

DAY 1

NAME: ALI HASAN

ROLL NO: 0044644

TIMING: SAT 9-12 AM

Step 1: Marketplace Type

Choice: General E-Commerce Marketplace

Primary Purpose:

The marketplace is a platform where customers can browse and purchase a wide range of furniture, including sofas, tables, chairs, and decor, from the comfort of their homes. It simplifies the process of finding and buying high-quality furniture at competitive prices.

Step 2: Business Goals

Problem Solved:

Many customers face challenges such as:

Limited options in local stores.

1. Difficulty comparing prices and styles across retailers.
2. Inconvenience in transporting large furniture items.

The platform solves these problems by offering:

A wide variety of furniture.

1. Transparent pricing and customer reviews.
2. Delivery services straight to the customer's doorstep.

Target Audience:

1. Young professionals furnishing their first homes.
2. Families looking for affordable yet stylish furniture.
3. Businesses needing office furniture.

Products Offered:

1. Living room furniture: Sofas, coffee tables, TV units.
2. Bedroom furniture: Beds, wardrobes, side tables.
3. Office furniture: Desks, chairs, storage solutions.
4. Home decor: Rugs, lamps, mirrors.

Competitive Edge:

1. **Affordability:** Reasonable prices with seasonal discounts.
 2. **Customization:** Option to personalize furniture (e.g., choosing colors or materials).
 3. **Convenience:** Detailed product descriptions, reviews, and reliable delivery.
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Step 3: Data Schema

Entities and Relationships:

Below is a summary of the entities and their relationships in the marketplace:

1. **Products:** Represents the furniture items.
 2. **Customers:** Represents the buyers.
 3. **Orders:** Links customers to purchased products.
 4. **Shipment:** Tracks delivery of orders.
 5. **Payments:** Handles transaction details.
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Sanity Schema:

```

export default {
  name: 'product',
  type: 'document',
  title: 'Product',
  fields: [
    {
      name: 'name',
      type: 'string',
      title: 'Name',
    },
    {
      name: 'image',
      type: 'image',
      title: 'Image',
      options: {
        hotspot: true,
      },
    },
    {
      name: 'price',
      type: 'string',
      title: 'Price',
    },
    {
      name: 'description',
      type: 'text',
      title: 'Description',
    },
    {
      name: 'discountPercentage',
      type: 'number',
      title: 'Discount Percentage',
    },
    {
      name: 'isFeaturedProduct',
      type: 'boolean',
      title: 'Is Featured Product',
    },
    {
      name: 'stockLevel',
      type: 'number',
      title: 'Stock Level',
    },
    {
      name: 'category',
      type: 'string',
      title: 'Category',
      options: {
        list: [
          { title: 'Chair', value: 'Chair' },
          { title: 'Sofa', value: 'Sofa' },
        ],
      },
    },
  ],
};

```

This schema covers:

- **Products:** Stores details about furniture.
- **Customers:** Stores user data and order history.
- **Orders:** Manages transactions.
- **Shipment:** Tracks delivery.
- **Payments:** Tracks payment status.