

# Proposed Feature List: E-Commerce Platform (Next.js, FastAPI, MongoDB)

Hi Amit,

Based on our discussion, I've put together a comprehensive feature list for the e-commerce website. I've broken it down into two main sections: Section 1: The Core Functional Website (MVP): This includes all the essential features we need to launch a fully operational store. Section 2: Advanced Features & Polish: These are the "wow-factor" features we can layer on top to make the site truly modern and competitive. My plan is to focus on building Section 1 first to create a solid foundation, and then we can progressively integrate the advanced features.

## Section 1: The Core Functional Website (MVP)

This is the non-negotiable foundation of the store.

### Module 1: User Account System

Customer-Facing:

- Secure User Registration page (Name, Email, Password)
- User Login page
- "Forgot/Reset Password" feature
- User Profile Page with profile editing and address management

Backend: FastAPI with JWT (JSON Web Tokens) and secure password hashing.

### Module 2: Product Catalog System

Admin Panel:

- Full Product Management (CRUD)
- Product Fields: Name, Description, Price, Stock, Image Gallery
- Category Management

Customer Side:

- Product Listing Page (PLP)
- Product Detail Page (PDP)
- Stock Status Display

### Module 3: Shopping Cart & Checkout Flow

Cart Functionality:

- Add to Cart
- Cart Page with subtotal & total

Checkout Process:

- Multi-step checkout (Shipping, Billing, Payment, Review)
- Payment placeholder (Cash on Delivery / Pay by Cheque)

### Module 4: Order Management System

Customer:

- Order Confirmation Page with Order ID
- Order History Page

Admin Panel:

- View & manage all orders
- Update order status (Pending, Shipped, etc.)

### Module 5: Core Admin Panel

- Secure admin login
- Dashboard with key stats
- Manage Products, Categories, and Orders

## Section 2: Advanced Features & Polish (Post-MVP)

### Module 6: Advanced Search & Discovery

- Faceted Search (by price, brand, color)
- Sorting options
- Auto-completing Search Bar

### Module 7: User Experience (UX) Upgrades

- Guest Checkout
- Product Reviews & Ratings
- Wishlist
- Social Login (Google)

### Module 8: Powerful Backend Enhancements

- Payment Gateway (Stripe/Razorpay)
- Product Variants (Size, Color)
- Automated Inventory
- Email Notifications (Welcome, Order Confirmation, Shipping Updates)

### Module 9: Marketing & Promotions Tools

- Coupon Code System
- Homepage Management for Featured/New Products

This structure gives us a clear roadmap. We can get the essential store (Section 1) up and running first, and then strategically add the advanced features (Section 2) to build a truly impressive final product.