

Hackathon Day-1 Task

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Step 01: Market place type:

type: General E-COMMERCE.

Primary Purpose: Sell customizable and ready-made furniture to Urban households, offices, and event planner in Our Country Pakistan.

Benifits

Wider Range / Reach
Brand-authority
Customer-Trust
Scalability

Focused

Customer Variety
Scalable Growth
Trust Building
Cost Efficiency

Step 02: Business Goals

Aim to solve:-

- Limited choices: Offering a wide Variety of furniture
- Accessibility issues: Provides easy online access to furniture, and
- Lack of Variety: Provide diverse furniture Option in one place
- Delivery challenges: Ensure smooth logistics delivery & return Policies.

Target audience:

- Luxury Buyers: High-end, Customized furniture lover
- Eco-Conscious: Sustainable and eco-friendly furniture-seekers
- Young Millennials: Compact, modern, space-saving designs.
- Businesses: Office furniture to startup and corporates.

Product & services I offer:

Product :

Services :

1	Residential Furniture	Free Delivery Setup
2	Office Furniture	Furniture Customization
3	Custom Furniture	Installation Services
4	Home Décor	Return and exchange Policy
5	Outdoor Furniture	Online Consultation

Unique selling Point of My furniture Market Place:

- 1 Affordability: Competitive Pricing and discount
- 2 Customization: Tailored furniture design
- 3 Speed: Fast delivery and order processing
- 4 Quality: Premium and durable products.
- 5 Customer Support: 24/7 assistance and easy returns.

Step 03: focus on key fields for each entity

Products:

ID

Name

Price

Stock, category, tags

Orders:

Order ID, customer info, (Name, contact, Address) Product Details (list of Products), Status, Time stamp

Customers:

Customer ID, Name, Contact Info, Address, Order history

Delivery Zones:

Zone Name, Coverage Area (Postal code or cities), Assigned Drivers.

Explanation of the schema

Product:

Added fields for customization option sustainability score, and manufacture, include Array for material and unique

Product Variant:

Allows for different variation of product
(eg. color size)

Category:

Hierarchical structure for organizing product

Manufacturer:

Information about furniture suppliers.

Customer:

expanded to include more detailed information & multiple addresses

Order and Order-Item

Enhanced with additional fields for a more comprehensive order

Reviews:

Allow customers to leave product reviews and returns

Delivery Zone & Delivery:

More detailed delivery menu - gemant
System

Driver:

Information about delivery personal, including
Skill

Promotion

Manages discount and pre-motional offers.

Relation Between Entities:

A customer: Can place multiple Offers (one-to-many)

An Order: Contain multiple Order-Items

A - Product: Can be included in multiple Order-Item

A Delivery Zone: Covers multiple Delivery

A Driver: Can be assigned to multiple deliveries

Data Schema

Product	
String	ID
String	Name
String	Category
Number	Base-Price
String	Description
String	Material
Number	Ordinary-Stock
String	Image

Customer	
String	First-Name
String	Last-Name
String	Email
Num	Phone
String	Shipping Address
String	Billing Process
String	Billing-Address
Num	Registration Date

Product-Variety	
String	ID
String	Product-ID
Num	Price
Num	Stock

Category	
String	ID
String	Name
String	Parent

Manufacture	
String	ID
String	Name
String	Description
Num	Rating

Review	
String	ID
String	Product-ID
String	Customer-ID
Num	Rating
String	Comment
Date	Review Date
Num	Helpful
	Vote

Order	
String	ID
String	Customer-ID
Date	Order-Date
Num	Total-Amount
String	Status
String	Payment Method
String	Shipment-Address
String	Billing address

Shipment	
	Shipment ID
	Order ID
	Status
	Delivery Date

Delivery-Zone	
String	ID
String	Name
String	Delivery Fee

Driver	
String	ID
String	Name
Num	Phone
Num	Rating

Order-Item	
String	ID
String	Order-ID
String	Product-ID
Num	Quantity
Num	Unit-Price
String	Customization-Details

Promotion	
String	ID
String	Code
Num	Discount-Amount
String	Discount-Type
Date	Start-Date

Delivery	
String	ID
String	Order-ID
String	Zone-ID
String	Status
Num	Delivery-Fee