

DAY 2

Planning The Technical Foundation

TECHNICAL REQUIREMENTS

FRONTEND REQUIREMENTS:

The frontend includes a user-friendly interface that allows users to:

1. Browse products on the **home page**.
2. Navigate to the **product listing page** to view all available products.
3. Visit the **product details page** to see more information about a selected product.
4. Add products to the **cart** and proceed to the **checkout** page to place an order.
5. Receive an order summary on the **order confirmation page**.

Additional pages include:

- **About Us**: Information about the marketplace.
- **Contact Us**: A form or details for users to get in touch.

The design of the website will be fully responsive, ensuring compatibility across all screen sizes (desktop, tablet, and mobile).

SANITY CMS AS BACKEND:

For the backend, I will use **Sanity CMS** to handle:

1. **Product data**: Managing product details like name, price, and stock.
2. **Order details**: Storing and tracking customer orders.
3. **Customer information**: Managing user profiles and contact details.

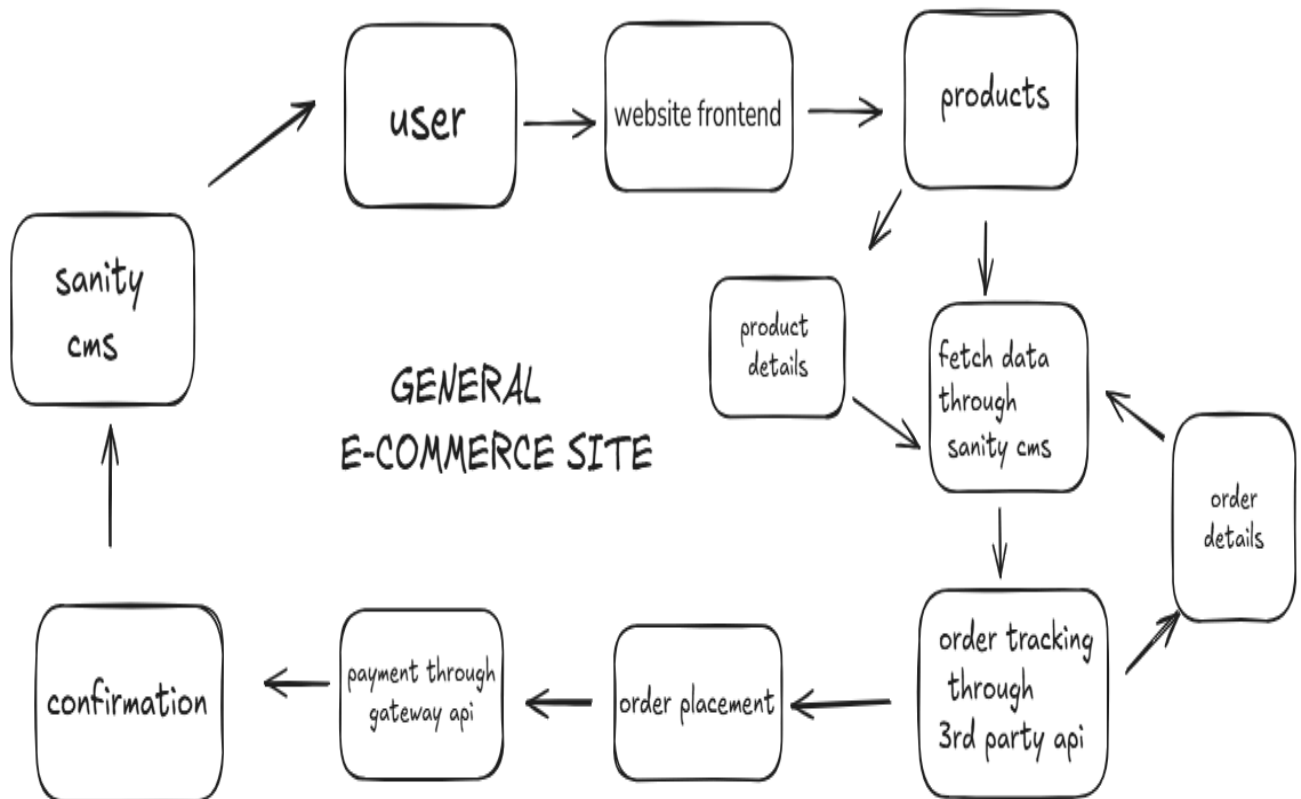
Sanity will manage this data through structured **schemas** and act as the **database** for my e-commerce marketplace.

THIRD PARTY APIS:

Third-party APIs will:

1. Provide **product data** that will be imported into Sanity CMS for management.
2. Assist with **shipment tracking**, allowing users to monitor their orders in real-time.
3. Enable **payment processing**, securely handling transactions for the backend.

SYSTEM ARCHITECTURE



PLAN API REQUIREMENTS: FOR PRODUCTS

Endpoint Name :/products

Method: Get

Description: Fetch all the products from the database to the frontend

RESPONSE EXAMPLE:

```
{  
  
  "id": 1,  
  "name": "Product A",  
  "price": 100,  
  "label": "New Arrival",  
  "stock": 50,  
  "Image": "example.png"  
  "description": "This is a sample product description."  
  
}
```

FOR ORDER

Endpoint Name :/order

Method: post

Description: this will save the order data in sanity

RESPONSE EXAMPLE

```
{  
  "orderId": "12345",  
  "productId": "67890",  
  "quantity": 2,  
  "size": "M",  
  "customerInfo":  
  { "name": "John Doe",  
    "email": "john.doe@example.com",  
    "phone": "123-456-7890",  
    "address": "123 Main Street, City, Country" },  
  "productDetails": {  
    "name": "Product A",
```

```
"price": 100 },  
"status": "Processing" }
```

FOR SHIPMENT:

Endpoint Name :/shipment

Method:get

Description: this will track the order status through third party api

RESPONSE EXAMPLE

```
{  
  "shipmentId": "98765",  
  "orderId": "12345",  
  "status": "In Transit",  
  "actualDeliveryDate": "2025-01-25"  
}
```