
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## 3. Cart & Order Management Module

**Purpose:** Handles cart and order processing.

**Functions:**

- Store cart data
  - Create orders
  - Order status updates
  - Order history
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## 4. Payment Processing Module

**Purpose:** Secure payment handling.

**Functions:**

- Payment gateway integration

- Transaction validation
  - Payment status updates
  - Refund processing
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## 5. Admin & Reporting Module

**Purpose:** Controls the system and provides analytics.

**Functions:**

- User & product control
- Sales reports
- Revenue analytics
- Offer & discount management