

# HACKATHON # 03

## Day: 1

### Step 1: Business Overview

- Marketplace Focus: Furniture (Tables, chairs, Beds, sofas, etc.)

- Purpose: To provide a platform where customers can explore, customize, and purchase furniture conveniently.

- Target Audience:

- Homeowners looking for stylish and functional furniture
- Interior designers and decorators
- Small business or offices setting up workspaces.

- Product and Services:

Product: Tables, Chairs, Beds, Sofas, Storage Units, Desks  
Services: Home delivery, Assembly services, Customization options (e.g., size, material, color), Furniture maintenance tips and services

- Unique Selling Points:

- Customization of furniture
- Affordable pricing with discounts
- Easy navigation and personalized recommendation.



- Fast delivery and hassle-free assembly

## Step 2: Data Schema

The primary entities and relationships for your furniture market place:

### 1. Products

- Product ID: Unique identifier
- Name: Product name (e.g., "Wooden Dining Table")
- Category: Type of furniture (e.g., Tables, Sofas, etc.)
- Material: Wood, Metal, Plastic, etc.
- Dimensions: Length, width, height
- Price: Price of the product
- Customization Options: Available customizations (e.g., Colors, size)
- Stock: Quantity available
- Seller ID: Reference to the Seller

### 2. Customers

- Customer ID: Unique identifier
- Name: Customer's name
- Email: Contact email
- Address: Shipping address
- Phone: Contact number
- Order History: Past purchases



• Wishlist: Items saved for later.

- Order ID: Unique identifier
- Customer ID: Reference to the customer
- Product IDs: Products included in the order
- Order Date: Date of order placement
- Total Price: Final amount after discounts
- Status: Pending, Shipped, Delivered, etc.
- Delivery Address: Shipping location
- Assembly Required: Yes / No

#### 4- Sellers

- Seller ID: Unique identifier
- Name: Name of the seller or business
- Contact Info: Email, phone number
- Products Listed: Reference to the products they offer

#### 5- Customization Options

- Option ID: Unique identifier
- Product ID: Reference to the product
- Attribute: Attribute being customized (e.g. color, size)
- Available Choices: List of options

#### 6- Delivery Zones

- Zone ID: Unique identifier



- Zone Name : Name of the area (City, Region)
- Delivery Charges: Cost of delivery
- Estimated Time: Delivery timeline for the area

### Step 3: Flow Diagram

Here's how the system flows, starting from the user accessing the website to purchasing furniture:

#### 1. Home Page:

- Display product categories, trending furniture, and discounts.
- Search and filter options

#### 2. Product Page

- Detailed product information, customization options, and reviews.

#### 3. Cart:

- Add items to the cart with options for customization.
- Display subtotal, shipping charges, and final price.

#### 4. Checkout:

- Collect customer details (address, contact).
- Payment gateway integration.
- Confirm order.



## Order Fulfillment:

- Notify seller about the order
- Seller prepares and ships the product
- Delivery team handles shipping and assembly (if required)





