Hackathon -3 Day-1 Task

My last figma template hackathon was last digit of no 7 therefore my **Marketplace type of is Rental-E-Commerce.**

The primary purpose of Rental-E-Commerce to produce a smooth path between owner and renters provide good facilities both parties where products are sold outright, rental e-commerce focuses on enabling temporary access to goods.

- Make it easy for users to find and rent cars online without visiting a physical rental office.
- Provide a seamless booking experience with options for selecting pickup and drop-off locations, dates, and times.

Easy booking process, availability of vehicles at airports or train stations, competitive pricing, and clear insurance options.

Offer a diverse range of vehicles to cater to different user needs, from economy cars to luxury vehicles and vans.

Clearly display pricing, terms and conditions, insurance options, and any additional fees.

- Implement user verification, secure payment methods, and insurance options to ensure safe transactions.
- Offer support for issues like breakdowns, accidents, or disputes.

Target audience

Tourists and Travelers

Business Professionals.

Event Planners

Student.

Local resident:

Families: Spacious vehicles for family trips, vacations, or moving large items.

Car Enthusiasts:

1. **Economy Cars**:
    - Ideal for budget-conscious renters looking for fuel-efficient, compact vehicles.
2. **Sedans**:
    - Mid-range vehicles suitable for small families, business professionals, or local residents needing a comfortable ride.
3. **SUVs**:
    - Spacious vehicles for families, group travelers, or individuals requiring extra luggage space.
4. **Luxury Cars**:
    - High-end models catering to business professionals, car enthusiasts, or those seeking a premium experience for special occasions.
5. **Sports Cars**:
    - For car enthusiasts or customers looking for a thrilling driving experience.
6. **Vans and Minivans**:
    - Suitable for large families, event planners, or group travel.
7. **Electric and Hybrid Cars**:
    - Eco-friendly options for environmentally conscious customers or those wanting to test new technology.
8. **Trucks**:
    - Useful for moving or transporting heavy goods.
9. **Motorcycles**:
    - For adventurous renters or those looking for a compact, quick transportation option.

Services:

1. **Short-Term Rentals**:
    - Hourly, daily, or weekend rentals for local errands, short trips, or last-minute needs.
2. **Long-Term Rentals**:
    - Weekly or monthly rentals for users needing extended access to a vehicle, such as expats or corporate clients.
3. **Airport Pickup and Drop-Off**:
    - Convenient car delivery and return at airports for travelers.
4. **Delivery and Pickup Services**:
    - Delivering the rental car to the customer's location and picking it up after use.
5. **Insurance Options**:
    - Offering basic and comprehensive insurance packages for peace of mind.
6. **Roadside Assistance**:
    - 24/7 support for breakdowns, flat tires, or other emergencies.
7. **Customizable Packages**:
    - Tailored rental plans for specific needs, such as weddings, events, or corporate clients.
8. **Loyalty Programs**:

    - Rewarding frequent users with discounts, upgrades, or free rental days.
9. **Car Subscription Service**:
    - Monthly subscription allowing users to swap between different cars based on their needs, providing flexibility without the commitment of ownership.
10. **Fleet Management**:
    - Offering businesses a managed service for their employee transportation needs, including maintenance and reporting.
11. **Driver Services**:
    - Providing professional drivers for customers who need a chauffeur.

Create a schema .

. Users Table

- `user_id` (Primary Key)
- `name`
- `email` (Unique)
- `password` (Hashed)
- `phone_number`
- `address`
- `user_type` (e.g., "renter" or "owner")
- `created_at`
- `updated_at`

2. Cars Table

- `car_id` (Primary Key)
- `owner_id` (Foreign Key referencing `Users.user_id`)
- `make` (e.g., Toyota, Ford)
- `model`
- `year`
- `license_plate` (Unique)
- `seating_capacity`
- `fuel_type` (e.g., petrol, diesel, electric)
- `transmission` (e.g., automatic, manual)
- `rental_price_per_day`
- `availability_status` (e.g., available, rented)
- `location`
- `description`
- `created_at`
- `updated_at`

3. Rentals Table

- `rental_id` (Primary Key)
- `car_id` (Foreign Key referencing `Cars.car_id`)
- `renter_id` (Foreign Key referencing `Users.user_id`)
- `start_date`
- `end_date`
- `total_price`
- `rental_status` (e.g., booked, in_progress, completed, canceled)
- `created_at`
- `updated_at`

4. Transactions Table

- `transaction_id` (Primary Key)
- `rental_id` (Foreign Key referencing `Rentals.rental_id`)
- `payment_method` (e.g., credit card, PayPal)
- `transaction_date`
- `amount`
- `transaction_status` (e.g., successful, failed)
- `created_at`
- `updated_at`

5. Reviews Table

- `review_id` (Primary Key)
- `rental_id` (Foreign Key referencing `Rentals.rental_id`)
- `reviewer_id` (Foreign Key referencing `Users.user_id`)
- `rating` (1 to 5 stars)
- `comment`
- `created_at`
- `updated_at`

6. Car Images Table

- `image_id` (Primary Key)
- `car_id` (Foreign Key referencing `Cars.car_id`)
- `image_url`
- `created_at`

7. Notifications Table

- `notification_id` (Primary Key)
- `user_id` (Foreign Key referencing `Users.user_id`)
- `message`
- `read_status` (e.g., read, unread)
- `created_at`

Relationships:

- **Users and Cars**: One-to-Many (One user can own multiple cars).
- **Cars and Rentals**: One-to-Many (One car can have multiple rental records).
- **Users and Rentals**: One-to-Many (One user can have multiple rentals as a renter).
- **Rentals and Transactions**: One-to-One (Each rental has one corresponding transaction).
- **Rentals and Reviews**: One-to-One (Each rental can have one review).

This schema captures the essential relationships and data points for a car rental system, ensuring efficient data storage and retrieval.

Would you like to expand on any particular part of the schema or add more features?