16/01/2025

Hackathon 3 (Day 1)

Marketplace_ Builder_ Hackathon_ 2025

Step 1: Choose your Marketplace Type

Marketplace : General E-commerce

Primary Purpose:

To provide a platform for selling sustainable, eco-friendly furniture to environmentally conscious customers, reducing carbon footprints.

Step 2: Define your Business Goals

Q. what problem does your marketplace aim to solve?

. Promote sustainable living by offering eco-friendly furniture as an alternative to conventional furniture that harms the environment.

Q. Who is your Target audience?

- Environmentally conscious individuals, families and businesses looking for sustainable furniture solutions.

Q. What Products or services will you offer?

- Eco - friendly furniture (e.g, chairs, tables, etc.).
- Customization options using sustainable materials.
- Delivery and assembly services.

Q. what will set your marketplace apart?

Focus on:
- Sustainability and eco - friendly materials.
- Unique, customizable designs.
- Affordable pricing with high quality.

Step 3: Creating a data schema

. Entities :

1) Products :
   - Product ID (Primary key)
   - Product Name
   - Material
   - Price
   - Stock

2) Orders :
   - Order ID (primary key)
   - Customer ID (foreign key)
   - Product ID (foreign key)
   - Quantity
   - Order Status (e.g, Pending, completed, canceled)

3) Customers:
   - Customer ID (primary key)
   - Customer Name
   - Contact Info
   - Address

4) Delivery Zones:
- Zone Name (primary key)
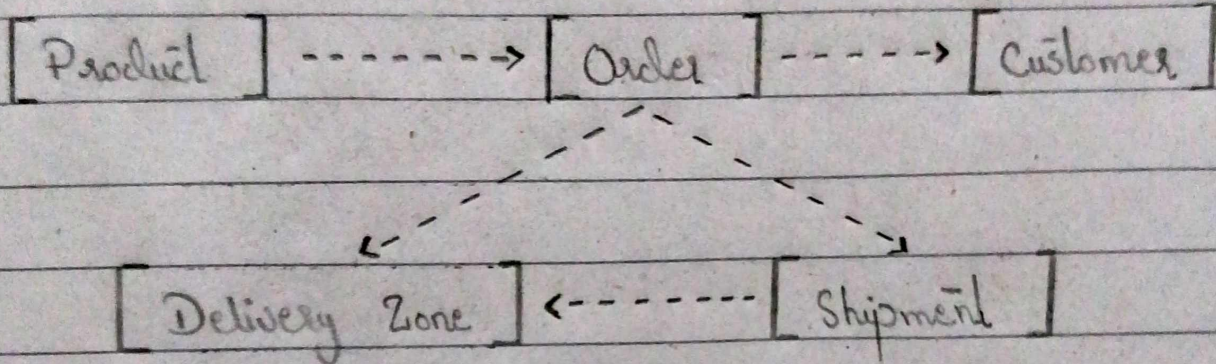- Coverage area
- Delivery Time

5) Shipments:
- Shipment ID (primary key)
- Order ID (Foreign key)
- Delivery Zone (Foreign key)
- Shipment Status (e.g, In Transit, Delivered, Returned)
- Tracking Number
- Estimated Delivery Date

6) Relationships:

- Products → Orders (via Product ID)
- Orders → Customers (via Customer ID)
- Orders → Delivery Zones (via Zone Name)
- Orders → Shipments (via Product ID)
- Shipments → Delivery Zones (via Zone Name)

Schema Diagram with Entities & Relationships

[Product] - - - - - - -> [Order] - - - - - -> [Customer]

[Delivery Zone] <- - - - - - - - [Shipment]

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