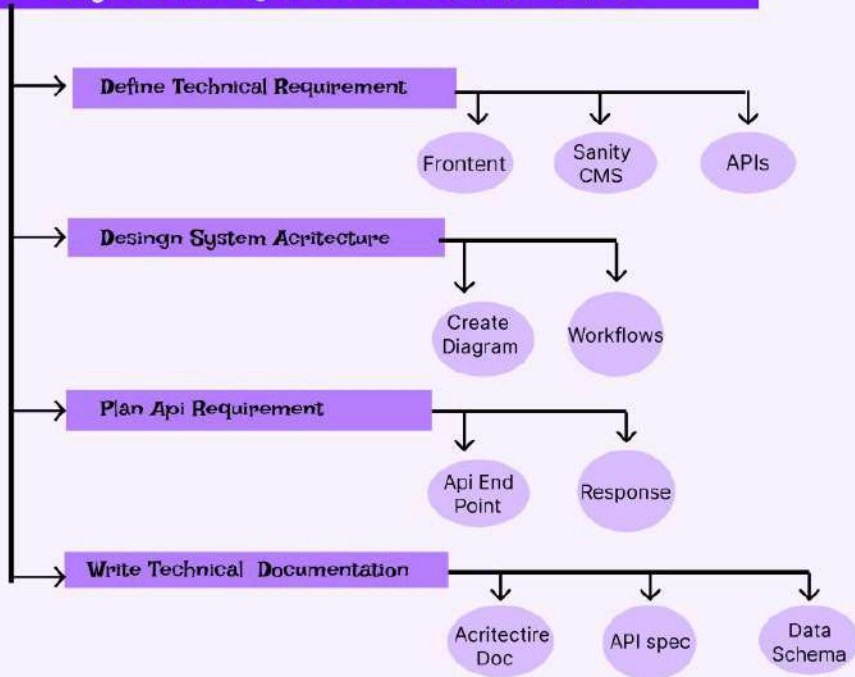


## Day 2: Planing the technical foundation



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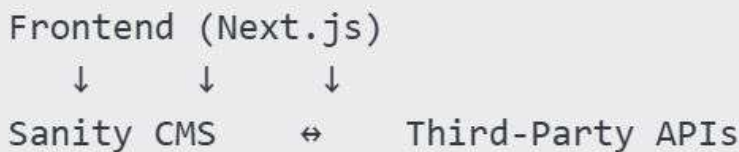
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# Technical Plan for General eCommerce Marketplace

## 1. System Overview

### Architecture Diagram:



### Key Components:

#### 1. Frontend (Next.js):

- Serves as the user-facing layer for interaction.
- Displays products, cart, and order details dynamically by fetching data.

#### 2. Sanity CMS:

- Acts as the backend database for managing products, customers, and

## 2. Sanity CMS:

- Acts as the backend database for managing products, customers, and orders.

## 3. Third-Party APIs:

- Integrates additional functionalities like shipment tracking and payment processing.

## Example Data Flow:

1. A user explores the product catalog on the frontend.
2. Product details are fetched in real-time from Sanity CMS.
3. After an order is placed:
  - The system saves it to Sanity CMS.
  - Shipment data is retrieved from an external API.
  - Payment is processed via a gateway API, and the status is updated.

## 2. Core Processes

### Product Display:

- Customers browse product categories or search for specific items.
- Product data is retrieved via the `/products` endpoint from Sanity CMS.

### Checkout Process:

- Users select items and proceed to the checkout page.
- The system collects user details and processes the order, saving it in Sanity CMS.

### Order Tracking:

- Order updates are fetched through a third-party API.
- Tracking information is shown on the customer's account page.

### 3. API Definitions

Endpoint	Method	Purpose	Example Response
/products	GET	Fetches a list of available products.	{ "id": 1, "name": "Product A", "price": 100 }
/orders	POST	Submits a new order to the system.	{ "orderId": 123, "status": "Order Placed" }
/shipment	GET	Retrieves shipping status for orders.	{ "shipmentId": 789, "status": "Out for Delivery" }

## 4. Sanity Schema Design

### Product Schema:

```
export default {  
  name: 'product',  
  type: 'document',  
  fields: [  
    { name: 'productName', type: 'string', title: 'Name of the Product' },  
    { name: 'productPrice', type: 'number', title: 'Product Price' },  
    { name: 'availableStock', type: 'number', title: 'Stock Quantity' },  
    { name: 'productImage', type: 'image', title: 'Product Image' },  
  ],  
};
```

## Order Schema:

```
export default {
  name: 'order',
  type: 'document',
  fields: [
    { name: 'customer', type: 'string', title: 'Customer Name' },
    { name: 'orderedItems', type: 'array', title:
      'Products Ordered', of: [{ type: 'reference',
        to: [{ type: 'product' }] }] },
    { name: 'orderTotal', type: 'number', title:
      'Total Order Value' },
    { name: 'status', type: 'string', title:
      'Order Current Status' }
  ]
};
```

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