

## **HACKATHON DAY 01:**

### **LAYING THE FOUNDATION FOR OUR MARKETPLACE JOURNEY**

#### **Marketplace Type: General eCommerce (Furniture Store):**

##### **Primary Purpose:**

Our **furniture eCommerce marketplace** is designed to provide a seamless online shopping experience for customers looking to buy furniture for homes, offices, and commercial spaces. The platform will offer a wide range of furniture items from different manufacturers and sellers, ensuring affordability, variety, and convenience.

##### **Key Business Objectives:**

1. **Wide Product Range:** Offer diverse furniture collections, including home, office, and outdoor furniture.
2. **Seamless Shopping Experience:** Provide an intuitive UI/UX for easy browsing, selection, and purchase.
3. **Secure Payment Integration:** Support multiple payment methods, ensuring safe transactions.
4. **Logistics & Delivery Optimization:** Partner with reliable delivery services for timely and safe deliveries.
5. **Customer Reviews & Ratings:** Enable transparency through customer feedback and product ratings.

#### **1. What Problem Does Our Marketplace Aim to Solve?**

Traditional furniture shopping is often **time-consuming, expensive, and inconvenient**. Customers struggle with:

- **Limited variety:** Local stores don't always have what they need.
- **High costs:** Custom or premium furniture is often overpriced.
- **Uncertainty about fit:** Customers can't easily visualize furniture in their space.
- **Long delivery times:** Many furniture stores take weeks to deliver.

## Our Solution:

We are creating a **smart furniture eCommerce platform** that combines **AI recommendations, AR visualization, and express delivery** to make buying furniture easier, faster, and more personalized.

## 2. Who is Our Target Audience?

Our marketplace caters to:

- **Urban homeowners & renters** looking for stylish and functional furniture.
- **Young professionals & remote workers** in need of home office setups.
- **Interior designers & decorators** seeking custom or bulk furniture.
- **Eco-conscious buyers** interested in sustainable furniture options.
- **Small businesses & startups** looking for affordable office furniture.

## 3. What Products or Services Will We Offer?







We will offer a wide range of **furniture and related services**, including:

- ✓ **Home Furniture** (Sofas, Beds, Dining Tables, Storage)
- ✓ **Office Furniture** (Desks, Chairs, Conference Tables)
- ✓ **Custom Furniture Orders** (Customers can request tailor-made pieces)
- ✓ **Augmented Reality (AR) Try-Before-You-Buy Feature**
- ✓ **Sustainable & Eco-Friendly Furniture**

- ✓ **Fast Delivery & Assembly Services**
- ✓ **Smart Room Planning Tool** to help customers choose the right sizes

## 4. What Will Set Our Marketplace Apart?

Our platform stands out through:

-  **AI-Powered Personalization** – Smart recommendations based on style preferences
-  **Augmented Reality (AR) Tryout** – See furniture in your space before buying
-  **Sustainable & Eco-Friendly Section** – Verified sellers offering green products
-  **Fast Delivery & Assembly** – Express delivery in 24-48 hours
-  **Custom Furniture Requests** – Direct marketplace for personalized designs
-  **Smart Size & Space Guide** – Helps customers choose the right furniture size

## Data Schema for Furniture eCommerce Marketplace

### Entities and Attributes

#### 1. Products

Represents the furniture items available for sale.

##### Attributes:

- id (Unique Identifier)
- name (e.g., Sofa, Office Chair, Dining Table)
- category (e.g., Living Room, Office, Outdoor)
- description
- price
- stock\_quantity (Tracks available inventory)
- material (e.g., Wood, Metal, Fabric)

- dimensions (Height, Width, Depth)
- color\_options (Available color variations)
- customizable (Boolean: True/False)
- rating (Average customer rating)
- images (URLs for product images)
- seller\_id (Link to the vendor selling the product)

## 2. Orders

Tracks customer purchases.

### Attributes:

- id (Unique Identifier)
- customer\_id (Link to the customer who placed the order)
- order\_date
- total\_price
- payment\_status (Pending, Paid, Failed)
- order\_status (Processing, Shipped, Delivered, Cancelled)
- shipment\_id (Link to shipment tracking details)
- delivery\_zone\_id (For delivery location and charges)

## 3. Customers

Represents marketplace users.

### Attributes:

- id (Unique Identifier)
- name

- email
- phone\_number
- address (Shipping address)
- role (Buyer/Seller)
- profile\_picture
- saved\_payment\_methods
- wishlist (List of saved product IDs)
- purchase\_history

#### **4. Delivery Zone**

Defines the regions where delivery services are available.

**Attributes:**

- id (Unique Identifier)
- zone\_name
- postal\_codes (List of supported postal codes)
- delivery\_fee
- estimated\_delivery\_time

#### **5. Shipment**

Manages product deliveries.

**Attributes:**

- id (Unique Identifier)
- order\_id (Link to the order)
- shipment\_status (Pending, In Transit, Delivered, Returned)

- pickup\_date
- delivery\_date
- tracking\_number
- delivery\_person\_id (Assigned delivery personnel)

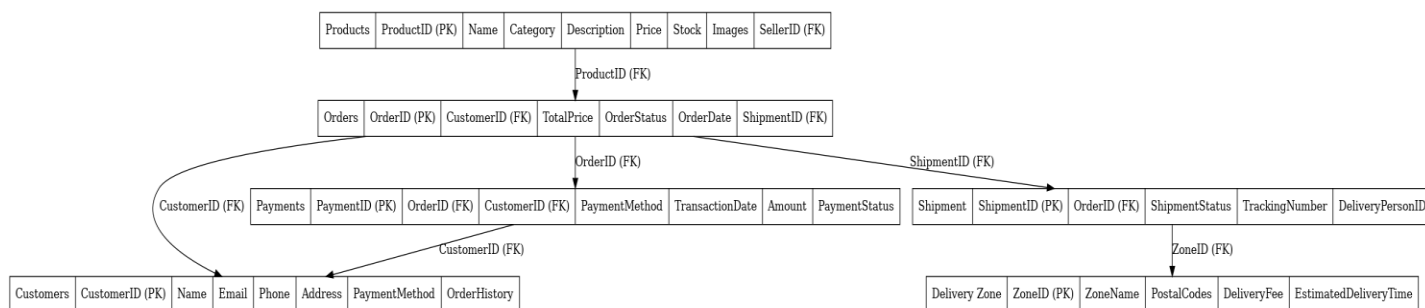
## 6. Payments

Handles payment transactions within the marketplace.

### Attributes:

- id (Unique Identifier)
- order\_id (Link to the order)
- customer\_id
- payment\_method (Credit Card, PayPal, Crypto Wallet)
- payment\_status (Pending, Completed, Failed)
- transaction\_date
- amount

## Entity Relationship Diagram For Furniture Ecommerce Marketplace:



**“FIRST DAY ENDS HERE THANK YOU”**