

DAY 2 PLANNING THE TECHNICAL FOUNDATION

ER-DIAGRAM

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Entities and Their Attributes:

1. Customer:

- **Attributes:**
 - Customer ID (Primary Key - PK)
 - Name
 - Email
 - Address
 - Phone
- Represents users or buyers in the system.

2. Order:

- **Attributes:**
 - Order ID (PK)
 - Order Date
 - Total Amount
 - Status
 - Customer ID (Foreign Key - FK)
- Captures details of customer orders.

3. Order Item:

- **Attributes:**
 - Order Item ID (PK)
 - Quantity
 - Subtotal
 - Product ID (FK)
- Represents the individual items in an order.

4. Product:

- **Attributes:**
 - Product ID (PK)
 - Name
 - Price
 - Stock
 - Category
- Represents the products available in the system (e.g., sofas, chairs).

5. Payment:

- **Attributes:**
 - Payment ID (PK)
 - Amount
 - Payment Date
 - Status
 - Customer ID
- Tracks payment details for orders.

Relationships:

1. Customer-Order Relationship:

- A customer can place multiple orders.
- Each order is linked to one customer.

2. Customer-Payment Relationship:

- A customer can make multiple payments.
- Payments are linked back to the corresponding customer.

3. Order-Order Item Relationship:

- An order can have multiple items.
- Each item is part of a specific order.

4. Product-Order Item Relationship:

- Each order item corresponds to a specific product.
- A product can appear in multiple orders.

