

DAY 2

PLANNING THE TECHNICAL FOUNDATION

1. Define Technical Requirements

Frontend Requirements

- **User-Friendly Interface:** Browse furniture, customizable options, and decor products.
- **Responsive Design:** Seamless experience for mobile and desktop users.
- **Essential Pages:** Home, Product Listing, Product Details, Cart, Checkout, and Order Confirmation.

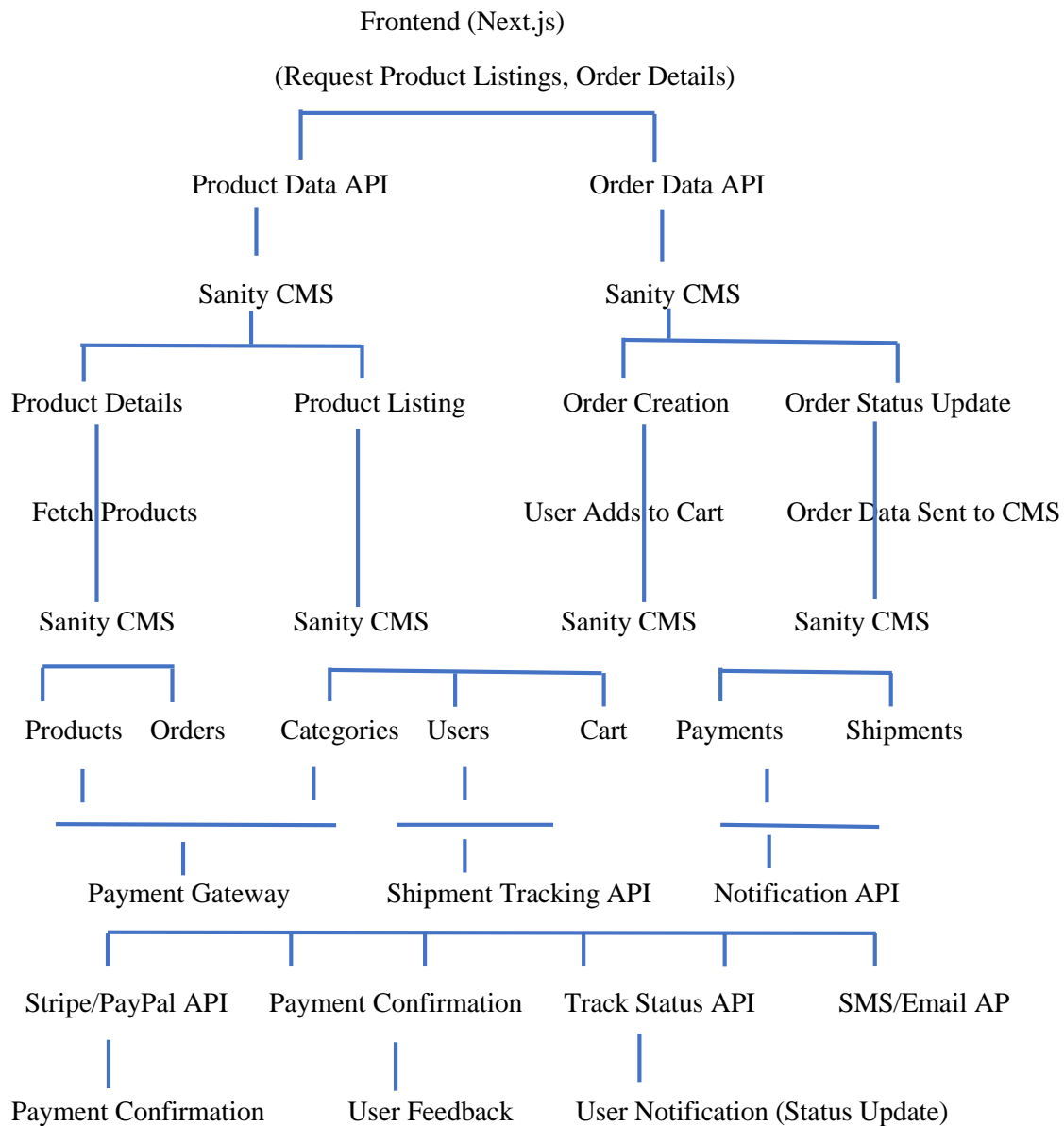
Backend with Sanity CMS

- Manage data for:
 - Products (e.g., customizable furniture, decor).
 - Customers (e.g., profiles, contact info).
 - Orders (e.g., order records, shipment statuses).
- Design schemas aligning with:
 - Diverse categories (sofas, chairs, decor items).
 - User needs for furniture customization and affordability.

Third-Party APIs

- **Shipment Tracking:** Real-time updates.
- **Payment Gateways:** Secure, flexible payment options (credit card support included).
- **Other Backend Services:** Support delivery zones, inventory sync, and custom requests.

2. Design System Architecture



Frontend (Next.js):

- **User Actions:** Browsing products, adding to cart, purchasing.
- **API Requests:** Fetches product, order, and user data from Sanity CMS.
- **User Feedback:** UI updates based on actions (viewing, ordering).

Sanity CMS (Product Data API):

- **Product Data:** Retrieves product details (images, pricing).
- **Order Data:** Saves order details (user, cart items, payment status).
- **Categories, Users, Cart:** Stores product categories, user accounts, and cart data.

Order Management (Order Data API):

- **Order Creation:** Sends order data for checkout and processing.
- **Order Status:** Fetches and updates order status.

Payment Gateway (Stripe/PayPal API):

- **Payment Info:** Sends payment details to the gateway.
- **Payment Confirmation:** Displays success/failure.

Shipment Tracking API:

- **Shipping Info:** Tracks shipment status and updates.
- **User Notification:** Notifies users via SMS/email about shipment.

Notifications (SMS/Email API):

- **Order Confirmation:** Sends confirmation after successful payment.
- **Shipment Updates:** Sends real-time shipping updates.

