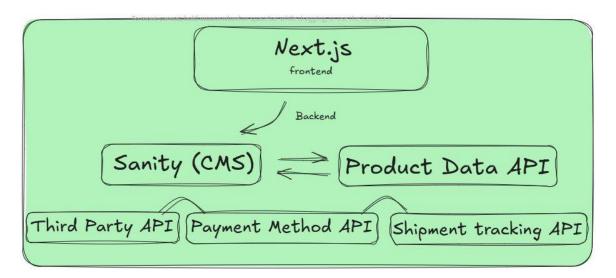
## **HACKATHON:3**

# **Day 2: Planning the Technical Foundation**

#### **Marketplace Technical Overview Foundation**

#### **System Architecture**

Architecture Diagram:



## **Key Workflows**

## User Registration

Users will enters their details  $\rightarrow$  Data sent to Sanity CMS  $\rightarrow$  User profile saved  $\rightarrow$  Confirmation email sent using a third-party service.

## **Product Browsing**

User visits the website → Frontend fetches product data via the Product Data API → Products displayed dynamically.

#### Order Placement

User adds items to the cart  $\rightarrow$  Proceeds to checkout  $\rightarrow$  Order details sent to Sanity CMS  $\rightarrow$  Payment processed via Payment Gateway API  $\rightarrow$  Order confirmation sent.

## **Shipment Tracking**

Shipment updates fetched from Third-Party API  $\rightarrow$  Status displayed to users on their order page.

## **API Requirements**

Endpoint	Method	Purpose	Response Example
/products	GET	Fetch all product details	{"id": 1, "name": "Product A", "price": 100}
/orders	POST	Create a new order	{"orderId": 123, "status": "success"}
/shipment	GET	Fetch shipment status	{"shipmentId": 456, "orderId": 123, "status": "In Transit"}
/payment	POST	Process payment details	{"transactionId": 789, "status": "success", "amount": 500}

### **Sanity Schema Design**

#### **Product Schema:**

```
export default {
 name: 'product',
 type: 'document',
 fields: [
  { name: 'name', type: 'string', title: 'Product Name' },
  { name: 'price', type: 'number', title: 'Price' },
  { name: 'stock', type: 'number', title: 'Stock Level' },
  { name: 'image', type: 'image', title: 'Product Image' },
 ],
};
Order Schema:
export default {
 name: 'order',
 type: 'document',
 fields: [
   { name: 'customerName', type: 'string', title: 'Customer Name' },
  { name: 'productIds', type: 'array', of: [{ type: 'reference', to: [{ type:
'product' }] }] },
  { name: 'totalAmount', type: 'number', title: 'Total Amount' },
  { name: 'status', type: 'string', options: { list: ['Pending', 'Shipped',
'Delivered'] } },
 ],
```

## Prepared by KARIM BUKSH

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GIAIC ROLL NO:00453352 (Sunday 2 to 5 pm)