Day 1 Hackathon Report: Laying The Foundation Of MarketPlace 🚀

Step 1: Choose Your Marketplace Type

Chosen Marketplace Type: General E-Commerce

Primary Purpose: Comforty aims to solve the challenge of finding high-quality, stylish, and affordable furniture in one place. The platform eliminates the need to visit multiple stores by offering a one-stop online solution for furniture shopping.

Step 2: Define Your Business Goals

Problem Statement:

Comforty addresses the difficulty customers face in accessing durable and stylish furniture without the hassle of physical store visits.

Target Audience:

- **Homeowners:** Seeking customizable and stylish furniture options for personal spaces.
- **Office Managers:** Looking to create ergonomic and functional workspaces.
- **Interior Designers:** Needing high-quality furniture for their clients.

Products and Services Offered:

- Arm Chairs
- Desk Chairs
- Wing Chairs
- Wooden Chairs
- Park Benches
- Sofas

Unique Selling Points:

- **Customization:** Options for tailored furniture materials and designs.
- **Affordability:** Competitive pricing strategies with frequent discounts.
- **Seamless Navigation:** Intuitive user interface with advanced search and filtering features.

Step 3: Create a Data Schema

Identified Entities:

1. **Products:** Items available for sale.
2. **Orders:** Records of transactions.
3. **Customers:** Individuals or businesses making purchases.
4. **Delivery Zones:** Areas serviced by the platform.
5. **Shipments:** Tracking logistics and delivery of orders.

Relationships Between Entities:

Products → Linked to **Orders** → Associated with **Customers**

Orders → Connected to **Shipments** → Managed within **Delivery Zones**

Example Diagram:

```
[Product]
  - ID
  - Name
  - Price
  - Stock
    |
    |
[Order] ---------> [Customer]
  - Order ID        - Customer ID
  - Product ID      - Name
  - Quantity        - Contact Info
```

```
   |

   |
```

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

  - Shipment ID   - Zone Name

  - Order ID   - Coverage Area

  - Status   - Assigned Driver

Key Fields for Each Entity:

Products:

- ID: Unique identifier for each product.
- Name: Name of the product.
- Price: Cost per unit.
- Stock: Quantity available.
- Category: Classification (e.g., Chairs, Sofas).
- Tags: Keywords for search (e.g., "Ergonomic", "Wooden").

Orders:

- Order ID: Unique identifier.
- Customer Info: Name, contact details, and address.
- Product Details: List of products, quantities, and prices.
- Status: Order status (e.g., Pending, Shipped, Delivered).
- Timestamp: Date and time of order placement.

Customers:

- Customer ID: Unique identifier.
- Name: Full name.
- Contact Info: Phone number and email.
- Address: Delivery location.
- Order History: Past orders.

Delivery Zones:

- Zone Name: Identifier for the delivery area.
- Coverage Area: Cities or postal codes served.
- Assigned Drivers: Courier details.

Shipments:

- Shipment ID: Unique identifier.
- Order ID: Linked order.
- Status: Current status (e.g., In Transit, Delivered).
- Delivery Date: Expected or actual delivery date.

Testing the Schema:

- Validate if it supports operations like inventory management, order tracking, and customer engagement.
- Ensure alignment with Comforty's business goals.