# Hackathon Day 2

## Planning the Technical Foundation:

1. Technical Requirments:

### My Business Goals:

#### Frontend;

1. Ensure users can easily explore products and access esential product information.
2. Show detailed product information, including images, description and price.
3. Ensure the platform is fully responsive and mobile-friendly.
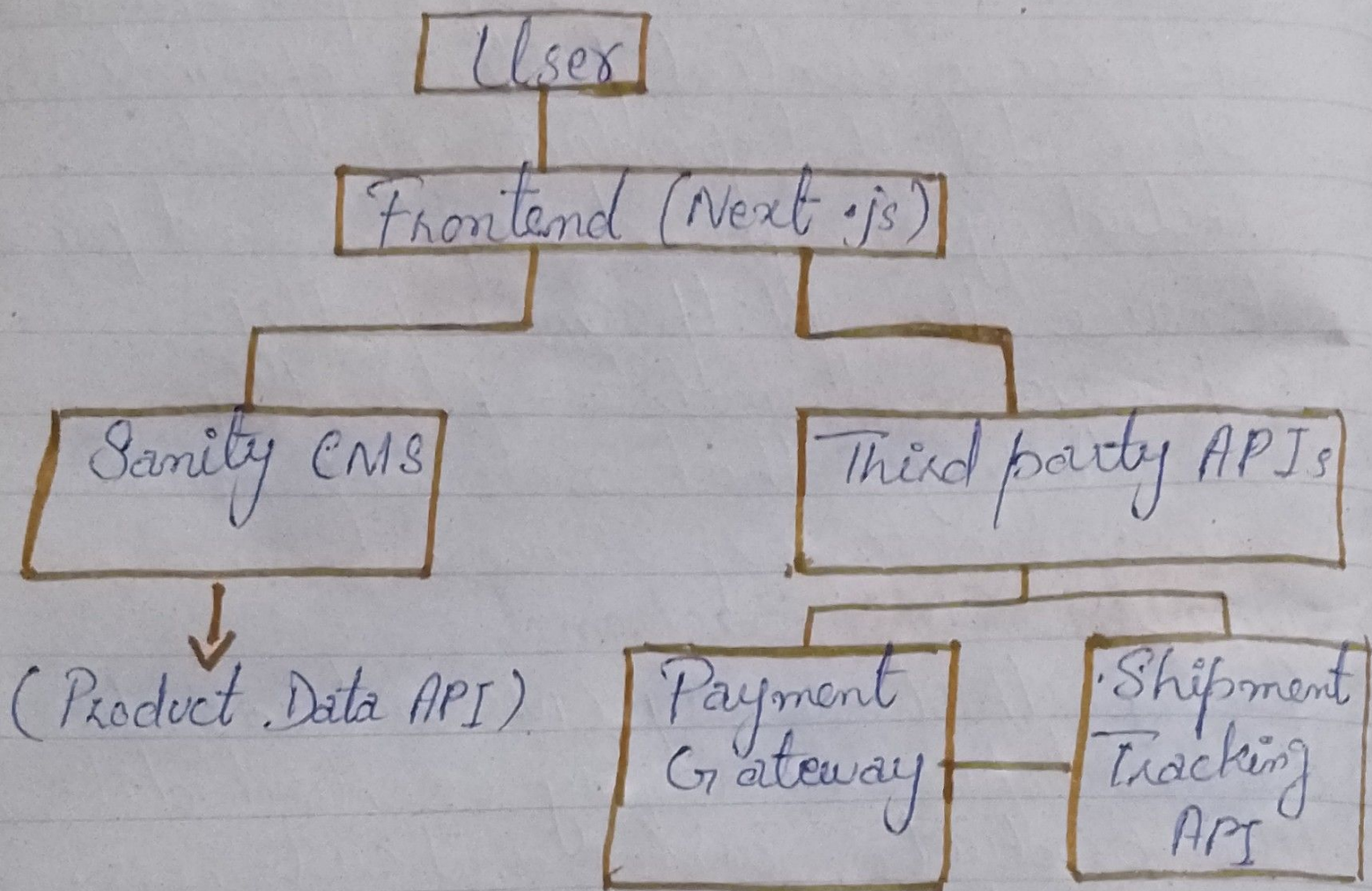4. Provide pages that users expect in an ecommerce experience.

#### Sanity CMS Backend;

1. Ensure that sanity CMS acts as the backend for managing essential data like products, order and customers.
2. Creat structured schemas that align with the business needs of my platform.

## Third - Party APIs:

1. Integrate with shipment service to track orders and provide real-time shipping updates.

2. Integrate a payment gateway to handle secure transactions.

## 2. Designing System Architecture:

```
                  ┌──────────┐
                  │   User   │
                  └──────────┘
                        │
            ┌───────────────────────────┐
            │  Frontend (Next .js)      │
            └───────────────────────────┘
              │                    │
     ┌─────────────┐       ┌──────────────────┐
     │ Sanity CMS  │       │ Third party APIs │
     └─────────────┘       └──────────────────┘
            │                 │            │
            ▼          ┌────────────┐  ┌────────────┐
  (Product . Data API) │  Payment   │  │ .Shipment  │
                       │  Gateway   │──│  Tracking  │
                       └────────────┘  │    API     │
                                       └────────────┘
```

# 3. Planning API Requirements:

| Endpoint | Method | Description | Response |
|---|---|---|---|
| products | GET | Fetch all available product details | [{"id": 1, "name": "Product A", "Price": 100, "stock": 50, "image": "ur"}] |
| Orders | POST | Create a new order in Sanity | { "orderID": 1234, "status": "orderplaced"} |
| Shipment | GET | Track order status via third-party API | {"shipment ID": SHIP1234, "orderID": 1234, "status": "In Transit"} |
| Payment | POST | Process payment details via third-party API. | {"Payment status": "success", "Payment TransactionID": "TXN1234"} |