E-Commerce MarketPlace Project Plan

Marketplace Type:- Rental E-Commerce

Purpose:-

The car rental marketplace will provide users with access to vehicles for short-term or long-term use, offering an affordable, flexible and sustainable alternative to car ownership. It will connect car owners or rental bussinesses with customers seeking vehicles.

Bussiness Goals:-

1- What problem does your marketplace aim to solve?

- Provide easy access to rental cars for individuals who need temporary transportation.
- Bridge the gap between vehicle owners and

renters, making the process more efficient and accessible.
- Reduce costs associated with car ownership for users who only ocassionally need a vehicle.

2- Who is your target audience?

- Travelers, tourists and bussiness professionals needing temporary transportation.
- Urban residents who don't own cars but need one ocassiunally.
- Car owners looking to monetize their vehicles through rental opportunities.

3- What products or services will you offer?

- Rental cars of various types (e.g SUV, sport, luxury etc).
- Customizable rental periods ranging from hours to weeks.

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4- What will set your marketplace apart?

- **Affordability:-** Competitive pricing and transparent fee structure.
- **Covenience:-** Easy-to-use booking system with instant availability updates.
- **Customization:-** Flexible rental durations, add-ons and personalized customer preferences.
- **Trust and Safety:-** Verified users, insurance options and secure payment systems.

DATA SCHEMA:-

Entities:-

- Vehicles:- Represents the car available for rent.
- Orders:- Represents rental transactions.
- Customers:- Represents users who rent vehicles.
- Owners:- Represents users who list their vehicles.
- Delivery Zones:- Represents areas where vehicles can be picked up or delivered.

Relationship:-

1- A Vehicle belongs to an Owner.
2- A Customer can place multiple orders
3- Orders associated with customer
4- Each Vehicle can be available in specific Delivery Zones-

Relationship between Entities:-

[Vehicle]   ------->   [Owner ID]
- Vehicle ID   - Owner ID
- Name   - Name
- Type   - Contact Info
- Daily Rate   - Vehicle IDs
- Features

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[Order]   -------->   [Customer]
- Order ID   - Customer ID
- Vehicle ID   - Name
- Rental period   - Contact Info
- Total cost   - License Details

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[Vehicle] ---------> [Delivery Zone]
- Vehicle ID   - Zone ID
- Location   - Zone Name
                         - Coverage Area

Key fields of Each Entity:-

1- Vehicles:-
- Vehicle ID
- Name
- Type
- Daily Rate
- Availability Status
- Location
- Owner ID
- Features

2- Orders:-
- Order ID
- Customer ID
- Vehicle ID
- Rental period
- Total cost
- Order status (e.g Pending, Active, Completed)

3- Customer

3 - Customer

- Customer ID
- Name
- Contact Info
- Driving License Details
- Payment Method.

4 - Owner

- Owner ID
- Name
- Contact Info
- Vehicle IDs

5 - Delivery Zones

- Zone ID
- Zone Name
- Coverage area.