

16/1/25 Roll no: 80713

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Day 2 Planning The Technical Foundation Of E-commerce Market Place

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Introduction :-

I am creating an E-commerce platform where there will be shoes, clothing, and other products. I am preparing this for its technical foundation and to plan how I scale it.

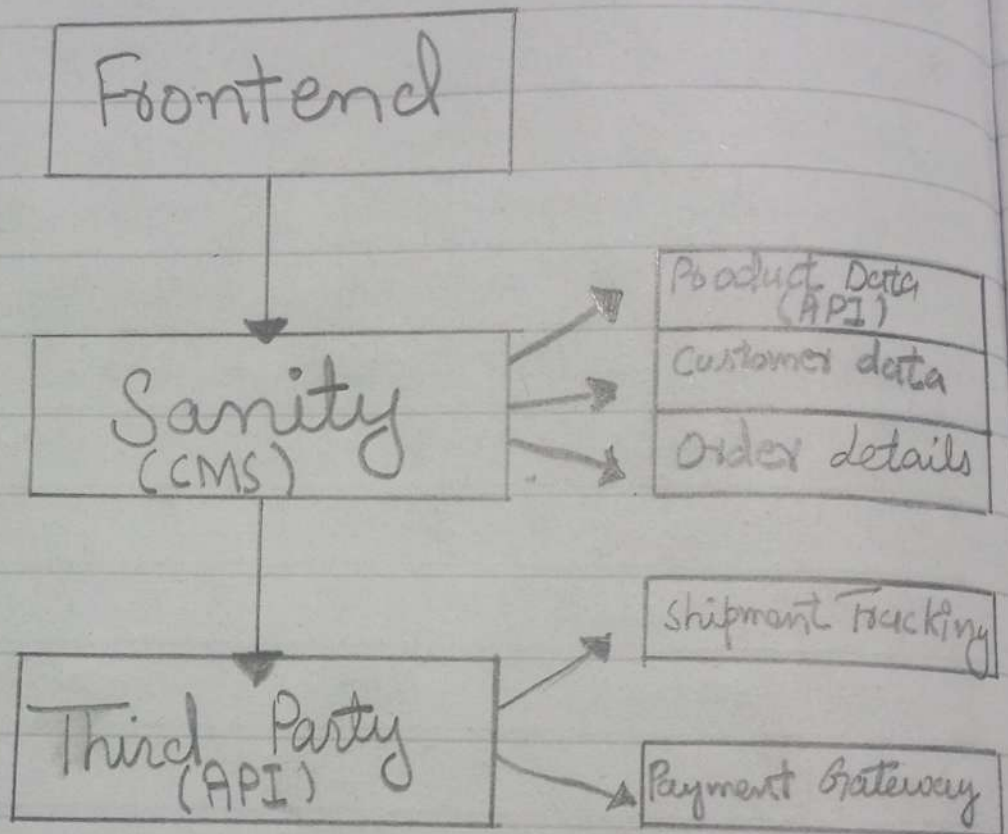
Explaining Technical Requirements

Frontend Requirement :-

I am using Tailwind CSS, Next.js, and Typescript for Frontend development.

- User friendly Interface for Browsing Products.
- Responsiveness UI for all devices
- Essential Pages (Home, Products, Product detail, Cart and checkout)

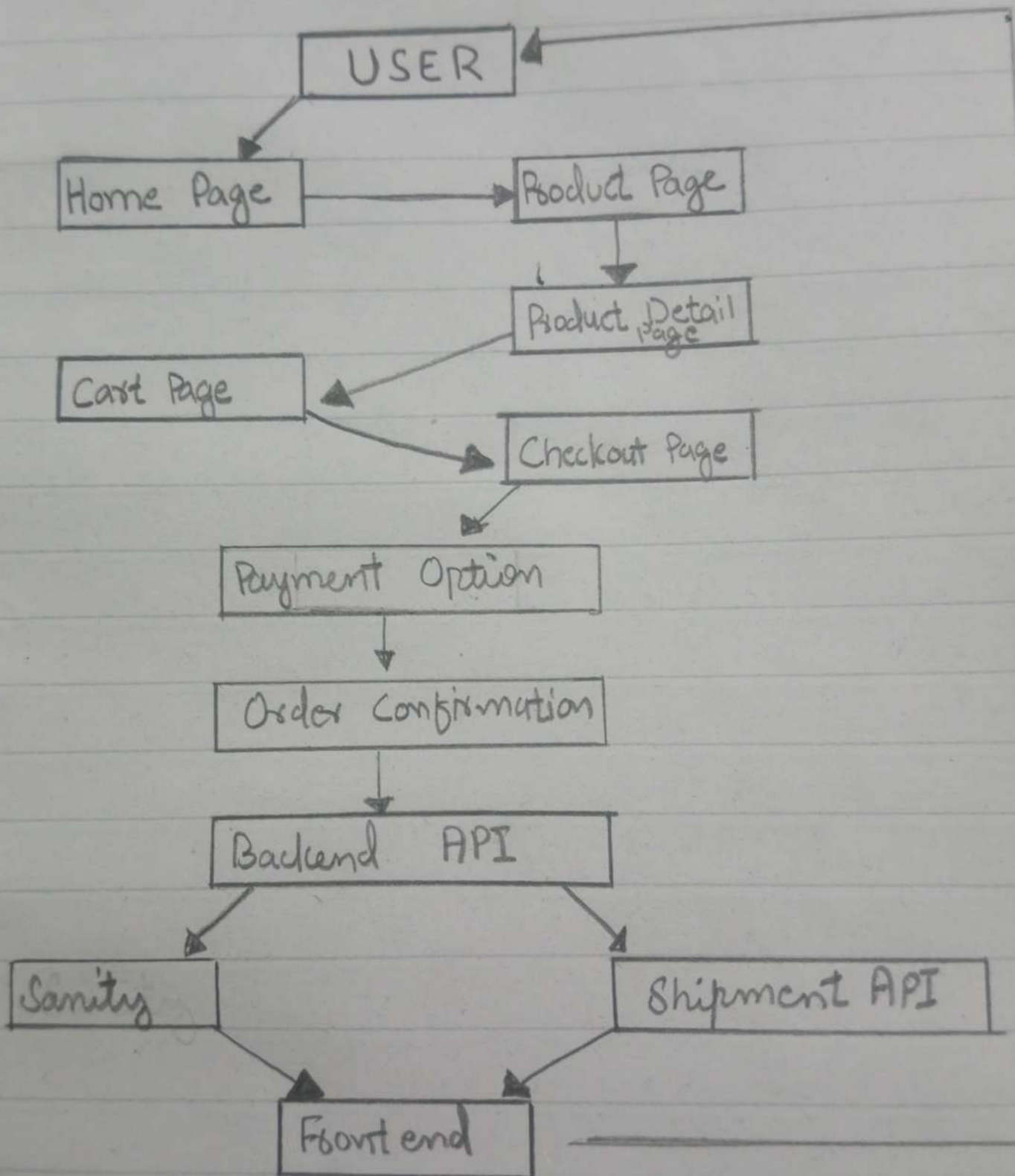
2/ Design System Architecture



3/ API Requirements

API's	Endpoints	Method	Description
Authentication API	/API/auth/signup	Post	Registers new User
Product API	/API/Products	GET	Fetch product
Cart API	/API/Cart/add	Post	Add Items to Cart
Checkout API	/checkout	Post	Process Payment
Orders API	/Order	Post	Make a new Order
Shipment API	/Shipment/ID	Get	Fetch shipment status

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Backend Requirements:-

Sanity CMS :-

I am using Sanity as a backend to manage data, such as when a user logs in, their data is stored in Sanity. Similarly, product data is also saved in Sanity, allowing you to manage it there, including updating, deleting, posting and more. Additionally, order data, along with user details is also managed within Sanity.

Third Party APIs Requirement:-

- ▶ Shipment tracking: Real Time Tracking
- ▶ Payment Gateway:

```
3 export const productSchema = {
4   name: 'product',
5   title: 'Product',
6   type: 'document',
7   fields: [
8     {
9       name: 'productName',
10      title: 'Product Name',
11      type: 'string',
12    },
13    {
14      name: 'category',
15      title: 'Category',
16      type: 'string',
17    },
18    {
19      name: 'price',
20      title: 'Price',
21      type: 'number',
22    },
23    {
24      name: 'inventory',
25      title: 'Inventory',
26      type: 'number',
27    },
28    {
29      name: 'colors',
30      title: 'Colors',
31      type: 'array',
32      of: [{ type: 'string' }],
33    },
34    {
35      name: 'status',
36      title: 'Status',
37      type: 'string',
38    },
39    {
40      name: 'image',
41      title: 'Image',
42      type: 'image', // Using Sanity's image type for image field
43      options: {
44        hotspot: true,
45      },
46    },
47    {
48      name: 'description',
49      title: 'Description',
50      type: 'text',
51    },
52  ],
53 }
```