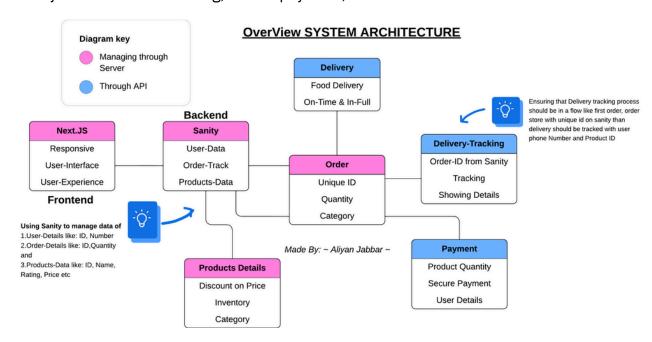
## **Technical Documentation: Q-Commerce System**

## **Overview of System Architecture**

The system architecture integrates Next.js for frontend operations, Sanity for backend data management, and APIs for order, delivery, and payment processing. The system ensures food delivery efficiency with real-time tracking, secure payment, and data-driven workflows.



## **Key Features**

#### 1. Frontend (Next.js):

- Responsive UI for customers to place orders.
- Focus on user experience and interface.

#### 2. Backend (Sanity):

- Data Management:
- User Data: Stores customer details (ID, contact info).
- Order Data: Includes unique IDs, quantities, and categories.
- Product Data: Details such as name, price, rating, and inventory.

### 3. Delivery Tracking:

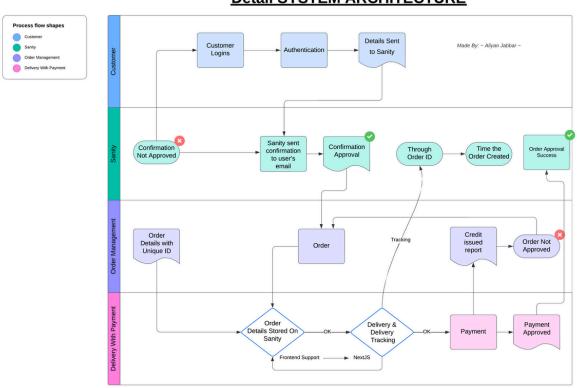
- Tracks orders via unique IDs.
- Ensures seamless delivery updates based on order and product details.

### 4. Payment System:

- Manages secure payments.
- Links order details with payment status.

## **Detailed System Architecture**

#### **Detail SYSTEM ARCHITECTURE**



#### 1. User Authentication:

- Customers log in and authenticate.
- Details are sent to Sanity for validation.
- Confirmation email sent to the customer upon approval.

#### 2. Order Creation:

- Approved orders are assigned unique IDs.
- Order details are stored on Sanity.

### 3. Delivery Tracking:

- Links order and product details to track real-time progress.
- Customers receive delivery updates through APIs.

#### 4. Payment Processing:

- Handles secure transactions.
- Sends confirmation on successful payment approval.

## **API Endpoints**

#### 1. User Authentication

- Endpoint: /authenticate

- Method: POST

}

- Description: Authenticate users and create sessions.

```
- Response Example: {
    "userId": "12345",
    "status": "Authenticated",
    "token": "abcdef"
```

#### 2. Fetch Product Details

```
- Endpoint: /products
- Method: GET
- Description: Retrieve all product details from Sanity.
- Response Example: {
 "id": 1,
"name": "Product A",
"price": 100,
"stock": 25,
"rating": 4.5
}
3. Create Order
- Endpoint: /orders
- Method: POST
- Description: Create new orders and store them in Sanity.
- Response Example: {
"orderId": "67890",
"status": "Success",
"details": {
"quantity": 2,
"category": "Food"
 }
}
```

```
4. Track Delivery - Endpoint: /delivery-tracking
- Method: GET
- Description: Fetch real-time delivery tracking details.
- Response Example: {
    "orderId": "67890",
    "status": "In Transit",
    "ETA": "15 mins"
}
```

### **5. Payment Processing**

}

```
- Endpoint: /payments
- Method: POST
- Description: Process secure payments for an order.
- Response Example: {
    "paymentId": "abc123",
    "status": "Success",
    "orderId": "67890"
```

# **Sanity Schema**

Data Schema Done 15-1-25
Basic Linkago
- Alivan Takkar
Basic Linkage:-  Product (Food) - Onder -
Delinery - Tracking
Delivery Tracking
Delivery Zone - Payment
Product {
-ID Aliyam Jabbar
- Description
- Retail Price
- Discounted Price
- Stock - Tags - [Categories - Amount]
- Rating
- Reviews
Order }
- Order 30 - Muyan Jabbar
- Product 1D
- Guantily
SignatureNo

Date 15-1-25 - Delivery driver details ate - Time Signature DE