

15/01/25 Hackathon 3 (Day 1)

Marketplace Builders - Hackathon 2025
"Laying the foundation for your Marketplace Journey"

- * Step 1: Choose your Marketplace Type
 - Marketplace Type: Q-Commerce
 - Primary Purpose: To provide quick food delivery services, connecting local restaurants with customers.
- * Step 2: Define Your Business Goals
 - 1) Problem to Solve: Reduce delays in food delivery and offer a wide variety of meal options at the customer's fingertips.
 - 2) Target Audience: Busy professionals, students and families seeking convenient and fast meal delivery.

3) Products/Services:

- Diverse Cuisine Options: Offer meals from partner restaurants across various cuisines like: Chinese, Italian, Fast Food, and more.
- Promotions and discounts: Highlight special deals, discounts, and promotional offers to attract customers.
- Fast Delivery and Order Tracking: Provide quick delivery with real-time order tracking for a seamless experience.
- Dietary Preferences and Customization: Include options for dietary needs (vegan, halal, etc.) and meal customization based on customer preferences.

4) What Sets It Apart: Lightning-fast delivery, user-friendly app/website, live tracking, and exclusive discounts.

* Step 3 : Creating a Data Schema

• Entities :

1) Products : Represents food items from restaurants.

- Product_ID (Primary key)
- Product_Name
- Description
- Price
- Category
- Restaurant_ID (Foreign key referencing restaurant)
- Availability (e.g: Available / Out of stock)

2) Orders : Contains details of customer orders.

- Order_ID (primary key)
- Customer_ID (Foreign key referencing customers)
- Order_Date
- Total_Amount

- Order_Status (e.g. Pending, Delivered, Cancelled)
- Delivery_Zone_ID (Foreign key referencing Delivery_Zones)

3) Customers: Stores information about users placing orders.

- Customer_ID (Primary Key)
- Customer_Name
- Email
- Phone
- Address
- Registration_Date

4) Delivery_Zones: Represents service areas and associated delivery personnel.

- Delivery_Zone_ID (primary key)
- Zone_Name
- Coverage_Area (e.g. City or locality names)
- Delivery_Personnel_ID (Foreign key referencing Delivery_Personnel)

5) Shipment: Manages order delivery and shipment details.

- Shipment_ID (primary key)
- Order_ID (foreign key referencing Orders)
- Delivery_Personnel_ID (foreign key referencing Delivery Personnel)
- Shipment_Status (e.g.: inTransit, Delivered, Failed)
- Delivery_Date
- Estimated_Delivery_Time

6) Delivery_Personnel: Tracks delivery staff details.

- Delivery_Personnel_ID (primary key)
- Delivery_Boy_Name
- Phone
- Vehicle_Number
- Availability_Status

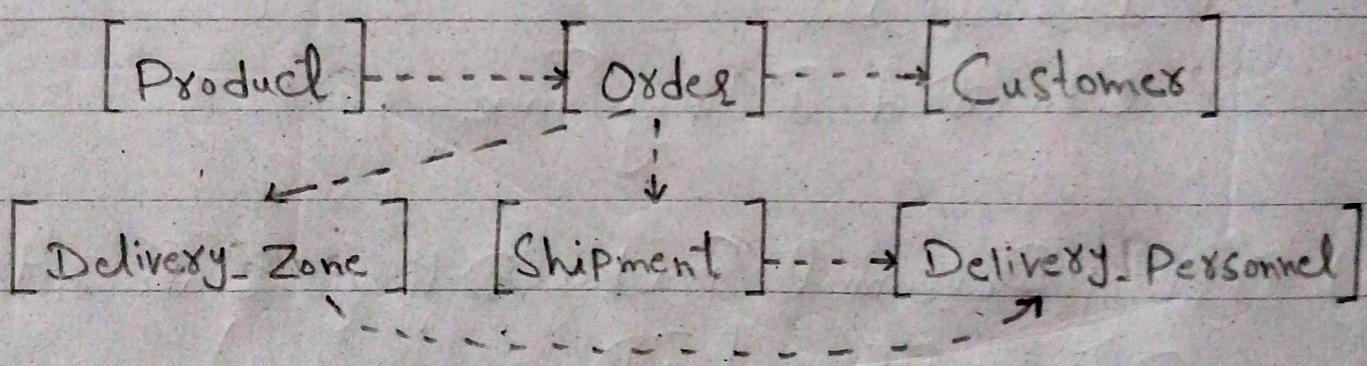
• Relationships:

- Products → Orders (Many-to-Many)

page : 05

- Orders → Customers (One-to-Many)
- Orders → Delivery_Zones (One-to-Many)
- Orders → Shipment (One-to-One)
- Delivery_Zones → Delivery_Personnel (One-to-Many)
- Shipment → Delivery_Personnel (One-to-Many)

* Schema Diagram with Entities and Relationships



• Prepared by : Mahnoor M.Ayub