STEP: 1 **CHOOSE YOUR MARKETPLACE**

RENTAL E-COMMERCE:

The main reason of rental E-commerce marketplace is to create an open and low-cost source to rent a car for short term users. We all know that ownership of cars are very expansive so renting a car will help to solve this issue by delivering cars for rent in reasonable price for hours or as long as customers want.

STEP: 2 **BUSINESS GOALS**

PROBLEM TO SOLVE:

Renting a car should be easy, accessible and affordable for a person who needs vehicles only for a short period.

TARGET AUDIENCE:

My target audiences are those people who need temporary access to cars in budget-friendly especially for students who don't have cars.

SERVICES:

- **CAR RENTAL:** Different kind of cars will be available to be hired for hours or as long as customer wants.
- **ONLINE RESERVATION:** Online booking will make it easier and save time for customers.
- **DELIEVRY:** Customers can have their cars delivered to their preferred place.
- **CUSTOMER SUPPORT:** 24/7 customer service will be available so they can ask their questions or change the delivery details.

- **CAR LISTING FOR OWNERS:** This service can give opportunity for car owners to earn extra income by renting out their cars in their desired rental price.
- **FILTER AND RECOMMANDATION:** In this feature customers can search the car by using filters for type, location, price and features. They can also get suggestions based on their past bookings.
- **INSURANCE AND SAFETY:** This feature can be optional for both car owners and customers to make rental safe and worry free.
- **OFFERS AND DISCOUNTS:** This can offers customers seasonal special discounts and offers for first time users also rewards for loyal customers.
- **USER ACCOUNT:** Customers can manage bookings, view rental history and update preference through their dashboard by using this feature they can save their favorite cars, tracking rental and receiving notification for upcoming booking and offers.

WHAT WILL SET YOUR MARKETPLACE APART?

- **SMOOTH PROCESS:** Intuitive booking with easy account management.
- **WIDE VARIETY:** Large selection of cars will be available on flexible rental agreement.
- **FOR THE OWNER:** Sign up, easy list, pay and support.
- **USER FRIENDLY:** Round the clock support, insurances, competitive rates and promotions.

Our platform guarantees a premium experience for renters and car owners as we focus on convenience, flexibility and safety.

STEP: 3 **DATA SCHEMA**

IDENTIFY THE ENTITIES IN YOUR MARKETPLACE:

1. **CARS:** Vehicles available for rent.
   - **ATTRIBUTES:** Car ID, Make, Model, Year, Type (SUV, Sedan, etc.), Features, Rental Price, Availability Status, Location, Owner ID.
2. **RENTAL:** Records of transactions between customers and the platform.
   - **ATTRIBUTES:** Rental ID, Customer ID, Car ID, Start Date, End Date, Total Price, Payment Status, Insurance Opt-in, Delivery Details.
3. **CUSTOMERS:** Individuals or businesses renting cars.
   - **ATTRIBUTES:** Customer ID, Name, Contact Info, Address, Payment Method, Rental History, Preferences.
4. **CAR OWNERS:** Individuals or businesses listing cars for rent.
   - **ATTRIBUTES:** Owner ID, Name, Contact Info, Bank Details, Car Listings, Earnings, Ratings.
5. **DELIVERY ZONE:** Areas where delivery service will available.
   - **ATTRIBUTES:** Zone ID, Name, Coverage Area (coordinates/regions), Delivery Fee.
6. **PAYMENTS:** Tracks all transactions.

- **ATTRIBUTES:** Payment ID, Rental ID, Amount, Payment Date, Payment Method, Status (Pending, Completed And Failed).

7. REVIEWS: Feedback provided by customers and car owners.

- **ATTRIBUTES:** Review ID, Reviewer ID, Reviewed Entity (Car/Customer/Owner), Rating, Comments, Date.

8. OFFERS AND DISCOUNTS: Promotions available to customers.

- **ATTRIBUTES:** Offer ID, Name, Description, Discount Percentage, Validity Period, Eligibility Criteria.

9. INSURANCE: Details about optional coverage for rentals.

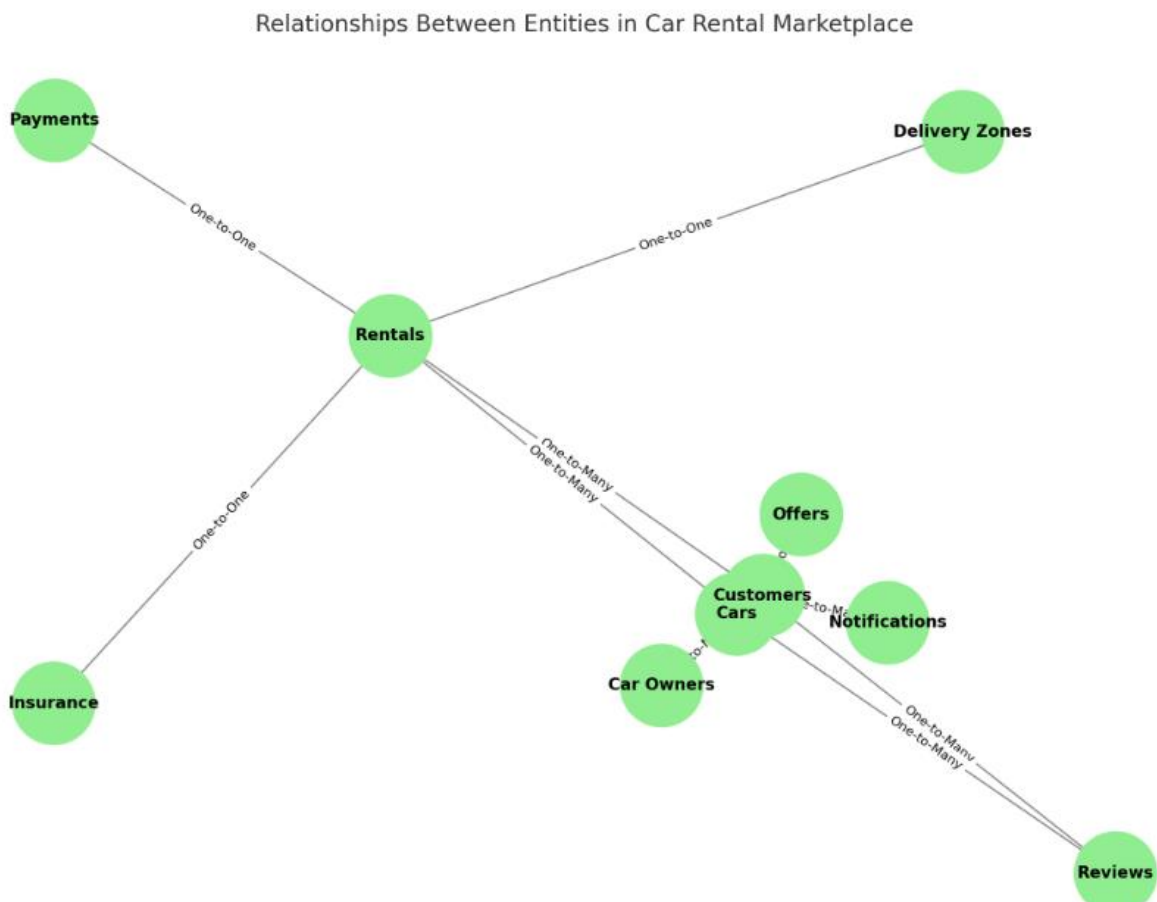- **ATTRIBUTES:** Insurance ID, Type, Coverage Amount, Cost, Terms and Conditions.

10. NOTIFICATIONS: Messages and alerts sent to users.

- **ATTRIBUTES:** Notification ID, User ID, Type (Booking Confirmation, Offer, Reminder), Content, Date Sent, Read Status.

DRAW RELATION BETWEEN ENTITLES:

- **Customer → Rentals**: One-to-many (A customer can have multiple rentals).
- **Cars → Rentals**: One-to-many (A car can have multiple rentals over time).
- **Car Owners → Cars**: One-to-many (An owner can list multiple cars).

- **Rentals → Payments**: One-to-one (Each rental has one associated payment).
- **Rentals → Delivery Zones**: One-to-one (A rental delivery/pickup falls within a specific zone).
- **Customer → Reviews**: One-to-many (A customer can leave multiple reviews).
- **Cars → Reviews**: One-to-many (A car can have multiple reviews).
- **Offers → Customers**: Many-to-many (Multiple customers can avail of multiple offers).

Relationships Between Entities in Car Rental Marketplace

FOCUS ON KEY FIELD FOR EACH ENTITY:

1. Cars:

- Car ID
- Make and Model
- Year
- Type (SUV, Sedan, etc.)
- Features (e.g., GPS, Bluetooth)
- Rental Price (Hourly, Daily)
- Availability Status
- Location
- Owner ID

2. Customers:
- Customer ID
- Name
- Email
- Phone Number
- Address
- Payment Method
- Rental History
- Preferences

3. Rentals:

- Rental ID
- Customer ID
- Car ID
- Start Date and Time
- End Date and Time
- Delivery or Pickup Location
- Total Cost
- Insurance Opt-in

- Status (Active, Completed, Cancelled)

4. Payments:

- Payment ID
- Rental ID
- Amount Paid
- Payment Method (Credit Card, PayPal, etc.)
- Payment Status (Pending, Completed, Failed)
- Payment Date

5. Delivery Zones:

- Zone ID
- Name or Region
- Coverage Area (Coordinates or Postal Codes)
- Delivery Fee