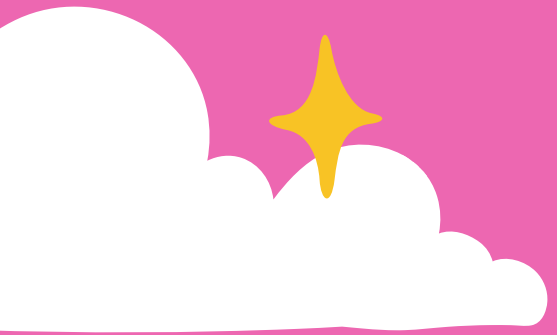# RIDERPROVIDER

VEHICLE RENTAL MANAGEMENT SYSTEM

JATIN SANTOSH NAIK RA2311026010670
AGAMJOT KAUR CHOUDHARY RA2311026010681
ADITI ONKAR RA2311026010693
PUSHKAL TIWARI RA2311026010697
SYON MUKHERJEE RA2311026010701
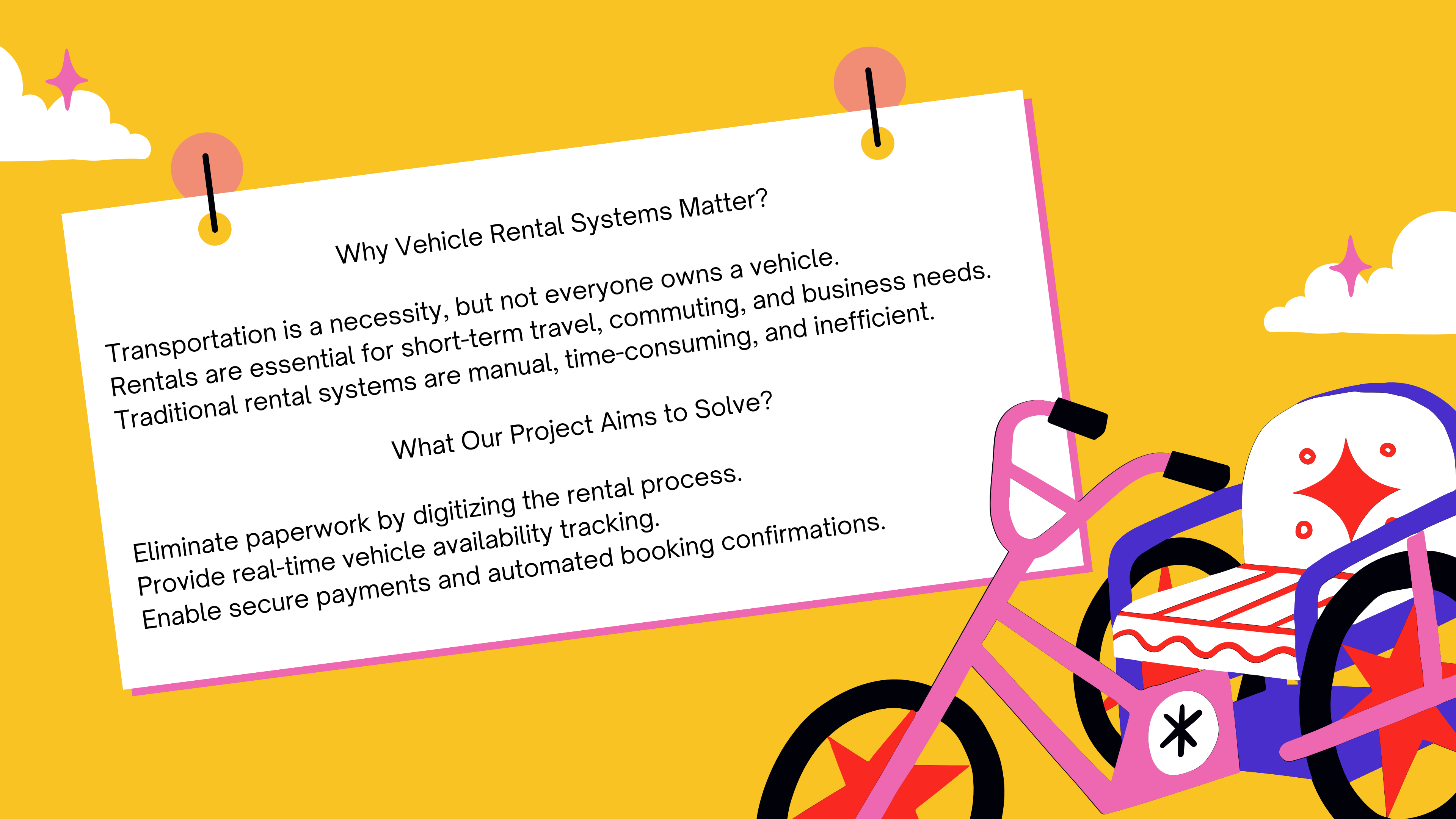SHREYANS MODI RA2311026010720

OUR VEHICLES

CAR

BIKE

SCOOTERS

Why Vehicle Rental Systems Matter?

Transportation is a necessity, but not everyone owns a vehicle.
Rentals are essential for short-term travel, commuting, and business needs.
Traditional rental systems are manual, time-consuming, and inefficient.

What Our Project Aims to Solve?

Eliminate paperwork by digitizing the rental process.
Provide real-time vehicle availability tracking.
Enable secure payments and automated booking confirmations.

LITERATURE SURVEY

📌 Existing Systems:
1. Traditional Rentals: Manual paperwork, slow booking process.
2. Online Rental Platforms (e.g., Zoomcar, Uber Rentals): Lacks customization for small businesses.

⚠ Challenges in Current Systems:
- No real-time vehicle availability updates.
- Limited fraud prevention and rental history tracking.
- Inefficient fleet management for rental businesses.
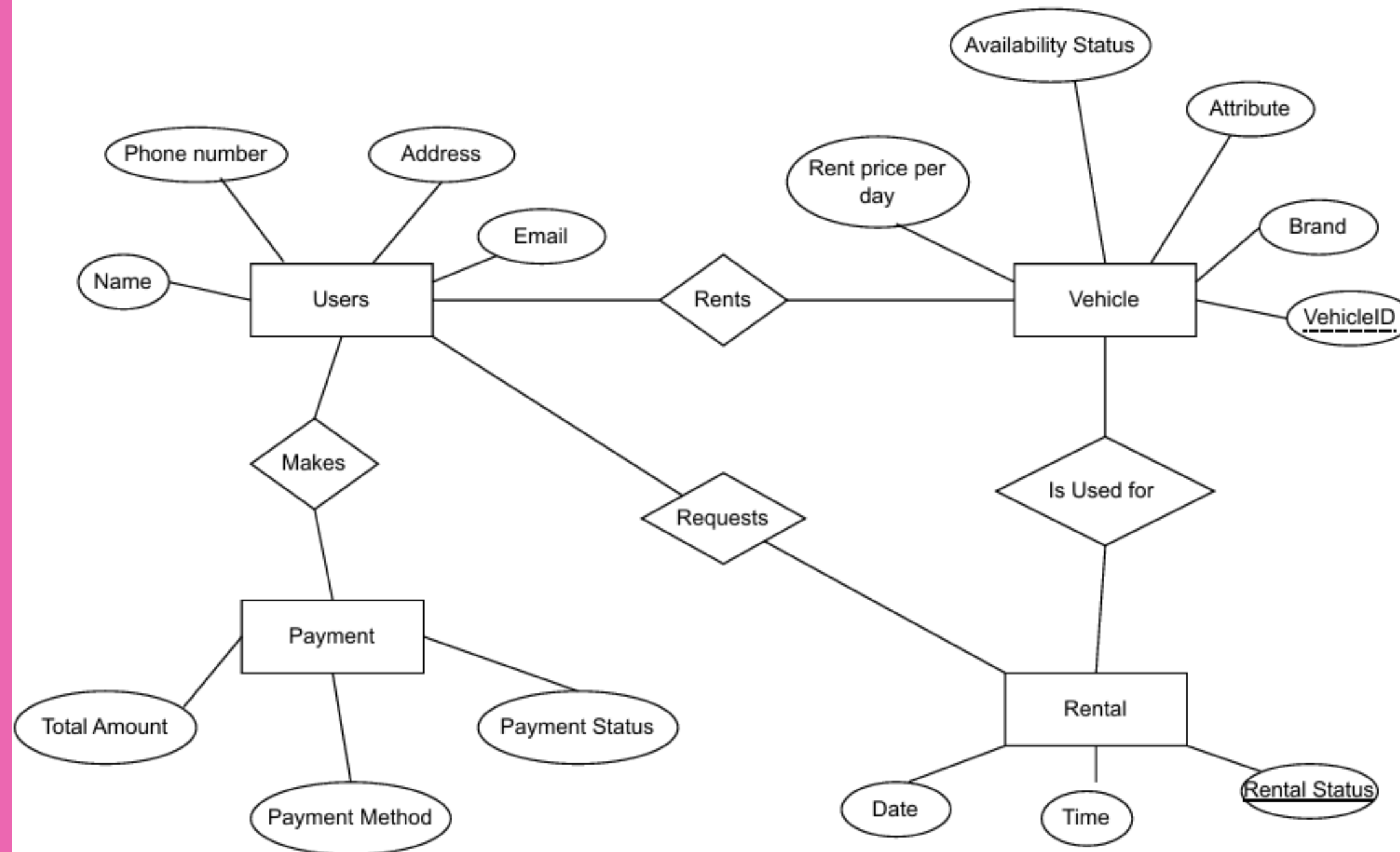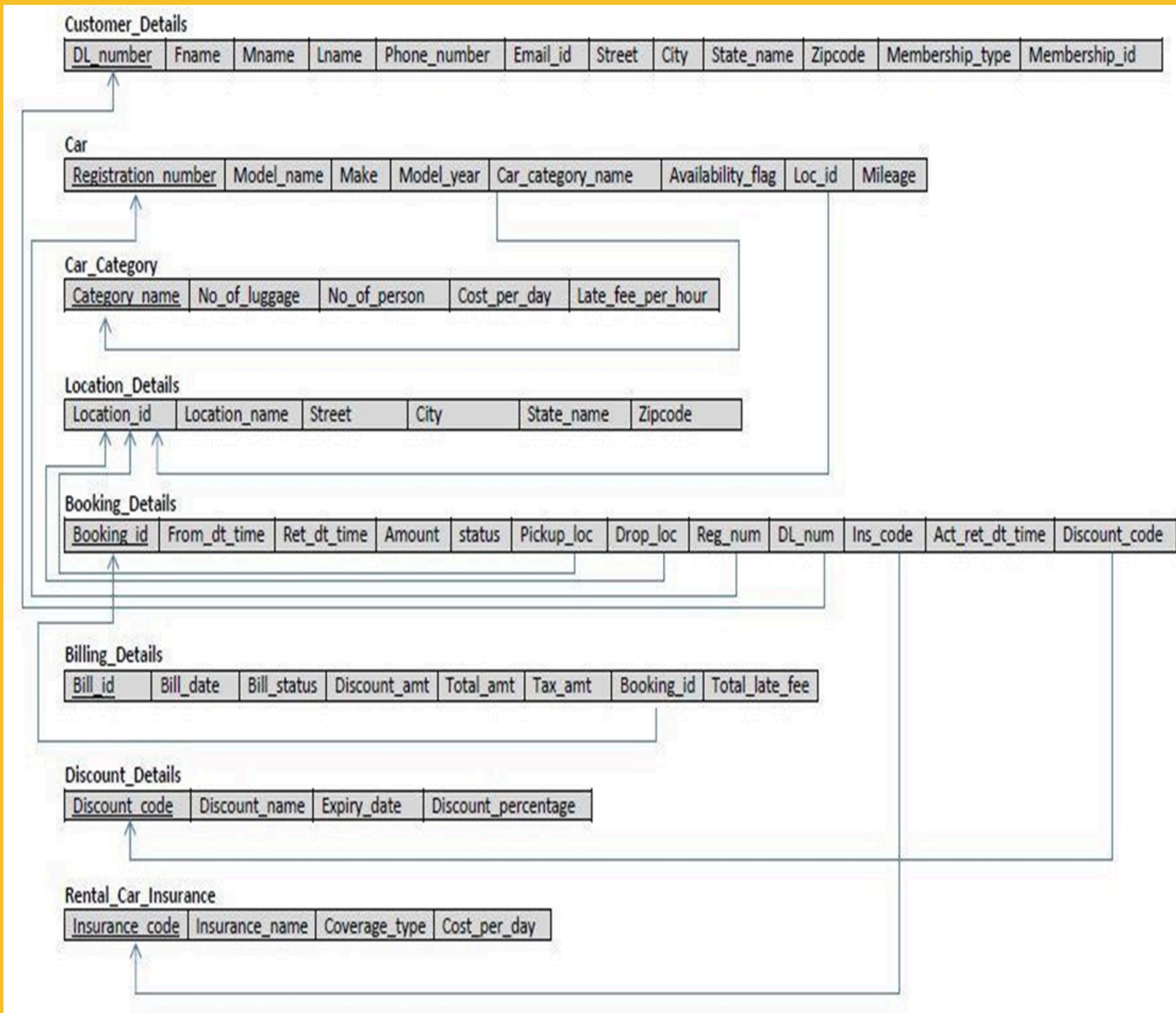
OUR SOLUTION

✓ A digital platform where users can browse, book, and pay securely.
✓ Real-time inventory updates to track available vehicles.
✓ Automated booking confirmation with structured database management.

ENTITY-RELATIONSHIP DIAGRAM

FINAL RELATIONAL SCHEMA

Customer_Details

DL_number	Fname	Mname	Lname	Phone_number	Email_id	Street	City	State_name	Zipcode	Membership_type	Membership_id

Car

Registration_number	Model_name	Make	Model_year	Car_category_name	Availability_flag	Loc_id	Mileage

Car_Category

Category_name	No_of_luggage	No_of_person	Cost_per_day	Late_fee_per_hour

Location_Details

Location_id	Location_name	Street	City	State_name	Zipcode

Booking_Details

Booking_id	From_dt_time	Ret_dt_time	Amount	status	Pickup_loc	Drop_loc	Reg_num	DL_num	Ins_code	Act_ret_dt_time	Discount_code

Billing_Details

Bill_id	Bill_date	Bill_status	Discount_amt	Total_amt	Tax_amt	Booking_id	Total_late_fee

Discount_Details

Discount_code	Discount_name	Expiry_date	Discount_percentage

Rental_Car_Insurance

Insurance_code	Insurance_name	Coverage_type	Cost_per_day

SOFTWARE & HARDWARE REQUIREMENTS

Software Requirements:
- Frontend: Java (JavaFX for desktop OR JSP/Servlets for web)
- Backend: Java (Spring Boot or Java EE)
- Database: MySQL / PostgreSQL
- Development Tools: IntelliJ IDEA / Eclipse

Hardware Requirements:
- Server: 8GB RAM, 500GB Storage
- Client Devices: Laptops, Mobile Phones
- Internet Connectivity: Required for cloud access

SAMPLE FRONTEND

RIDER-PROVIDER

Welcome to

RIDER-PROVIDER

Email:

Password:

Forgot Password?

Login

Not a member?　**Register**

SYSTEM WORKFLOW

1️⃣ User Registration & Authentication (Login System)

2️⃣ Vehicle Search & Listing (Filters: Type, Price, Location)

3️⃣ Booking System (Select Rental Period, Confirm Booking)

4️⃣ Payment Processing (Online Transactions & Invoices)

5️⃣ Rental History & Reviews (Past Bookings, User Feedback)

THANK YOU FOR LISTENING!