

Step 1: Marketplace Type

- Type: General E-Commerce
- Purpose:

To create an online platform that provides customers with access to various product categories (electronics, clothing, groceries, etc.) in a convenient and accessible way.

Step 2: Business Goals

1. Problem to Solve:

- Providing customers with a platform where they can order multiple products from one place.
- Easy access to a wide range of products without the need for physical store visits.

2. Target Audience:

- Urban and suburban customers.
- Busy professionals who prefer online shopping.

3. Products/Services Offered:

- Electronics, clothing, household items, groceries, beauty products.

4. Unique Selling Point:

- A wide variety of products.
- Affordable pricing with regular discounts.
- Seamless user experience with personalized recommendations.

Step 3: Data Schema

Entities:

1. Product:

- ID (Unique Identifier)
- Name
- Price
- Stock
- Category (e.g., Electronics, Clothing)
- Tags (e.g., "New Arrival")

2. Customer:

- Customer ID
- Name
- Contact Info (Email, Phone)
- Address
- Order History

3. Order:

- Order ID
- Product ID(s)
- Customer ID
- Status (Pending, Shipped, Delivered)
- Timestamp

4. Delivery Zones:

- Zone Name
- Coverage Area (Postal Codes/Cities)

5. Shipment:

- Shipment ID
- Order ID
- Status (In Transit, Delivered)
- Delivery Date

Relationships:

- Products link to Orders through Product ID.
- Orders link to Customers through Customer ID.
- Shipments are tied to Orders and Delivery Zones.

Schema Visualization:

