

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



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.

RiderProvider - Login

RiderProvider

User Role

Select Role:

Select

User Information

Full Name

Age

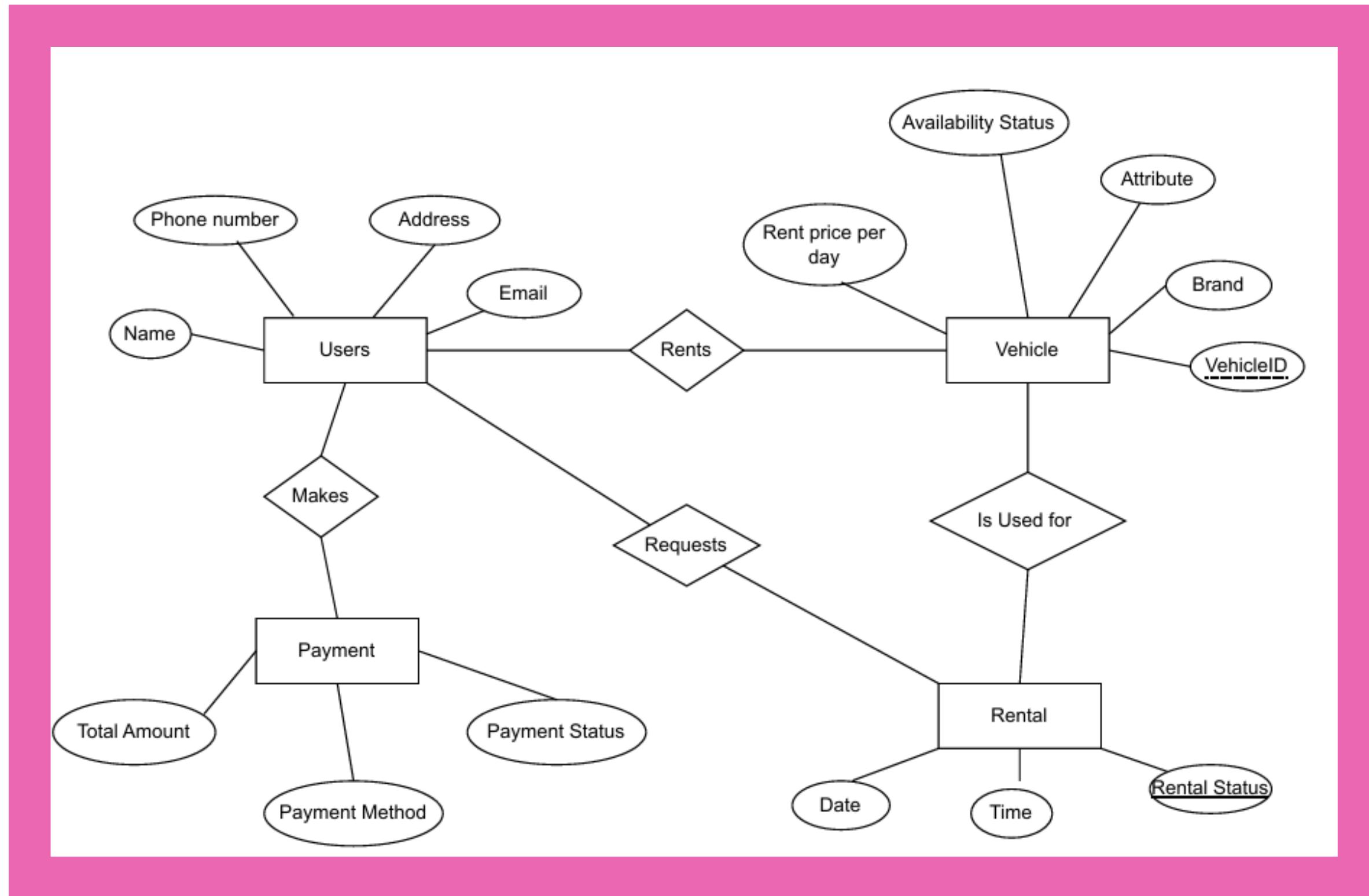
Address

Aadhar Number

Upload Profile Picture

Submit

ENTITY-RELATIONSHIP DIAGRAM



FINAL RELATIONAL SCHEMA



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



OUTPUT:



RiderProvider - Login

RiderProvider

User Role

Select Role:

Select

User Information

Full Name

Age

Address

Aadhar Number

Upload Profile Picture

Submit

OUTPUT:

RiderProvider - Home (Tenant)

RiderProvider

Available Rides

Search Rides

Location: All Locations | Passengers: Any Passengers

Price Range: Any Price | Model Year: Any Year

[Reset](#) [Search](#)

Vehicle Model	Price	Passenger Capacity	Year	Location
Honda City	₹1500/day	4	2019	Chennai
Toyota Innova	₹2200/day	7	2021	Bangalore
Hyundai Verna	₹1800/day	5	2020	Hyderabad

Honda City
Price: ₹1500/day
Passengers: 4
Petrol | Automatic | Insured
[View Details](#) [Book Now](#)

Toyota Innova
Price: ₹2200/day
Passengers: 7
Diesel | Manual | Insured
[View Details](#) [Book Now](#)

Hyundai Verna
Price: ₹1800/day
Passengers: 5
Petrol | Automatic | Insured
[View Details](#) [Book Now](#)

OUTPUT:

RiderProvider - Vehicle Upload

RiderProvider

Upload Your Vehicle

My Profile

Vehicle Details

Location:

Car Condition:

Upload Images:

Insurance Available: Yes

Model Year:

Seats:

Vehicle Type:

Registration Number:

Price/Day:

Vehicle Preview

Vehicle Image Preview

Vehicle Type: Not selected
Condition: Not specified
Location: Not specified
Price/Day: ₹0

Upload Vehicle

DATABASE:



```
35     created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
36   );
37
38 •   SELECT * FROM USERS;
39 •   SELECT * FROM BOOKINGS;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	id	full_name	age	address	aadhar_number	role	profile_picture
▶	1	test	18	test_adr	test_adh	Tenant	NULL
	2	test2	23	test2	test2	Owner	NULL
	3	test3	45	test3	test3	Tenant	NULL
	4	test4	54	test4	test4	Tenant	NULL
	5	xyz	20	xcyz	xyz	Tenant	NULL
	6	Jatin Naik	20	123456	12346	Tenant	NULL
*	7	Jatin Naik	20	Manoranjitar 110	1234567887654321	Tenant	NULL
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

USERS 1 X

Output:

Action Output

#	Time	Action
1	22:39:09	USE riderprovider
2	22:39:11	SELECT * FROM USERS LIMIT 0, 2000

Message
0 row(s) affected
7 row(s) returned

SYSTEM WORKFLOW

- 1 User Registration & Authentication (Login System)
- 2 Vehicle Search & Listing (Filters: Type, Price, Location)
- 3 Booking System (Select Rental Period, Confirm Booking)
- 4 Payment Processing (Online Transactions & Invoices)
- 5 Rental History & Reviews (Past Bookings, User Feedback)



**THANK YOU FOR
LISTENING!**