

Hackathon Day 1

Step 1, Market Place Type: E-Commerce

Primary Purpose:

E-Commerce is the buying and selling of goods or services using electronic means, typically over the internet. It encompasses a wide range of activities, from online retail and auctions to electronic banking and data interchange. E-commerce has revolutionized the way businesses operate and consumers shop, offering convenience, accessibility, and a vast selection of products and services.

Key Objectives:

1. **Speed & Convenience:** Delivering products faster than traditional e-commerce models.
2. **Localized Fulfillment:** Leveraging nearby warehouses, dark stores, and retail partners.
3. **Diverse Product Range:** Offering groceries, essentials, user electronics and more.
4. **Technology-Driven Operations:** Real-time inventory tracking, and last-mile delivery solutions.
5. **Customer Satisfaction & Retention:** Enhancing user experience with instant gratification.

Step 2, Business Goals:

1. What problem does your marketplace aim to solve?

Our marketplace addresses the **need for ultra-fast delivery of essential products**, ensuring customers receive items within minutes. Traditional e-commerce platforms often take **hours or days**, leading to inconvenience, especially for urgent needs like groceries, medicines, and household essentials.

2. Who is your target audience?

- **Urban consumers** who prioritize speed and convenience.
- **Busy professionals** needing quick access to essentials.
- **Students and young adults** looking for instant solutions.
- **Elderly individuals** who may struggle to visit physical stores.
- **Small businesses** requiring fast restocking of supplies.

3. What products or services will you offer?

- **Groceries & Fresh Produce** (fruits, vegetables, dairy, meat, beverages).
- **Household Essentials** (cleaning supplies, personal care items, baby products).
- **Electronics & Accessories** (chargers, headphones, smart gadgets).
- **Pet Supplies** (food, grooming items).
- **Furniture** (For Home Appearance)

4. What will set your marketplace apart?

Ultra-Fast Delivery: Orders delivered within **10–30 minutes**.

Hyper-Local Fulfillment: Dark stores & micro-warehouses for optimized logistics.

Wide Product Selection: More than just groceries, covering daily essentials.

Seamless App Experience: User-friendly, with real-time tracking.

Subscription & Loyalty Programs: Discounts for frequent users.

Step 3, Data Schema:

1: Entities in Market place:

- Products
- Orders
- Customer
- Shipment

2: Diagram For Relation between entities:



3: Fields for Each entity

Products

- Product ID
- name
- description

- price
- Category

Orders

- Order ID (Primary Key)
- User ID (Foreign Key)
- Order Status (Pending, Shipped, Delivered)
- Total price
- Payment
- Date and time of order placement.

Customer:

- Customer ID (Primary Key)
- name
- email
- phone number
- address

Shipment:

- Shipment ID
- Order ID
- Current status
- Delivery Date: Expected or actual delivery date.

4: Made A Simple Schema

5: Tested the Schema