Hackathon 3

Hackathon Day 2: Planning The Technical Foundation

<u>Marketplace Technical Foundation</u>

Technical Requirement:

Frontend Setup:

➔ Build a modern frontend using Next JS
➔ Tailwind CSS for styling full responsiveness for all devices

Pages:

Homepage: includes Hero banner, display feature products & product category.

Product: page with New Arrivals, Sales, Top rated product.

Product Detail Page: page which show the complete detail of each products.

Cart & Checkout: page that adding items and complete the process of purchasing.

Backend Setup:

➔ Configure Sanity CMS for Data Management like:

. All products with details (ID, name, description, image, price, stock etc.)

. Customer Information (ID, name, email, address)

. Order History (order ID, product purchase, payment status)

. Shipping Data

Third-Party APIs:

. Payment Gateway (stripe for transaction)

. Shipment Tracking (for delivery)

Product Browsing Workflow:

- User visit the Homepage and click products.
- Product data fetched dynamically from sanity CMS via API.
- Selected products details, description, pricing, availability are displayed on the frontend using Sanity API responses.
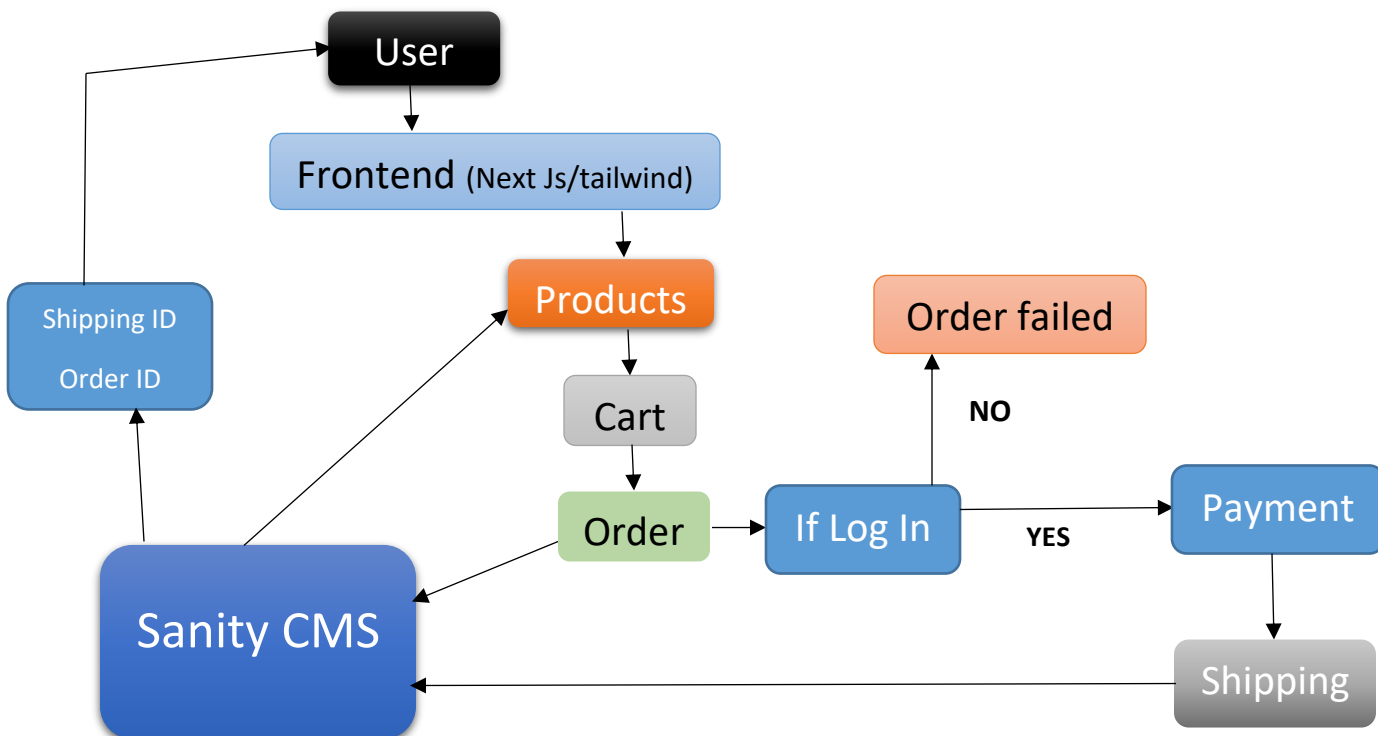
Order Placement Workflow:

- User add items to the Cart.
- If User is Logged IN than User can place their Order.
- If not Logged IN the Order Will be failed.
- After this User proceed to checkout page and submit the Order.
- Order Data, including product details, customer information these things stored in Sanity.

Shipment Tracking Workflow:

- After order confirmation unique shipment ID is generated and stored.
- Shipment data is fetched through third-party shipment API.

Design System Architecture

API Endpoints:

- /product
  Method: GET (fetched all the products)

- /Order
  Method: POST (create new order and proceed to payment process)

- /Shipment
  Method: GET (status about shipment on shipment ID)