DAY 2 PLANNING THE TECHNICAL FOUNDATION

Technical Requirements

1. Frontend Requirements:

- **Home page:**
   Show all featured product, Show more button, our proper setup images etc.
- **Product Page:**
   Each product will have an image, name, price, and "Add to Cart" button. A search bar will be placed at the top to quickly find products.
- **Cate page:**
   Displays selected products with images, names, prices, and quantities.
    Option to update quantities or remove items.
- **Checkout page:**
   Collects billing and shipping details in simple forms.
- **Order Processing:**
   Displays a confirmation message if the order is successful.
   Shows a rejection message if the order is not successful.

2. Sanity CMS as Backend:

Product Data management:
Store product details like name, description, price, images, categories, and stock levels.
Customer Data:
Manage customer information, including name, email, contact number, and addresses.
Oder record:
Record order details, such as order ID, products purchased, total amount, and order status (e.g., Pending, Processed, Delivered).

- Schema Design in Sanity:

1. Product Schema:

- Fields:
- Name (String)
- Description (Text)
- Price (Number)
- Category (Reference or String) Stock Quantity (Number)
- Images (Array of Images)

2. Customer Schema:

- Fields:
- Name (String)
- Email (String)
- Contact Number (String)

- Address (Object with fields like street, city, and postal code)
- Purchase History (Array of References to Order Schema)

3. **Oder Schema:**
   - Fields:
   - Order ID (String)
   - Customer (Reference to Customer Schema)
   - Products (Array of References to Product Schema)
   - Total Amount (Number)
   - Order (Date)

4. **Third-Party APIs:**
   - Shipment Tracking API: (FedEx/DHL)
   - Payment Gateway API: (Stripe/PayPal etc.)

3. Design System Architecture:

```
                    ┌─────────────────┐
                    │    Frontend     │
                    │    (Next.js)    │
                    └─────────────────┘
```

Frontend
(Next.js)

(Request for product id, name, price, description etc.)

Sand a request to fetch payment
and shipping provider

Third party API

Sanity
(Manage content
& store data)

Shipment tracking

Payment gateway

Product data
API