# Hackathone : DAY:1    15-01-25

LAYING THE FOUNDATION FOR YOUR
MARKETPLACE JOURNEY :

## STEP : 1    MARKET PLACE TYPE

Choosen Type: I have decided General E-commerce
Primary Purpose:
                After considering the options,
I have decided to go with General E-commerce
Market Place specifically focused on shirts
The primary purpose of my market place is
to provide customers with an easy and
reliable platform to purchase high quality
shirts, catering to various styles such as
casual, formal and trendy designs.

## STEP : 2   Define Your buisness goals

1. Problem to Solve:
                Many people struggle to find
a platform that offers stylish, high
quality shirts at affordable prices. My
market place aims to bridge this gap by
providing a wide variety of shirts and

ensuring a Seamless shopping experience.

## 2- Target Audience:
- Young professionals who need well fitted, formal shirts for work.
- Trend-Concious individuals who are always on the lookout for fashionable casul shirt.
- Budget-Concious customers who want good quality at a reasonable price.

## 3 - Products/Services offered:
- A curated collection of shirts categorized into **Casual, Formal, Party wear** and **custom Designs.**
- Advanced filters for easy browsing by **size, colors, brands** and **material.**
- Exclusive offer like discounts for loyal customers.

## 4- What sets It APART:
- Customization: Customers can create personalized shirts by choosing their preffered colored, fit and style.
- Affordability: Competitve pricing with regular promotions and discounts.

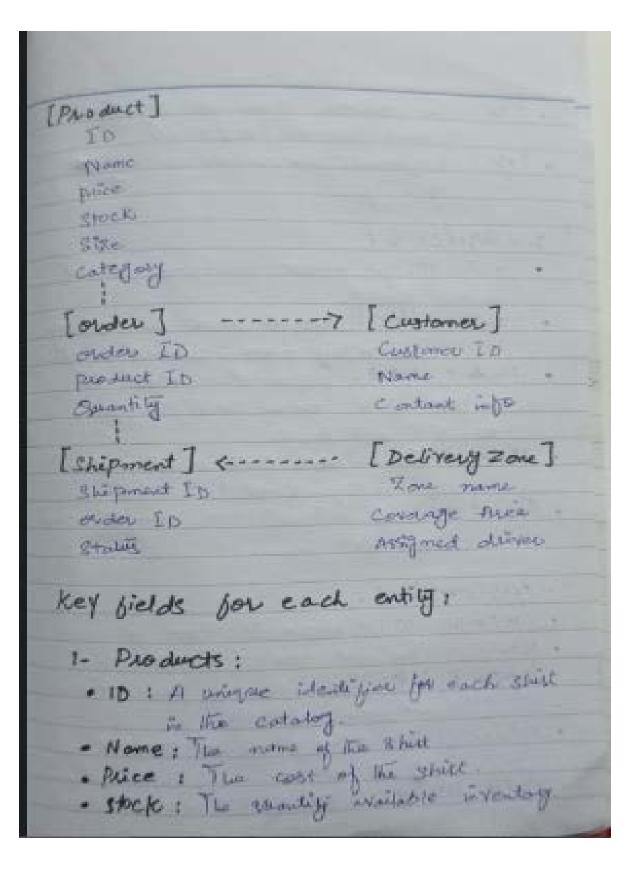- Fast delivery: 2-day delivery for urban areas and standard delivery for others.

# STEP 3 : DATA SCHEMA :

## 1. Entities :

The core components of the shirt marketplace :

- Products (Shirts)
- orders
- Customers
- Delivery Zones
- Shipment

## 2- Relationship b/w Entities :

[Product]
   ID
   Name
   Price
   Stock
   Size
   Category
   ⋮

[Order]    - - - - - - - →    [Customer]
  Order ID                Customer ID
  Product ID            Name
  Quantity               Contact info
  ⋮

[Shipment]    ← - - - - - - -    [Delivery Zone]
  Shipment ID           Zone name
  Order ID               Coverage area
  Status                 Assigned driver

Key fields for each entity:

1- Products :
- ID : A unique identifier for each shirt in the catalog.
- Name : The name of the shirt
- Price : The cost of the shirt.
- Stock : The quantity available inventory.

- **Size**: The available sizes for the shirt: (casual, formal, partywear)
- **Tags**: Keywords for easier search and filtering.

## 2 - Orders:
- **order ID**: A unique identifier for each order placed.
- **customer info**: Detail about the customer, including name, contact & address
- **product detail**: Information about the product in the order such as name, quantity and price.
- **status**: The current state of the order. (e.g : Pending, shipped
- **Timestamp**: The date and time when the order was placed.

## 3 - customers:
- **customer ID**: A unique identifier for each customer
- **Name**: The full name of the customer.
- **contact info**: The customers phone number and email address.
- **Address**: The delivery address provided by the customer.
- **order history**: A list of past orders placed by the customer.

## 4- Delivery Zone:

- Zone name: A unique identifier or name for the delivery area.
- Coverage Area: The regions or postal codes serviced within the delivery zone.
- Assigned Drivers: Information about the drivers or couriers allocated to the zone.

## 5- Shipment:

- Shipment ID: A unique identifier for tracking shipment.
- Order ID: The ID of the order associated with the shipment.
- Status: The current status of the shipment (e.g : In Transit, Delivered)
- Delivery Date: The expected or actual delivery date of the shipment.

# Simple Data Schema Diagram:

```
┌─────────────────┐              ┌─────────────────┐
│ Products        │   ◄──────►   │ Orders          │
│ ID              │              │ order ID        │
│ Name            │              │ Product ID      │
│ Price           │              │ Customer ID     │
│ Stock           │              │ Status          │
│ Category        │              │ Timestamp       │
└─────────────────┘              └─────────────────┘
                                         ▲
                                         │
                                         ▼
┌─────────────────┐              ┌─────────────────┐
│ Delivery Zones  │   ◄──────►   │ Customers       │
│ Zone Name       │              │ customer ID     │
│ coverage Area   │              │ Name            │
│ Assigned Deivey │              │ contact info    │
└─────────────────┘              │ Address         │
        ▲                        │ order History   │
        │                        └─────────────────┘
        ▼
┌─────────────────┐
│ Shipments       │
│ Shipment ID     │
│ order ID        │
│ Status          │
│ Delivery Date   │
└─────────────────┘
```