

Marketplace Type

- Rental Ecommerce:

Rental Ecommerce is an online platform where users can rent products or services instead of purchasing them.

Why Car Rental Ecommerce:

- It solves the problem of affordable and reliable transportation.
- Provides income opportunities for car owners.
- It allows me to build a scalable marketplace while gaining practical experience in a growing industry.
- Lower competition in the car rental market compared to others.

Problem to Solve:

My marketplace addresses the challenge of finding affordable and accessible cars rentals by providing a user-friendly platform that connects car owners with renters.

Target Audience:

- Renters like families, travelers, friends that need cars for vacation or professionals, who need cars temporarily.
- Owners like individuals who want to earn extra income by renting out their vehicles.
- And individuals or businesses operating car rental shops who wish to expand their reach and customer base.

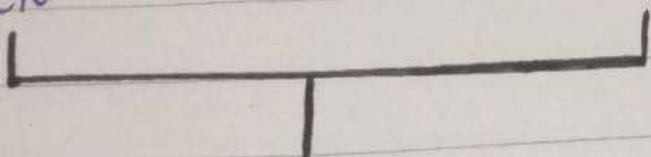
Car Rental Marketplace

Cars

- Id (Car's Id)
- Name
- Type (e.g. Sedan)
- Price
- Stock

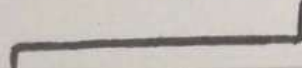
Customers

- Id (Customer's Id)
- Name
- Phone Number
- Address
- Rental History



Order

- Id (Order Id)
- Customer Id (reference from Customers schema)
- Car Id (cars schema)
- Rental Period (days)
- Status (Pending, Confirmed etc)
- Total Price
- Time Stamp



Payment

- Id
- Order Id
- Amount
- Method
- Status

Shipment

- Shipment Id
- Order Id
- Status
- Delivery date
- Zone Id

Delivery Zone

- Zone Id
- Zone Name
- Postal Code
- Coverage Area
- Assigned Drivers

WORK FLOW

- 1- Customer browses available cars (From Cars Schema)
- 2- When a customer selects a car and processes to rent it, an Order is created. The Order Schema records the transactions (customer Id, car's Id, total price etc). Order status set to pending initially, Because the payment still needs to be processed.
- 3- Then, the customer proceeds to make the payment and the Payment schema handles the transaction. Payment is linked to an Order. Once the payment received successfully, the status is updated in Order Schema from "Pending" to "paid".
- 4- Once the payment is successful, the Shipment process is triggered and the car is ready to be delivered. The Order Status will be updated to "Shipped". The Shipment Schema will

handle the logics of delivering car.

- At this stage, the car is being shipped to the customer.

- Then, the delivery zone determines where the car will be delivered. It ensures the correct driver is assigned for the delivery (Linked to the Driver's Schema).

- Once the car reaches the customer, the Shipment status is updated to "Delivered".