Api's

```
"APIs": { "ProductAPI":
{ "endpoint": "/products",
"method": "GET",
"description": "Fetches all product details.",
"interaction": { "from": "Frontend (Next.js)", "to":
"Sanity CMS" } },
"OrderAPI": { "endpoint": "/orders",
"method": "POST",
"description": "Saves new order details.",
"interaction": { "from": "Frontend (Next.js)", "to":
"Sanity CMS" } },
"ShipmentAPI": { "endpoint": "/shipment",
"method": "GET",
"description": "Tracks shipment status.",
"interaction": { "from": "Frontend (Next.js)", "to":
"Shipment Tracking API" } },
"PaymentAPI": { "endpoint": "/payment",
"method": "POST",
"description": "Processes payment transactions.",
"interaction": { "from": "Frontend (Next.js)", "to":
"Payment Gateway" } } }
```

Workflow Examples

Product Browsing Workflow:

- 1. User requests product data on the frontend.
- 2. Frontend fetches data via Sanity CMS API.
- 3. Product details are displayed dynamically.

Order Placement Workflow:

- 1. User adds items to the cart and proceeds to checkout.
- 2. Frontend sends order data to Sanity CMS API.
- 3. Payment is processed via Payment Gateway API.
- 4. Confirmation is displayed and recorded.

Shipment Tracking Workflow:

- 1. User queries shipment status on the frontend.
- 2. Frontend sends a request to the Shipment Tracking API.
- 3. Real-time tracking info is displayed.

Detailed System Architecture

User Interaction:

- Browses products on the Frontend (Next.js).
- Adds items to the cart and places an order.
- Tracks shipment status and processes payment.

Frontend (Next.js):

- Communicates with Sanity CMS to fetch product details and submit order data.
- Sends requests to Third-Party APIs for shipment tracking and payment processing.
- Displays responses dynamically to the user.

Sanity CMS:

- Manages:
- Product Data: Name, price, stock, images.
- Order Records: Customer info, product details, payment status.
- Provides APIs:
- GET /products: Fetch product details.
- POST /orders: Save new orders.

Third-Party APIs:

- Shipment Tracking API:
- Provides real-time shipment updates via GET / shipment.
- Example Response: {"orderId":123, "status":"In Transit", "ETA":"15 mins"}.
- Payment Gateway API:
- Handles payment transactions via POST / payment.
- Example Payload: {"amount":100, "currency":"USD", "orderId":123}.
- Example Response:
- {"paymentStatus":"Success",
 "transactionId":"XYZ123"}.

