# Day 02 Of Hackathon 3 Planning The Technical Foundation

### Introduction:

My E-Commerce website your one-stop destination for trendy women's clothing, stylish men's apparel, and must-have accessories. Discover fashion that fits your lifestyle, crafted with quality and designed to impress. Our Marketplace aims to provide high-quality, affordable, and stylish clothing and accessories for men and women.

# 1. Define Technical Requirements.

### 1. Frontend Requirements.

#### • Framework:

o For Framework we use Next.js for dynamic UI and server-side rendering.

### • Styling:

o For Styling we use Tailwind CSS for dynamic UI and server-side rendering.

#### · Responsive Design:

o Mobile, tablet, and desktop compatibility.

### · Pages Included:

o Homepage, Shop, Products, Product Details, About, Team, Contact, Price, Login/Register, Cart, Wishlist, Checkout, Order Confirmation, Tracking.

#### 2. Sanity CMS as Backend.

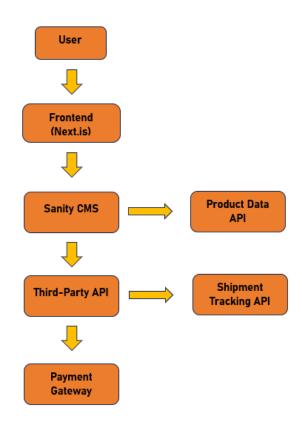
Use Sanity CMS to manage product data, customer details, and order records. Sanity acts as the database.

#### 3. Third-Party APIs.

Integrate APIs for shipment tracking, payment gateways, and other required backend services.

# 2. Design System Architecture

Creating a diagram to show how system components interact below.



## • Components Interact:

**Frontend Next.js:** Frontend Next.js Interact by sharing data via props, context, and state, while fetching dynamic content through API calls.

**Sanity CMS**: Sanity CMS interacts by providing real-time content via APIs, allowing frontend frameworks to fetch, manage, and display structured data dynamically.

**Third party API**: Third-party APIs interact by sending HTTP requests (GET, POST, etc.) and receiving responses (JSON/XML) to exchange data between systems.

**Payment Gateway**: Payment gateways interact by securely processing payment details from the frontend and returning transaction statuses via API responses.

# Key Workflows

- **1.Product Browsing**: Users search for products or navigate through categories, view product details, and filter results.
- **2.Adding to Cart**: Users select products, specify quantity or size, and add them to the shopping cart.
- **3.Order Placement**: Users proceed to checkout, provide shipping information, choose a payment method, and confirm the order.
- **4.Shipment Tracking:** Users receive tracking information post-order placement and can track the status of their shipment in real-time.

# API Endpoint

Endpoints	Method	Description	Response Example
/products	GET	Fetch products details	<pre>{"id": 1,     "name": "T-shirt",     "category": "men's     wear",     "price": 1000,     "Description":     "Stylish Men's     Wear"     "stock": 50,     "image":     shirt.png",}</pre>
/order	POST	Place a order	{"orderId": 34569,  "productId": 1,  "Quantity": 2,  "payment": 2000,  "totalAmount": 2500,  "userId": 123}
/customer	POST	Register/Update customer details	{"customerId": 566,  "address": "xyz",  "contactNumber": 0315557687,  "Name": "Asiya",  "orderHistory": "Order Confirmed"}

/deliveryZone	GET	Fetch updates of delivery zone	{"zoneName": "latifabad", "coverageArea": 1567, "assignedDriver": "leopard"}
/shipment	GET	Track the status of Shipment	{"orderId": 34569,  "shipmentId": 1566767878,  "status": "Delivered",  "deliveryDate": 2025-02-28}

# 3. Sanity Schema

## Product Schema:

### **Customer Schema:**

### Order Schema:

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