

E-Commerce Store Description:

Your web and media agency is creating an e-commerce store for its members (Gaiaic, with 18 team members). The store specializes in home décor, beauty products, kitchen products, and health-related items. The focus is on delivering a modern, user-friendly, and efficient shopping experience with real-time product updates and seamless checkout.

Proposed Design and Architecture

Frontend Development:

- Framework: Next.js for server-side rendering and better SEO.
- Styling: Tailwind CSS for responsive and modern UI.
- Features:
 - Mobile-first design for usability across devices.
 - Dynamic content rendering using TypeScript for robust data handling.

Backend Development:

- Framework: Node.js and Express.js for scalable and efficient API management.
- Content Management: Sanity CMS for:
 - Storing product details (name, description, price, categories, tags, variants, and media).
 - Real-time updates (e.g., changing prices, adding new products).
- Third-Party API Integrations:
 - Payment Gateway (Stripe, Razorpay) for secure payments.
 - Shipment Tracking (FedEx, DHL) for order tracking.
 - Tax and Currency Conversion APIs for global operations.

Key Features and Workflows

User Registration and Login:

- Users can register or log in to the store.
- User data is securely stored in the backend.

Product Browsing:

- Products are categorized for easy browsing.
- Real-time updates using Sanity CMS to ensure fresh content.

Cart and Order Placement:

- Users can add items to the cart and proceed to checkout.
- Checkout process includes payment integration and shipping options.

Shipment Tracking:

- Users can track their orders using shipment APIs.
- Integration with third-party logistics ensures accurate tracking.

API Design

1. Authentication API:

- Login: `/api/auth/login`
- Register: `/api/auth/register`

2. Cart and Checkout API:

- Add to Cart: `/api/cart/add`
- View Cart: `/api/cart`
- Checkout: `/api/orders/checkout`

3. Shipping API:

- Track Order: `/api/shipping/track/{tracking_id}`

Visual Structure (UI/UX Design)

1. Homepage:

- Hero section featuring top categories (Home Décor, Beauty, Kitchen, Health).
- Featured products and current offers.

2. Product Page:

- High-quality product images with zoom-in options.
- Dynamic details (name, price, description, and variants).

3. Cart and Checkout:

- Simple cart view with price breakdown.
- Secure checkout with multiple payment options.

4. Order Tracking:

- Integrated tracking page with real-time shipment updates.