

# 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 → Product).
- Orders are delivered within delivery zones (Order → Delivery Zone).
- Payments are linked to orders (Order → Payment Details).

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

## SCHEMA DATA DIAGRAM:

