Marketplace Technical Foundation - [E-Commerce]

Day-02

Defining Technical Requirements:

- **Frontend:**
  - **Home Page.**
  - **Cart.**
  - **Product Listing.**
  - **Searching Products.**

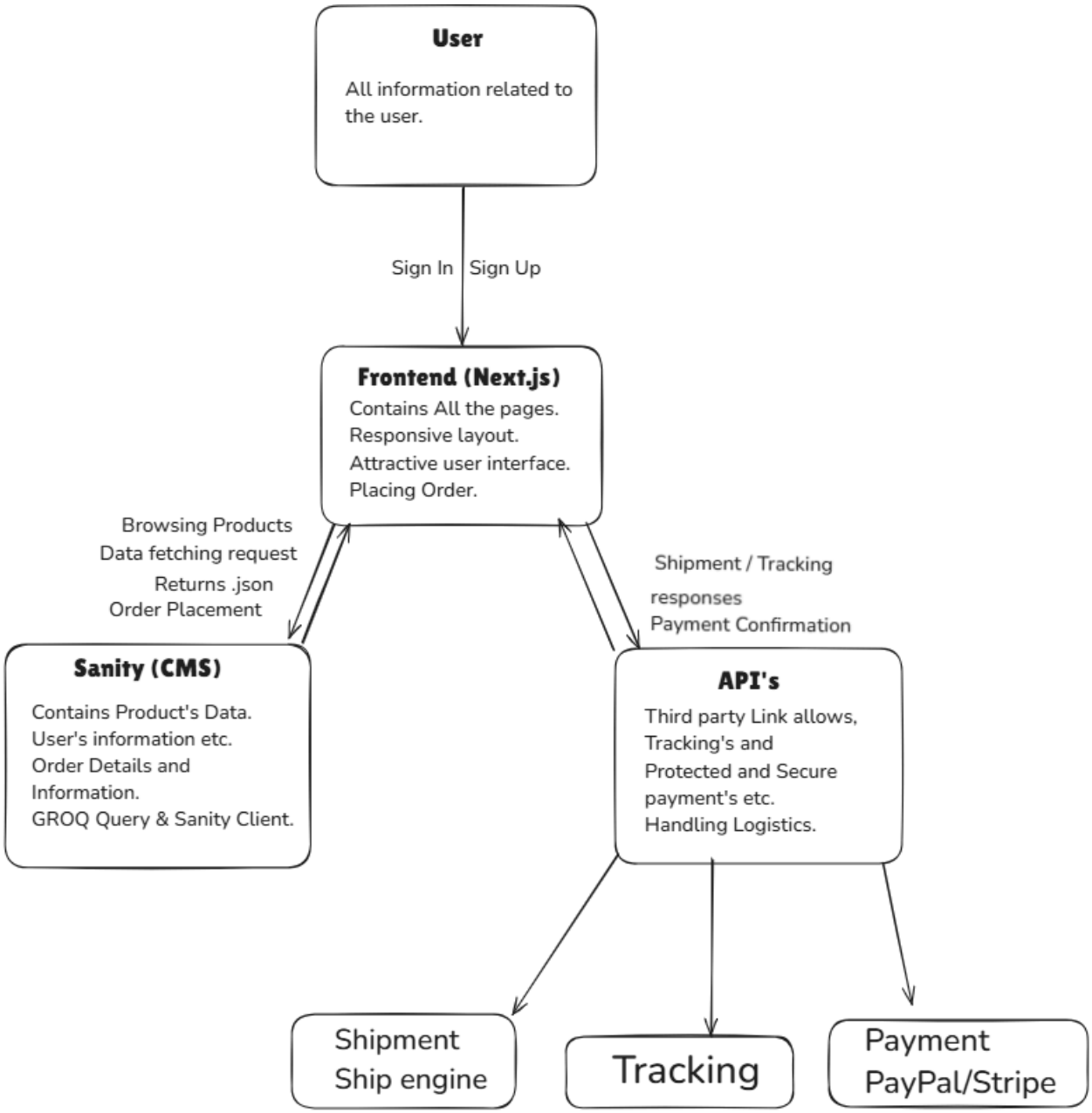
- **Key Points:**
  a. Your User Interface is a key to attract the audience and to provide them a straight-forward approach to their desired product's category. It's also essential because it might be possible that the user is not the expert of using the complex sites.
  b. There is a possibility the different user have different type of devices from which they are using the store. So, responsiveness is also an important aspect.
  c. Navigation is the feature that links with the point 1 the easy and attractive user interface. So, the related pages should have the correct and understandable names for proper and easy navigation.
  d. Buttons should standout in the visibility and they have a proper color scheme so they wouldn't look bad.

- **Sanity CMS:**
  - Now on I and all my fellows are going to use SANITY as a backend which will handle and manage the product's data, user's information, order's information, shipment's information etc.
  - Well, while using SANITY the schema is an important aspect and it should be correctly defined with no unnecessary data.

- **API's:**

- Third party API’s will provide us the shipment, tracking information as well as an easy gateway of Payments.
- So, it is mandatory to define all essential fields to it.

System Architecture:



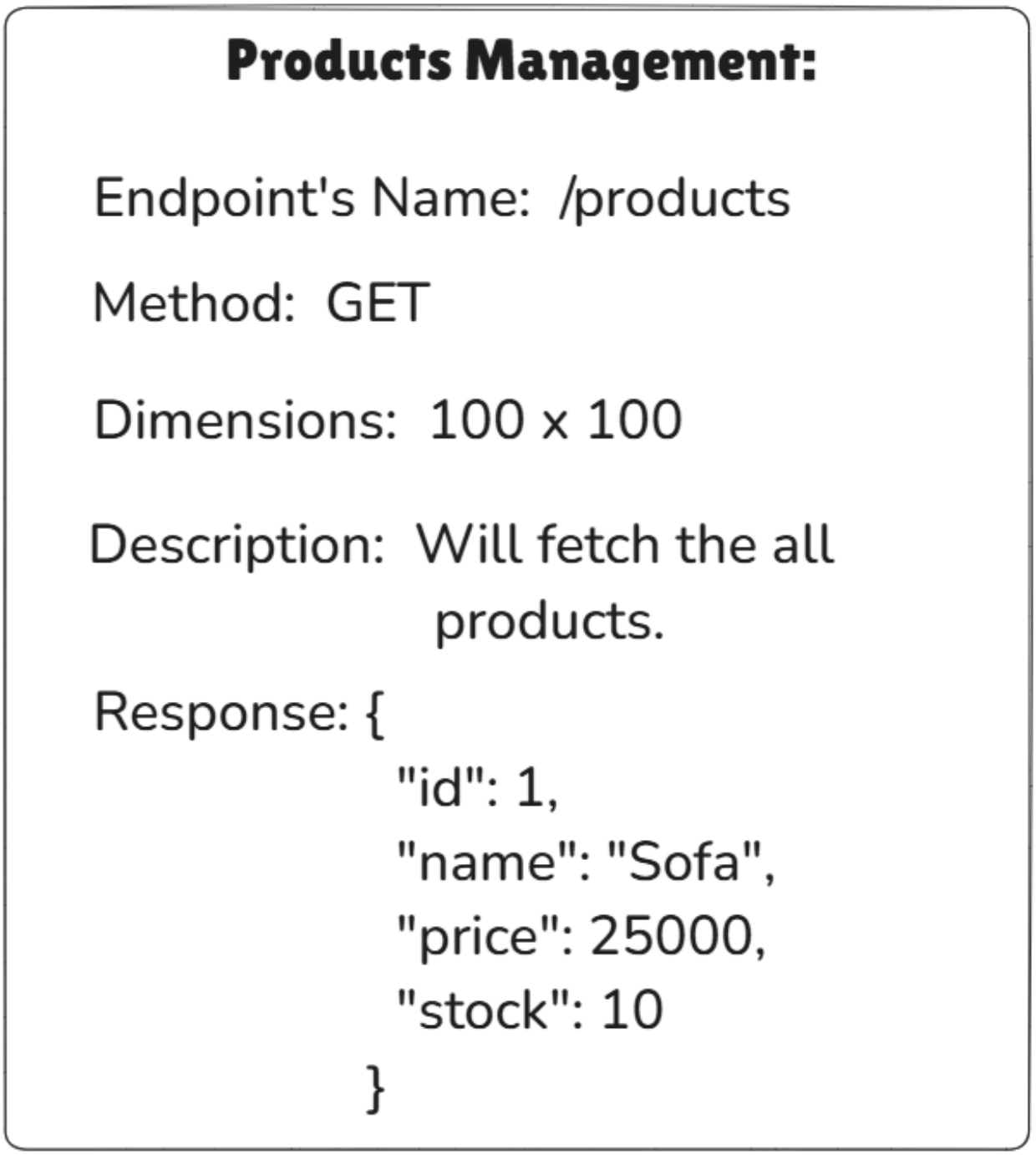
API Requirements:

Defining **API’s Endpoints** as per the designed **Schema.**

Related to General **E-Commerce:**

Well, the endpoints and the fields may warry with the information to be managed.

- **Product’s Management.**



- **Order Management.**

Orders Management:

Endpoint's Name: /orders

Method: POST

Description: Order Placement.

Response: {

"orderId": 1,

"product": [{"id": 1,

"name": "Sofa",

"price": 25000,

"dimensions": 100x100, }]

}

- **User Management.**

User Management:

Endpoint's Name: /auth/login

Method: POST

Description: User Login.

Response: {

```
"usreld": 1,
"name": "abc",
"email": "efg@xyz.com",
"phone": 123456789
"address": "City 123"
}
```

Data Schema:

Major Entities Defined:

- Products
- Orders

- Users

Relationship with CMS:

1. Their relationship with the CMS is an important point because these are the key words or key items that are use for connections and management with the CMS.
2. They are also used to connect with each other as well like the order belongs to some product and the user is somehow connected to the product he/she ordered.

Technical Roadmap:

Well, the method and roadmap I personally prefer is that:

- First of all, I read the Document carefully and extract key points and major Tasks from it.
- Then, I start thinking and gathering ideas on each specific topic.
- Also, If I think I’m facing some problem in my Work. I just msg the Senior Student / My Team Leader.
- When I’m done with all necessary preparation then I start working on the actual project and starting fair the either It is related to paper/pencil or its the CODE. I follow this approach.

Took review & guide and here this productive Day Ends.