Hackathon Day 1

Step 1, Market Place Type: Q-Commerce

Primary Purpose:

Q-commerce (Quick Commerce) is a business model that focuses on **ultra-fast deliveries**, typically within minutes or hours, for products ordered online. When applied to a **marketplace**, Q-commerce connects multiple sellers with customers through a centralized platform, ensuring rapid fulfillment of orders.

Key Objectives:

1. **Speed & Convenience**: Delivering products faster than traditional e-commerce models.

2. **Localized Fulfillment**: Leveraging nearby warehouses, dark stores, and retail partners.

3. **Diverse Product Range**: Offering groceries, essentials, user electronics and more.

4. **Technology-Driven Operations**: Real-time inventory tracking, and last-mile delivery solutions.

5. **Customer Satisfaction & Retention**: Enhancing user experience with instant gratification.

Step 2, Business Goals:

1. What problem does your marketplace aim to solve?

Our marketplace addresses the **need for ultra-fast delivery of essential products**, ensuring customers receive items within minutes. Traditional e-commerce platforms often take **hours or days**, leading to inconvenience, especially for urgent needs like groceries, medicines, and household essentials.

2. Who is your target audience?

- **Urban consumers** who prioritize speed and convenience.

- **Busy professionals** needing quick access to essentials.

- **Students and young adults** looking for instant solutions.

- **Elderly individuals** who may struggle to visit physical stores.

- **Small businesses** requiring fast restocking of supplies.

3. What products or services will you offer?

- **Groceries & Fresh Produce** (fruits, vegetables, dairy, meat, beverages).

- **Household Essentials** (cleaning supplies, personal care items, baby products).

- **Electronics & Accessories** (chargers, headphones, smart gadgets).

- **Pet Supplies** (food, grooming items).

4. What will set your marketplace apart?

Ultra-Fast Delivery: Orders delivered within **10–30 minutes**.
Hyper-Local Fulfillment: Dark stores & micro-warehouses for optimized logistics.
Wide Product Selection: More than just groceries, covering daily essentials.
Seamless App Experience: User-friendly, with real-time tracking.
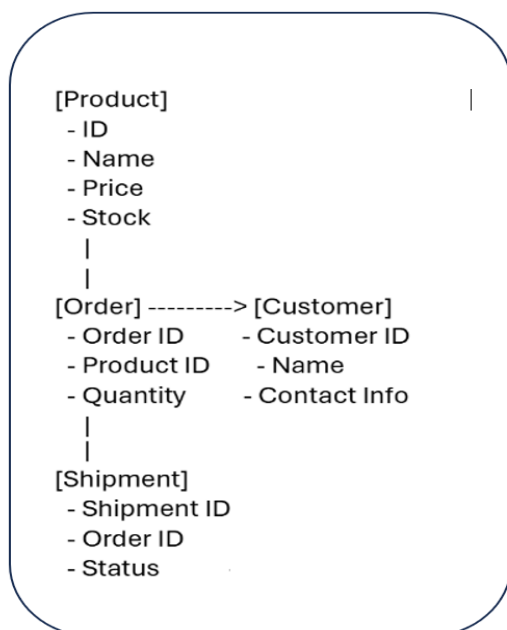**Subscription & Loyalty Programs**: Discounts for frequent users.

Step 3, Data Schema:

1: Entities in Market place:

- Products
- Orders
- Customer
- Shipment

2: Diagram For Relation between entities:

```
[Product]                          |
 - ID
 - Name
 - Price
 - Stock
   |
   |
[Order] ---------> [Customer]
 - Order ID        - Customer ID
 - Product ID      - Name
 - Quantity        - Contact Info
   |
   |
[Shipment]
 - Shipment ID
 - Order ID
 - Status
```

3: Feilds for Each entity

Products

- Product ID
- name
- description

- price
- Stock quantity
- Category

Orders

- Order ID (Primary Key)
- User ID (Foreign Key)
- Order Status (Pending, Shipped, Delivered)
- Total price
- Payment
- Date and time of order placement.

Customer:

- Customer ID (Primary Key)
- name
- email
- phone number
- address

Shipment:

- Shipment ID
- Order ID
- Current status
- Delivery Date: Expected or actual delivery date.

4: Made A Simple Schema

5: ☑ Tested the Schema