Data Schema sawily

Product
Id
name
Price
stock
category
Tags
rating

Referenced in →

order
Id
ProductID
Quantity
TotalPrice
status

Assigned to →

shipment
Id
orderId
deliveryzone
assignedDriver

Places →

costomer
Id
name
contactInfo
address
orderHistory

Link to →

Payment
Id
orderId
amount
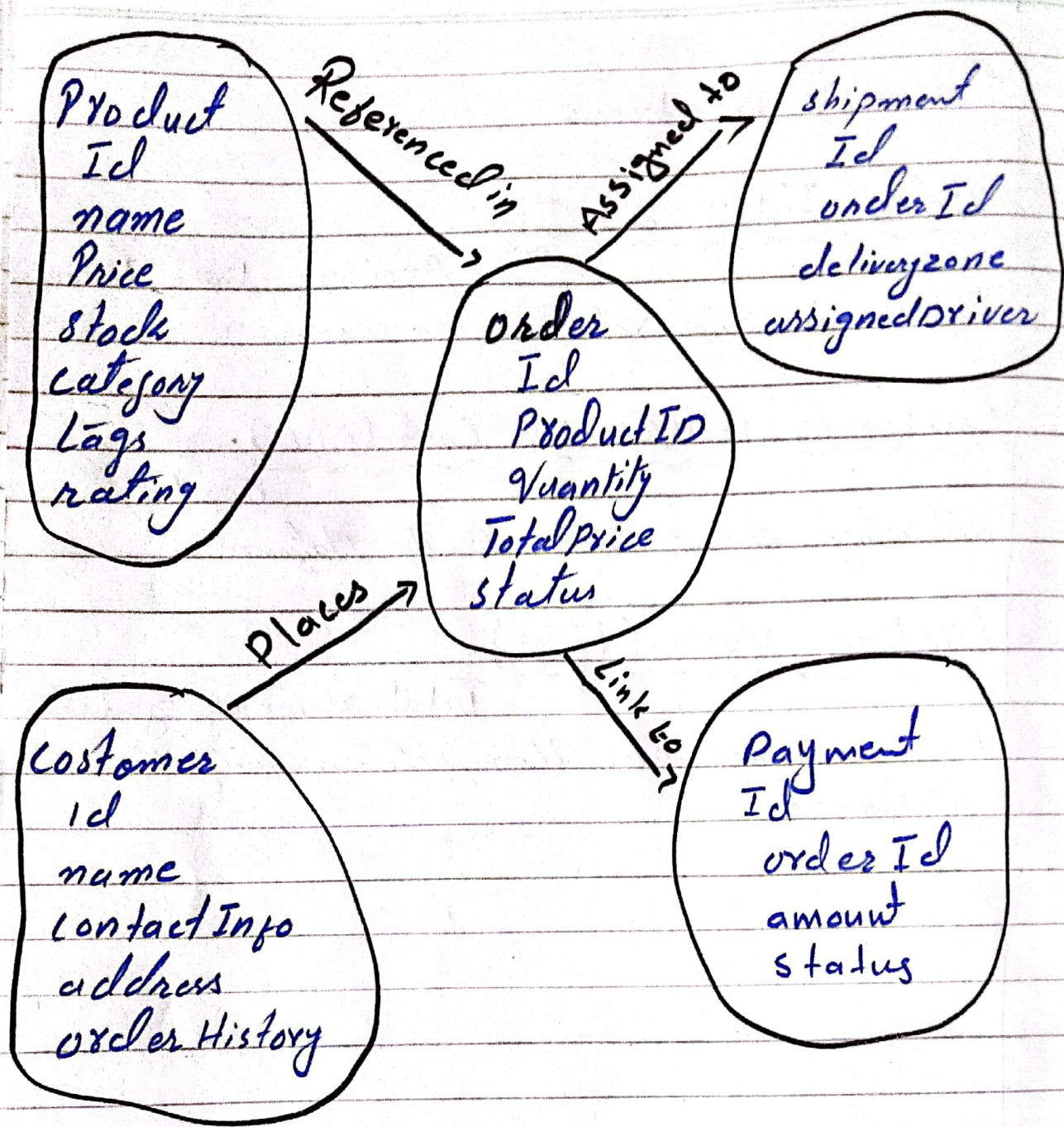status

Sketch of E-commerce Platform Data
Schema.

Business Metrics

Order Fulfillment Time.
Average time taken to Process and deliver an order.

Customer Acquisition Cost (CAC).
Cost of attracting new costomer to the Platform.

Lifetime Value (LTV):
Total revenue generated by a customer over their relation with the platform.

Workflow of the Platform:

Customer Browsing:
using explore product listing using advanced search and filtering options.

Adding to cart:
Customers add desired to their cart.

Placing orders:
Order are placed through a streamlined checkout process.

order Fulfillment:

The system verifies stock available and process payment.
The order is assigned to a shipment.

Tracking & Notification:
Customer receive real time update on the order's progress.

Delivery:
Product are delivered within the promised timeframe.

Shipment:

Id:
    Unique shipment identifier.

orderId:
    Associated order ID

Deliveryzone:
    Location-specific delivery area.

assigned Driver:
    Driver responsible for delivery

Payment:

Id:
    Payment transaction ID.

orderId:
    Linked order ID

amount:
    Total payment amount

status:
    Payment status (Paid, Pending)

Customer

ID:
   Unique identifier for each Costomer

Name:
   Full name.

Contact info
   Email and phone number.

Address:
   Delivery address

Order History:
   List of previous order.

Product Id:
   Reference to the Product(s) ordered.

Quantity:
   Number of item ordered.

Total Price:
   Total cost of the order.

Status:
   Current order status (Pending, shipped, Delivered)

Customer Profile:

Personalized account with saved address, Payment method, and purchase history.

Enhanced Data scheema:

Entities and Attributes:

Product

Id:
unique identifier for each product (sku)

Name:
Product name (T-shirt, Pent, jacket)

Price:
cost per unit

Stock:
Quantity available

Category:
Classification of Product (clothing)

Tags:
Keyword for Search engin optimization

of categories, including clothing.

Personalized Experience:
Product tailed to each customer preference.

Customer trust:
Build a Platform that ensures Secure transaction, easy return, and exceptional.

Key Features:

Product Listing:
Detailed Produced Pages with images, description, review, and stock available.

Advanced Search:
Filters by price, category brand, and rating to help customer find the right Product Quickly.

Order Management:
Real-time tracking of order a easy cancellation, and refunds.

Business Goal for E-commerce Platform

Overview of the Platform,

This E-commerce Platform aims to revolution the way customer shop online by offering a seamless, efficient, and user-friendly experience. The Platform is designed to cater to wide range of Products, from Clothing and accessness to. Our mission is to make online shopping convenient, reliable, and fast while ensuring the highest Quality of service.

Business Goal,

Convenience:
Allow Customer to browse and purchase a variety of Product from the comfort of their homes.

Fast Delivery:
Achieve Quick delivery times (same day within 1-2 days) to enhance customer satisfact

Wide Product Range:
Offer a diverse range