# **Hackathon Day 1: General E-Commerce Marketplace Task**

# **Step 1: Choose Your Marketplace Type**

**Marketplace Type: General E-Commerce** 

### **Primary Purpose:**

To provide a platform where customers can browse and purchase a variety of products online, ensuring convenience, affordability, and a seamless shopping experience.

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## **Step 2: Define Your Business Goals**

### 1. The Problem Your Marketplace Aim To Solve:

- Provide an easy, reliable, and fast way for customers to shop online for various products without visiting physical stores.
  - Address the lack of diverse product availability and streamline delivery services.

### 2. Target Audience:

- Age group: 18-45 years old
- Urban and semi-urban customers who prefer online shopping
- Busy professionals, students, and homemakers

#### 3. Products And Services Offered:

- Categories: Electronics, Cloths, Home Essentials, and more.
- Additional Services: Discounts, cashback offers, and fast delivery options.

## 4. What Sets Your Marketplace Apart:

- Competitive pricing
- A wide range of products in one place
- Personalized recommendations using AI
- Same-day delivery options

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# Step 3: Create a Data Schema

### **Entities Identified:**

- 1. Products: All the items available for sale
- 2. Orders: Tracks customer purchases
- 3. Customers: Information about buyers
- 4. Delivery Zones: Defines areas for delivery coverage
- 5. Payment Details: Tracks transactions

# **Relationships Between Entities:**

Below is the data schema design:

### **Diagram Description:**

- 1. Products
- ID
- Name
- Price
- Stock

#### 2. Orders

- Order ID

- Customer ID
- Product IDs (can be multiple)
- Quantity
- Order Status

#### 3. Customers

- Customer ID
- Name
- Email
- Contact Number

### 4. Delivery Zones

- Zone Name
- Coverage Area
- Assigned Drivers

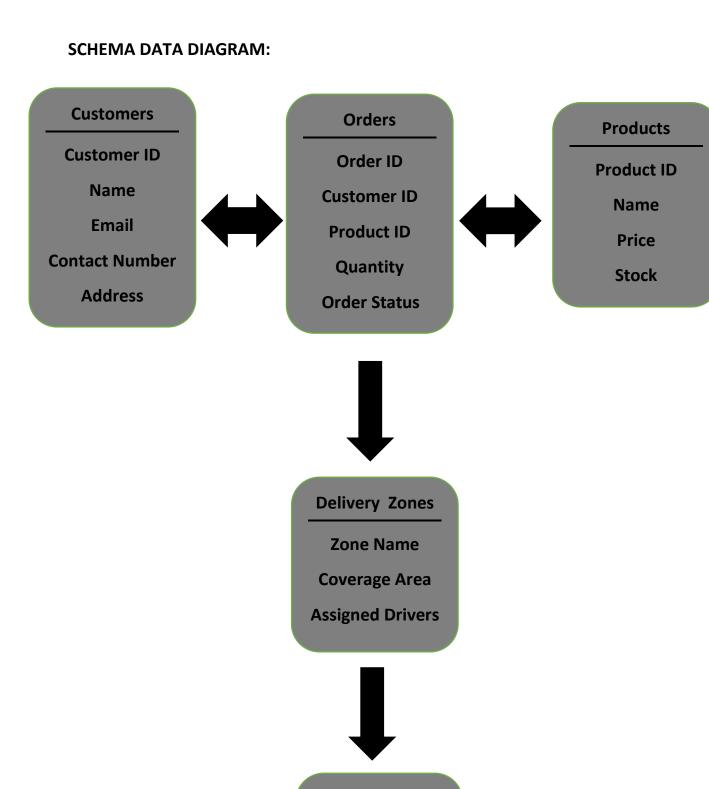
#### 5. Payment Details

- Payment ID
- Order ID
- Amount Paid
- Payment Status

### Here's how these entities relate:

- Customers place orders (Order → Customer).
- Orders include products (Order  $\rightarrow$  Product).
- Orders are delivered within delivery zones (Order  $\rightarrow$  Delivery Zone).
- Payments are linked to orders (Order → Payment Details).

I will create a visual diagram of this schema if needed.



**Payment Details** 

**Payment ID** 

**Order ID** 

**Amount Paid** 

**Payment Status**