MARKET PLACE HACKTHON
BULDER 2025

DAY 2

PLANNING THE TECHNICAL FOUNDATION

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Technical Requirement:

1.fronend:

next js and tailwind css: Responsive modern for all device.
key pages: Home ,categories Product detals , Dashboard , payment , cart order confirmation

2.Backend (sanity CMS) :

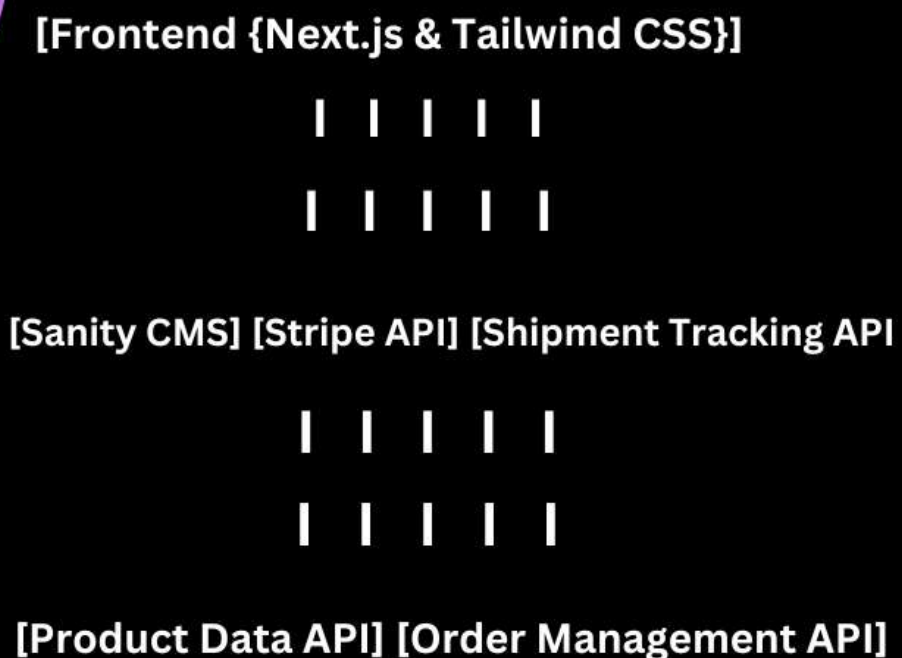
Schema Design: manage product details customer info and orders
Real Time Update: Dynamic pricing and availability

3.Third-Part APIs:

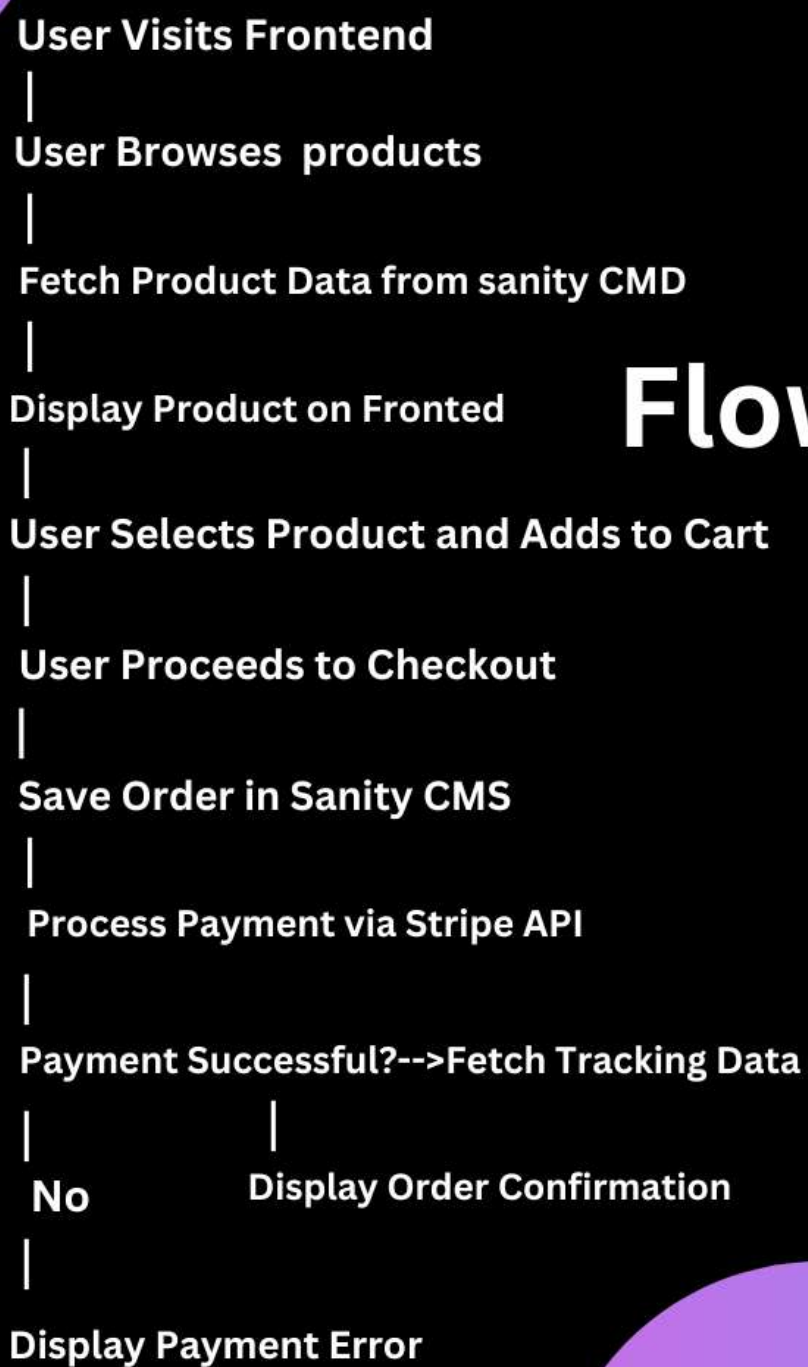
stripe payment: Safe and smooth payments in multiply currencies
Shipment Tracking: Real- time updates for deliver

2.Desing System Architecture

Software Architecture



Flow Chart:


User Visits Frontend
User Browses products
Fetch Product Data from sanity CMD
Display Product on Fronted
User Selects Product and Adds to Cart
User Proceeds to Checkout
Save Order in Sanity CMS
Process Payment via Stripe API
Payment Successful?-->Fetch Tracking Data
No
Display Order Confirmation
Display Payment Error

Algorithm:

Product Prowsing:

Fetch product data from sanity CMS and disply dynamic listings

Order Placement:

add product to cart proceed to checkout and save order in sanity CMS

Payment processing:

Process payment via stripe API and update order status

Shipment Tracking:

Fatch and display tracking detals from the Tracking API

3.Plan API Requirements

1.Fetch product Categories

2. Add order Details

3.Creat New Order

4.Track Shipment

1.Add Order Details

- Endpoint /order-duration
- Method POST
- What it does saves order
- Details for a specific product
- Payload :('productld':456""deposit" 500
- Response:("confirmationld":
  789.'status': 'success')

2. Creat New Order

- Endpoint: /orders
- Method:POST
- What it does Saves a new order in sanity CMS
- Payload Customer info. product details. payment status

3.Track Shipment

- Endpoint /shipment
- Method GET
- what it does Fetches real-time trackinginfo for Product delivery /pickup.
- Response:shipment ID. order ID status Expected delivery date

Diagram:

2. KEY WORKFLOWS

User BroWwsing:

. User visits the site.

. Frontend fetches product data from sanity CMS

. Displays product with filters (type.price).

Order Placement:

. User selects productand adds to cart.

. Proceeds to checkout..

. Order details saved in sanity CMS.Order details saved in sanity CMS.

Payment & Tracking

. Stripe processes payment.

. Shipment tracking updates provided.

[Frontend] **[Sanity CMS]** **[Stripe API]**

[Shipment Tracking API]

API Endpoints

Endpoint	Method	purpose	Response Example
/product	GET	Fetches all product details	{"id":1'name':'SUVX'."price":100}
rental duration	POST	saves order details	{"confirmationld":789."satus":'Success'}
/orders	POST	Creates a new order	{"order"123 'status':'Confirmed'
/shipment	GET	Trscks car delivery	{"shipmentld":456."status"'in Transit"}

Sanity
schema Examples

```
export default { name: 'product', type: 'document', title: 'Product', fields: [ {name: 'name', type: 'string', title: 'Name'}, {name: 'type', type: 'string', title: 'Type'}, {name: 'price', type: 'number', title: 'Price'}, {name: 'img', type: 'image', title: 'Image', options: {hotspot: true}}, {name: 'favorite', type: 'boolean', title: 'Favorite'}, {name: 'slug', type: 'slug', title: 'Slug', options: {source: 'name', maxLength: 200}} ] }
```


Thank you