

# "Car Rental Website"

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By

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## Step 1: Marketplace Type

- Rental E-commerce

### Primary Purpose:

- Providing specialized car rental services for Weddings, Tours, Parties including insurance and professional drivers. The platform ensures a seamless booking experience, safety and reliability catering to customer's specific event and travel needs with convenience and peace of mind. We provide customers to browse convenient way to browse and rents car provide online booking and payment charge to time duration first the customers pay the payment then give a car and fuel cost will depend on customers.

### Key Features:-

#### Rental Process:-

Booking system enables users to select dates and book services easily.

#### Real-Time Inventory Update:-

Prevent double booking or unavailability issues.

#### Payment method:-

Support multiple payment option  
e.g (Bank transfer, Jazz cash, easypaisa).

## User Profile:-

User to allow to view and manage their bookings, payment history, and personal details.

- location-based services

- Insurance & Policies

## Primary Goal:-

- We give user-friendly experience for customers to easily search, book, and pay for rentals.

- A smooth user journey improve customer satisfaction and increase conversion.

- The rental booking process and offer secure payment.

## Step 2: Defining Business Goal:-

Q1) What specific problem does my market place address for customers?

Ans) Many customers face challenges in finding best comfortable vehicles for wedding, tour and party. I provide this service with affordable price with online booking without going physical to search - we provide booking process with pick-up and drop-off options. We provide clear pricing, insurance policies and rental terms to build trust with users.

Q2) Who is my target Audience?

Ans) Couples Weddings: People looking for elegant or luxury cars for their weddings.

- Tourists: individual or group visiting area who need reliable transportation for tours.

- Event Planner: Organizing parties or special event that require transportation.

- Families or Group: People who need a larger vehicles for family trips, picnic, or group travel.

Q3) what types of vehicles will you provide for rent?

Ans) Rental Cars: (Luxury Cars, SUVs & Minivans, Economy cars, Vans & Coach)  
 Rental Plans: (Hourly, Daily, weekly, Monthly, weekend special, Flexible pick & drop, Package Deal, Custom rental plan.)

Q4) what will distinguish your car rental business in the marketplace?

Ans) User-friendliness: We provide simple online booking, Quick and easy checkout, multiple payments method, instant confirmation, user friendly dashboard.

- Reasonable Price: Budget friendly pricing get customers get the best value for their rental needs.

- Clarity and Openness: Detailed about car, real time car availability.

### Step 3: Create a Data Schema

#### 1. Identify the entities:

- Customers: Information about the person renting the car.

- Car: Details about vehicles available for rent.

- Rental: Information about the rental transaction.

Date: \_\_\_\_\_

- Payment: Payment details related to a rental car transaction.
- Review: Capture feedback and rating for cars and our services on browser.

## 2. Draw Relationship between entities -

[User]

- UserID
- Name
- Email
- Phone
- Role(Customer/Admin)

[Rental] - - - - - [Car]

- |               |                                      |
|---------------|--------------------------------------|
| • RentalID    | • CarID                              |
| • UserID      | • Make                               |
| • Car ID      | • Model                              |
| • Start Date  | • Year                               |
| • End Date    | • Type(SUV, Sedan, Electric, Hybrid) |
| • Total Price | • Price per Day                      |
| • Status      | • Availability                       |
| !             | • Location                           |

[Payment] - - - - - [Review] - - - - - [Car]

- |                                      |            |         |
|--------------------------------------|------------|---------|
| • PaymentID                          | • ReviewID | • CarID |
| • RentalID                           | • UserID   | • Make  |
| • Amount                             | • Rating   | • Model |
| • Method(credit card, Bank Transfer) |            | • Type  |
| • Status(completed/Process/Failed)   |            |         |

### 3) Focus on key field for each entity

- User

- id: unique
- name: username
- email: user email
- phone: user phonenum
- role: customer/Admin
- createdAt - date

- Payment
- id: unique
- rental ID
- amount
- method
- status

- Car

- id: unique
- make
- model
- year
- type
- PricePerDay
- Availability
- location
- Features

- Review
- id: unique
- userId
- car Id
- rating

- Rental

- Id: unique
- user Id
- car Id
- startDate
- endDate
- Totalprice
- status

Date: \_\_\_\_\_

#### 4.) Keep it simple yet comprehensive:-

- This schema is designed to be:

- Modular & easy to extend (e.g: Adding new car)
- Aligning with business goals like tracking inventory, managing rentals, and enabling customer feedback.

#### 5.) Test my Schema:-

##### 1.) Inventory Management:

Cars can be tracked using the availability field in the car entity.

##### 2.) Order Tracking:

Rentals are linked to users and cars with status fields for tracking booking progress.

##### 3.) Customer Engagement:

The review entity allows users to provide feedback & help future customers make informed choices.

##### 4.) Payment Tracking:

The payment entity ensures all transactions are logged, with status indicating success or failure.

#### Critical operations supported:

- Book cars with pricing calculated based on the rental duration.
- Process payment securely & track their status.
- Collect & display user reviews to build trust.