Day 1 : TASK

Step 1: Choose Your Marketplace Type

Choice: General E-Commerce

Primary Purpose:

The marketplace will serve as a platform where customers can purchase a wide variety of products, such as electronics, clothing, groceries, and more. It aims to provide convenience, affordability, and access to products in one place, catering to diverse customer needs.

Step 2: Define Your Business Goals

1. **What problem does your marketplace aim to solve?**
   It addresses the lack of convenient access to quality products, especially for people in underserved areas or those looking for competitive pricing and a diverse product range.
2. **Who is your target audience?**
   - **Primary Audience:** Individual shoppers, especially in small towns or rural areas.
   - **Secondary Audience:** Small businesses seeking affordable and reliable suppliers.
3. **What products or services will you offer?**
   - Products: Electronics, clothing, household items, groceries, and beauty products.
   - Example: Similar to platforms like Amazon or Daraz, offering a wide range of everyday products.
4. **What will set your marketplace apart?**
   - **Affordability:** Competitive pricing with discounts and offers.
   - **Speed:** Reliable delivery within 2-3 days.
   - **Convenience:** A user-friendly platform with multiple payment options and easy navigation.

Step 3: Create a Data Schema

1: Entities in the Marketplace:

- **Products:** Items for sale.
- **Orders:** Transactions between customers and the marketplace.
- **Customers:** Buyers using the platform.
- **Delivery Zones:** Areas where delivery services are available.
- **Shipments:** Tracking of orders.
- **Payments:** Records of customer transactions.

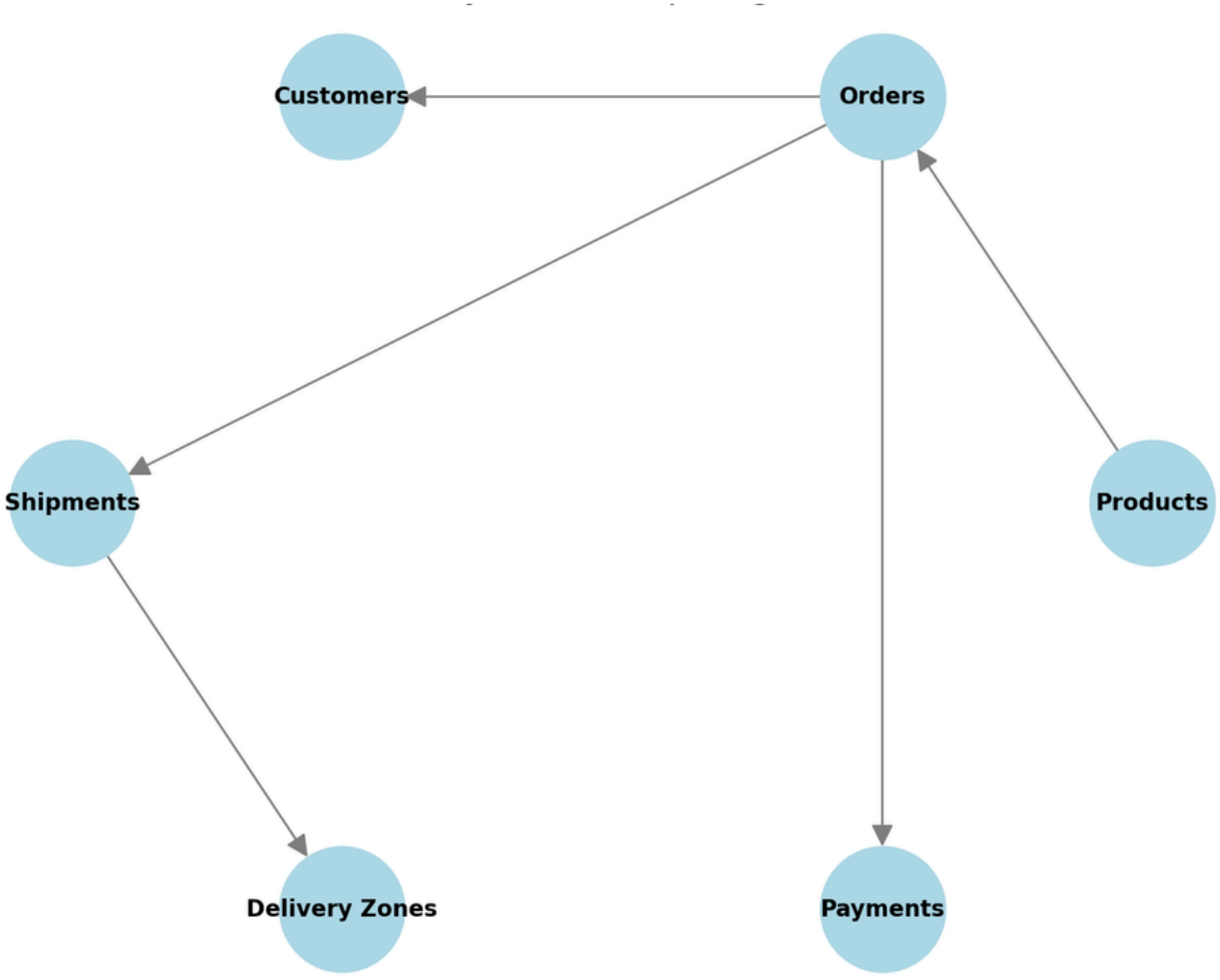
Relationships Between Entities:

- Products are linked to orders.
- Orders are associated with customers.
- Shipments are linked to delivery zones for logistics.

Key Fields for Each Entity:

- **Products:**
  - ID, Name, Price, Stock, Category.
- **Orders:**
  - Order ID, Customer Info, Product Details, Status, Timestamp.
- **Customers:**
  - Customer ID, Name, Contact Info, Address, Order History.
- **Delivery Zones:**
  - Zone Name, Coverage Area, Assigned Drivers.
- **Shipment:**
  - Shipment ID, Order ID, Status, Delivery Date.

2: Draw Relationships Between Entities:



3. Focus on Key Fields for Each Entity:

Products Entity:

- **ID:** Unique identifier for each product (e.g., 001, P123).
- **Name:** Name of the product (e.g., "Smartphone X10").
- **Price:** Cost per unit of the product (e.g., $299).
- **Stock:** Quantity available (e.g., 50 units).
- **Category:** Product classification (e.g., Electronics, Clothing).
- **Tags:** Search keywords (e.g., "New Arrival," "Discounted")

Orders Entity:

- **Order ID:** Unique identifier for each order (e.g., O12345).
- **Customer Info:** Name, contact details, and address of the customer.
- **Product Details:** List of products, their quantities, and prices.
- **Status:** Current order status (e.g., Pending, Shipped, Delivered).
- **Timestamp:** Date and time the order was placed.

Customers Entity:

- **Customer ID:** Unique identifier for each customer (e.g., C56789).
- **Name:** Full name of the customer.
- **Contact Info:** Phone number and email address.
- **Address:** Delivery address.
- **Order History:** A list of past orders placed by the customer.

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