**Day 02 Of Hackathon**

# Submission Title:

## “Marketplace Technical Foundation --- HomeAura General E-Commerce”

# System Architecture Overview:

## [FrontEnd {Nextjs)]

## [Sanity CMS] ----------------🡪 [Product Data API]

## [Third Party APIs] -------------🡪 [Shipment Tracking API]

## -----------🡪 [payment Gateway]

## Component Description:

## FrontEnd (Next.js):

* User Interface for browsing, purchasing and managing orders.
* Dynamic pages for Home, Product listing , Product Details, Cart , Checkout and Order confirmation.

1. **Sanity CMS:**

* Acts as the backend for products, order and customer data management.
* Customizable schemas to handle various data entities .

## Third Party API:

* Shipment tracking API : fetches real shipment status.
* Payment Gateway: Process secure payments.

# Key Workflows:

## User Registeration:

* User signs up using a form on frontend.
* Data is validated on frontend and sent to sanity.
* Sanity stores the user details.

## Product Browsing:

* User navigates to product listing pages.
* Frontend fetches product data via sanity product API.
* Products are displayed dynamically.

## Order Placement:

* User adds items to cart and proceeds to checkout.
* Checkout details are sent to sanity CMS via API.
* Sanity stores the data and user receive order confirmation.

## Shipment Tracking:

* zuser requests order status.
* Frontend fetches shipment details via third party API.
* Shipment status is displayed to user in real time.

**API Requirements:**

**General E-commerce APIs:**

## Fetch Products:

* Endpoints : /products
* Method: GET
* Description: fetch all available products from sanity.
* Response Example: [

{“id”: 1, “name’: “Product 1”, “price” : 100 , “stock”: 20}

{“id”: 2, “name’: “Product 2”, “price” : 200 , “stock”: 10}

]

## Create an order:

* Endpoints : /order
* Method: POST
* Description:
* Payload Example:

{

“customerInfo”: {

“name”: “Moiz”,

“email”: [Moiz123@gmail.com](mailto:Moiz123@gmail.com)

},

“products”:[

{“id”: 1, “quantity” : 2},

{{“id”: 2, “quantity” : 3}

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“paymentStatus”: “Paid”}

## Shipment Tracking:

* Endpoint: /shipment
* Method: GET
* Response Example: {“shipmentId”: “12345”,
* “orderId”: “98765”,
* “status: “In Proceed”,”expectedDeliveryDate”: “2025-01-20”}



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