

TECHNICAL FOUNDATIONS OF MY MARKETPLACE HACKATHON

Day 2 Activities: Transitioning to Technical Planning

1. Defining Technical Requirements

Technologies

- i. Next.js
- ii. Shadcn library for pre made components
- iii. React icons for icons
- iv. Sanity(CMS) as backend

Frontend Requirements:

- o User-friendly interface for browsing products.
- o Responsive design for mobile and desktop users.
- o Essential pages: Home, Product Listing, Product Details, Cart, Checkout, and Order Confirmation.

Sanity CMS as Backend:

- o Sanity CMS to manage product data, customer details, and order records. Sanity acts as the database for my marketplace.
- o Focusing on designing schemas in Sanity to align with the business goals from Day 1.

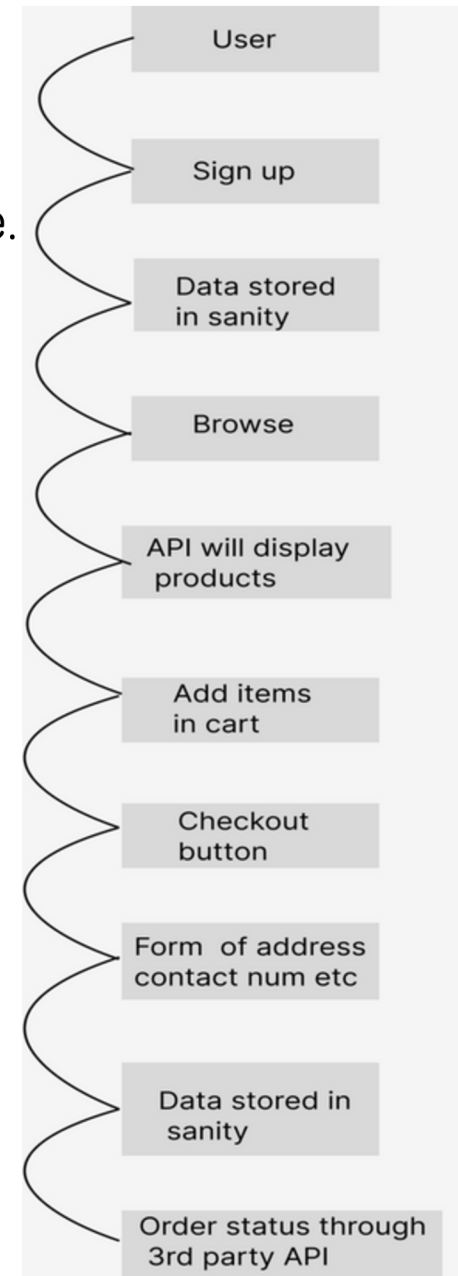
Third-Party APIs:

- o APIs will be provided by our Teachers
- o Ensure APIs provide the necessary data for frontend functionality.
- o Implementation of APIs according to product requirement

System Architecture

The whole architecture of the website is defined in this picture.

- User will sign up.
- User data will be stored in sanity
- The API will provide products details as the user visits product page
- As user adds items in cart and clicks on checkout button a form will appear
- After submitting form the data will be stored in sanity
- The user will get the status of the order from Order details page and the status will be from a 3rd party API means shipment API and the payment system will be COD cash on delivery



API REQUIREMENTS

Planning API Requirements

1. Endpoint Name: /products
 - Method: GET
 - Description: Fetch all available products from Sanity.
 - Response: Product details (ID, name, price, stock, image).
2. Endpoint Name: /orders
 - Method: POST
 - Description: Create a new order in Sanity.
 - Payload: Customer info, product details, payment status.
3. Endpoint Name: /shipment
 - Method: GET
 - Description: Track order status via third-party API.
 - Response: Shipment ID, order ID, status, expected delivery date.

DATA SCHEMA

Task 3: Data Schema

• Entities

- i) Product
- ii) Shopkeeper
- iii) Customer
- iv) Delivery Zones
- v) Order
- vi) Shipment
- vii) Payment
- viii) Stock or Warehouse

• Relation between entities

[Customer]

- ID
- Name
- Contact info
- Address
- Order history

[Product]

- ID
- Name
- Price
- Stock
- Tag

[Order]

- ID
- Product ID, Price, List of product
- Quantity
- Status
- Timestamp - Total Price

[Shopkeeper]

[Stock]

- is available
- Product ID

[Shopkeeper]

- is Recived
- Account Number

[Payment]

- COD
- Order Total Price
- is paid

[Shipment]

- ID
- Order ID
- Status
- Delivery date: {
- Expected
- Actual }

[Delivery Zones]

- Zone Name
- Coverage area
- Assigned driver: {
- Name
- Contact info }