

Day 2: Technical Planning for Clothing E-commerce Website

1. Frontend Requirements

1. **Next.js:** Server-side rendering aur static site generation ke liye.
2. **Tailwind CSS:** Responsive aur modern UI design ke liye.
3. **Pages:**
 1. Home Page
 2. Product Listing Page
 3. Product Details Page
 4. Cart Page
 5. Checkout Page
 6. User Profile / Account Page
 7. Sign In / Sign Up Page

2. Backend (Sanity CMS as Headless CMS)

Data Schema Examples:

1. **Category Schema:**
 - Title aur slug fields define karni hain jo category ko identify karein.
2. **Product Schema:**
 - Product ka title, description, price, category reference, images aur slug fields define karni hain.
3. **User Schema:**
 - User ka name, email aur password fields define karni hain.

3. API Setup

In sab endpoints ke liye API ka use hoga, jo frontend aur backend ke beech communication ke liye zaruri hai.

1. **Product Endpoints:**
 1. **Get All Products:**
 - Method: GET
 - Endpoint: api/products
 - Description: Sare products fetch karne ke liye.
2. **Order Endpoints:**
 1. **Create Order:**
 - Method: POST
 - Endpoint: api/orders
 - Description: Naya order create karne ke liye.
3. **Shipment Endpoints:**

1. **Create Shipment:**

- Method: POST
- Endpoint: api/shipment
- Description: Naya shipment create karne ke liye.

4. Dynamic Routing

1. **Product Page:** product/[slug]
2. **Category Page:** category/[slug]
3. **Reason:** Dynamic routing ka use isliye hota hai takay har product aur category ke liye unique URL generate ho sake, jo SEO friendly ho aur better user experience provide kare.

5. Payment Method

1. **Stripe Checkout Flow:**

1. Frontend pe product details bhejni hain backend ko API ka use karte hue.
2. Backend payment intent create karega.
3. User ko Stripe Payment Page par redirect karega.

6. User Authentication

Authentication ke liye NextAuth.js ka use:

1. Features:
 1. Sign In (API ka use hoga).
 - Sign In functionality implement karne ke liye ek simple form design karein.
 2. Only simple Sign-in has been read.

7. Workflow

1. **Frontend:**

1. Layout (Navbar, Footer, etc.)
2. Home page UI design
3. API integrate karke dynamic product listing

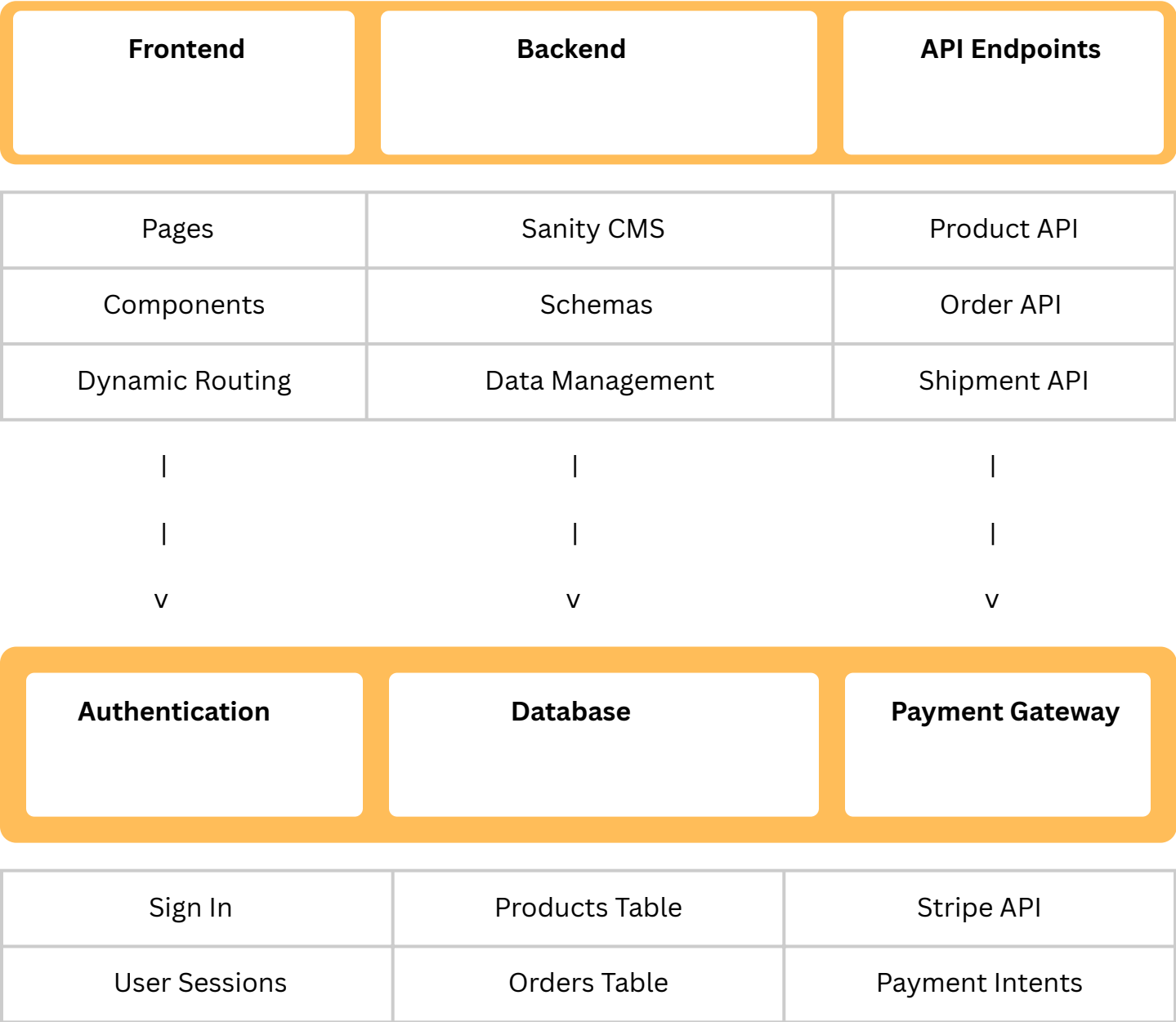
2. **Backend:**

1. Sanity CMS setup
2. Categories, products, aur users ke schemas define krna hai
3. API endpoints test

3. **Integration:**

- 1. Frontend ko sanity se connect kr k API ko sanity ke sath connect krna hai (For more data fetch into Api)
- 2. Dynamic routing ki testing
- 4. **Payment & Authentication:**
 - 1. Payment gateway integrate.
 - 2. Sign-in functionality add krna (API ka use karte hue).

Entity Relationship Diagram:



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