PLANNING THE TECHNICAL FOUNDATION E-COMMERCE MARKITPLACE HACKATHON 2025

User Interface

- **Frontend Requirements:**
  User friendly interface with next.js and tailwind css
- Home
- Product listing
- Product detail
- Cart checkout
- Order confirmation

Sanity CMS Backend Requirement

Use Sanity CMS for data storage and schema creation

- Product data
- Customer detail
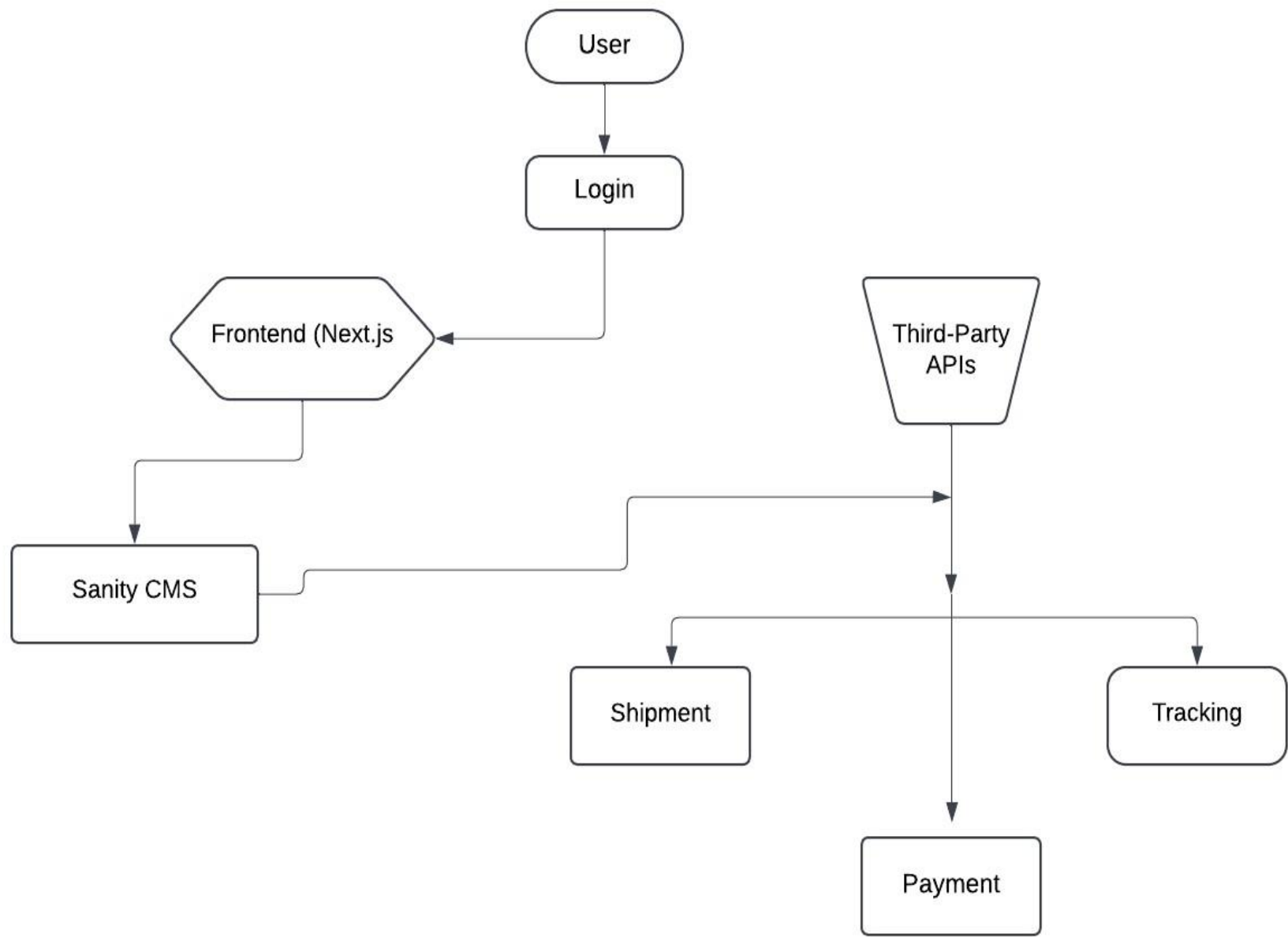- Order record

Third-Party APIs:

- Shipment
- Tracking
- Payment

2. Design System Architecture

- Create a workflow showing how the frontend (e.g., built with Next.js) interacts with:
  - **Sanity CMS** for fetching and managing product and order data.
  - **Third-party APIs** for shipment tracking and payment processing.

COMPONENT

"E-Commerce Platform Architecture with Sanity CMS and Third-Party APIs"

```
                    ┌──────────┐
                    │   User   │
                    └──────────┘
                         │
                         ▼
                    ┌──────────┐
                    │  Login   │
                    └──────────┘
                         │
   ┌───────────────┐     │                    ┌──────────────┐
   │ Frontend (Next.js│◄──┘                    │ Third-Party  │
   │               │                           │    APIs      │
   └───────────────┘                           └──────────────┘
         │                                           │
         ▼                                           │
   ┌───────────────┐         ┌─────────────────┐     │
   │  Sanity CMS   │─────────►                 │     │
   └───────────────┘                                 │
                                                     ▼
          ┌──────────────┐      ┌──────────┐      ┌──────────┐
          │  Shipment    │      │ Payment  │      │ Tracking │
          └──────────────┘      └──────────┘      └──────────┘
```

User → Login → Frontend (Next.js → Sanity CMS → Third-Party APIs → Shipment, Payment, Tracking

End Points	Method	Description	Response Example
Product	Get	It ill going to Fetch all the product details	{Product [{ "id": 1 "Name": "Adidas", "Price"$200: }]}
Order	Get	It ill going to Fetch all the order details	{Order[{"Order:804" Status Ongoing, Customer:3 product: 4}]}
Payment	Get	It ill going to Fetch all the payment for another	{Payment[{"Payment:9" Status Success, Payment Date:05-01-25}]}
Shipment	Get	It ill going to Fetch all the shipment details	{Shipment[{"Shippment:3" Status Success Order:2 Date:06-01-25}]}
Customer-History	Get	It ill going to Fetch all the order details	{ Customer-History [{"Order:5" Order-History:2 Customer:3}]}