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PROJECT DOCUMENTATION

Project Name	Vehicle Rental System
Project Batch	4
Platform	Web-app
Front End	Html, CSS , Servlets, JSP
Back End	MySQL Database

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OBJECTIVE:

 The main objective of the Car Rental System is to manage all the details of Customer Bookings and Car Details. It manages all the information about Car Details, Booking, Rent Car and User Information. The Admin is given access to view the list of Cars , see all the customer bookings , see all the users and view the feedback given by customers. The purpose of the project is to build an application program to reduce the manual work for managing the Car, Rent, Booking, Customer. It tracks all the details about the Customer, Rent and Booking of Car.

ABSTRACT:

This Car Rental System project is designed to help the customers to find and book cars easily through an online system. It helps the customers to search for available cars book for a time period and give their feedback. It has an easy to understand interface which helps the customers to check for cars and book them for the period determined.

HARDWARE REQUIREMENT

Client side:

RAM	2-4 GB
Hard disk	10 GB
Processor	2.0 GHz

Server Side:

RAM	2-4 GB
Hard disk	20 GB
Processor	2.0 GHz

SOFTWARE REQUIREMENT

Client side:

Web Browser	**Google, Mozilla Firefox etc.**

Server side:

Web Server	Tomcat server
Database Server	MySql
Other Softwares	Eclipse, Mysql-Workbench , Java

FUNCTIONAL SPECIFICATIONS:

User Specification:

User can view information of available car list, book the car easily, get the car on rent and also give feedback.

Admin can view the list of cars, view all the members and see their bookings also he can view feedback of all customers.

MODULE SPECIFICATION

View Available Cars: It is a system design specially for car rental. The user can view Available cars and user can book for that car.

Booking Car : The user can view Available cars and book for a car. If the car is already booked the user must book another car.

Easily Get the Car on rent : The Customer can easily get the car whenever they need to on the rent with in a determined period.

Give Feedback : The customer will give the feedback to the admin.

Manage Rent: The Admin can able to see all the available car see all the customers and their bookings.

View Feedback: The admin easily view the feedbacks and solve the query.

MODULE SPECIFICATION :

Admin: The admin can able to view all the user and their bookings. Also he could see all the available cars. He could easily view feedbacks of customers and solve the query.

Cars: This helps user to view all the list of cars.

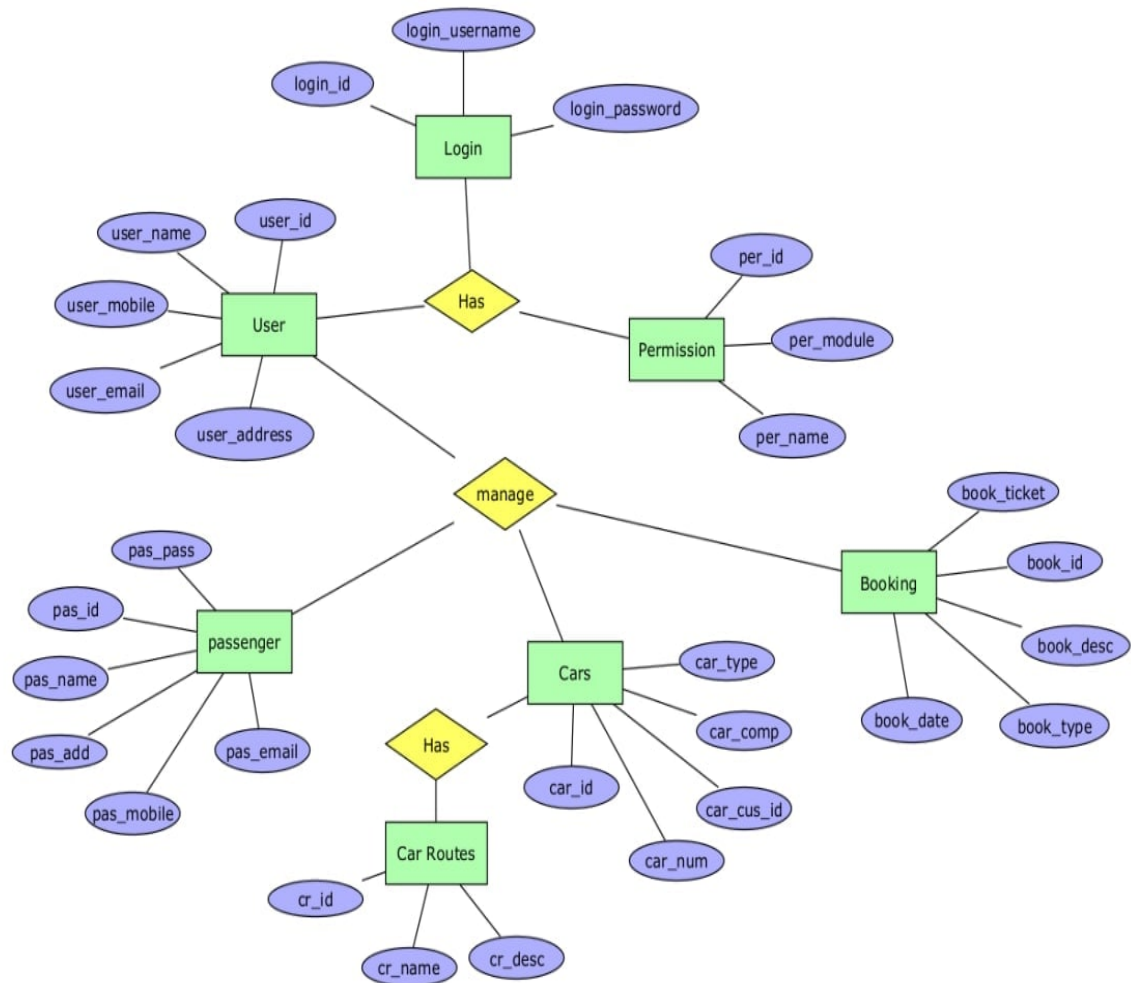Booking: The user can select the available cars and book then for a period of time.

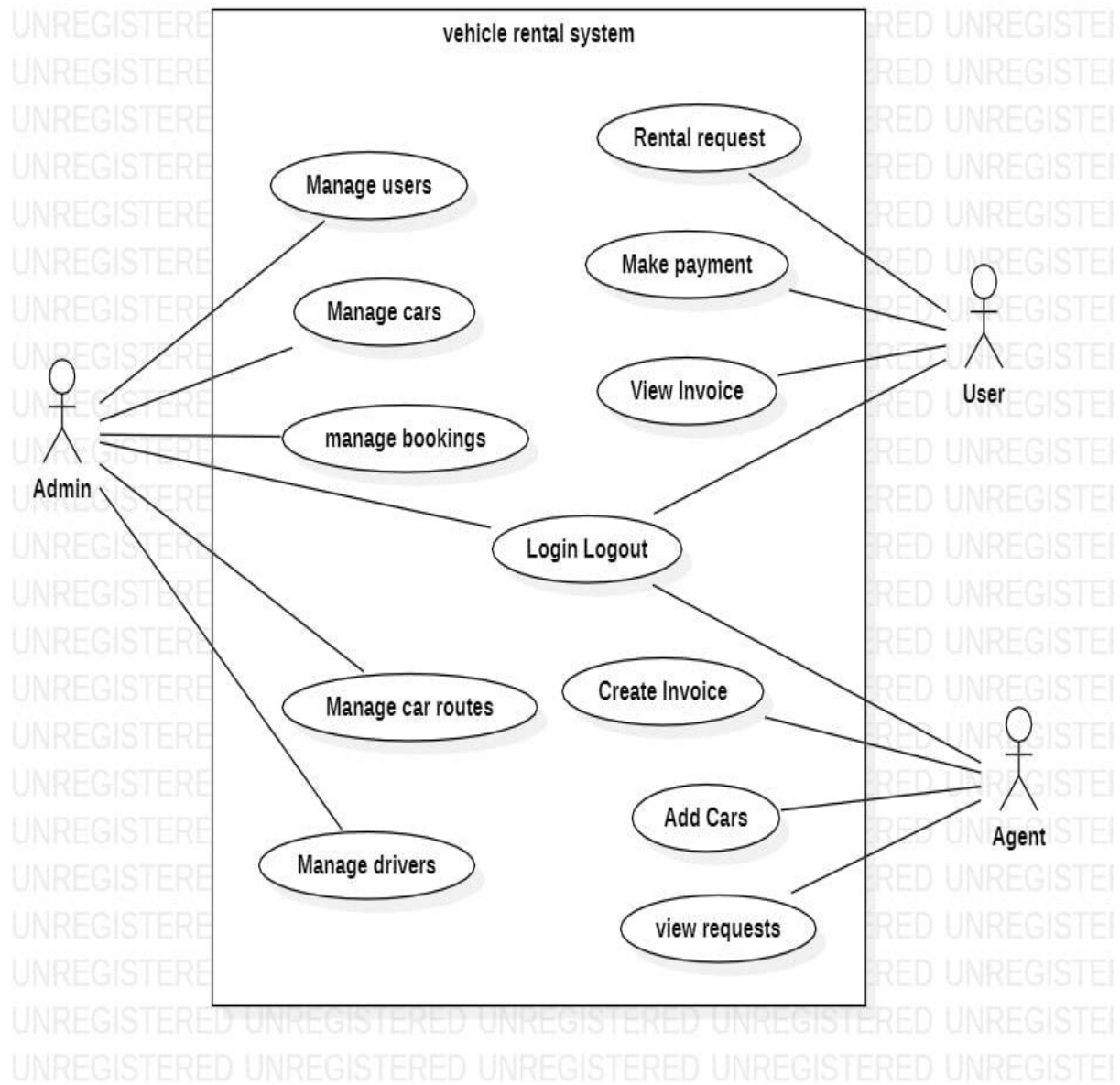My Bookings: This helps user to view his bookings.

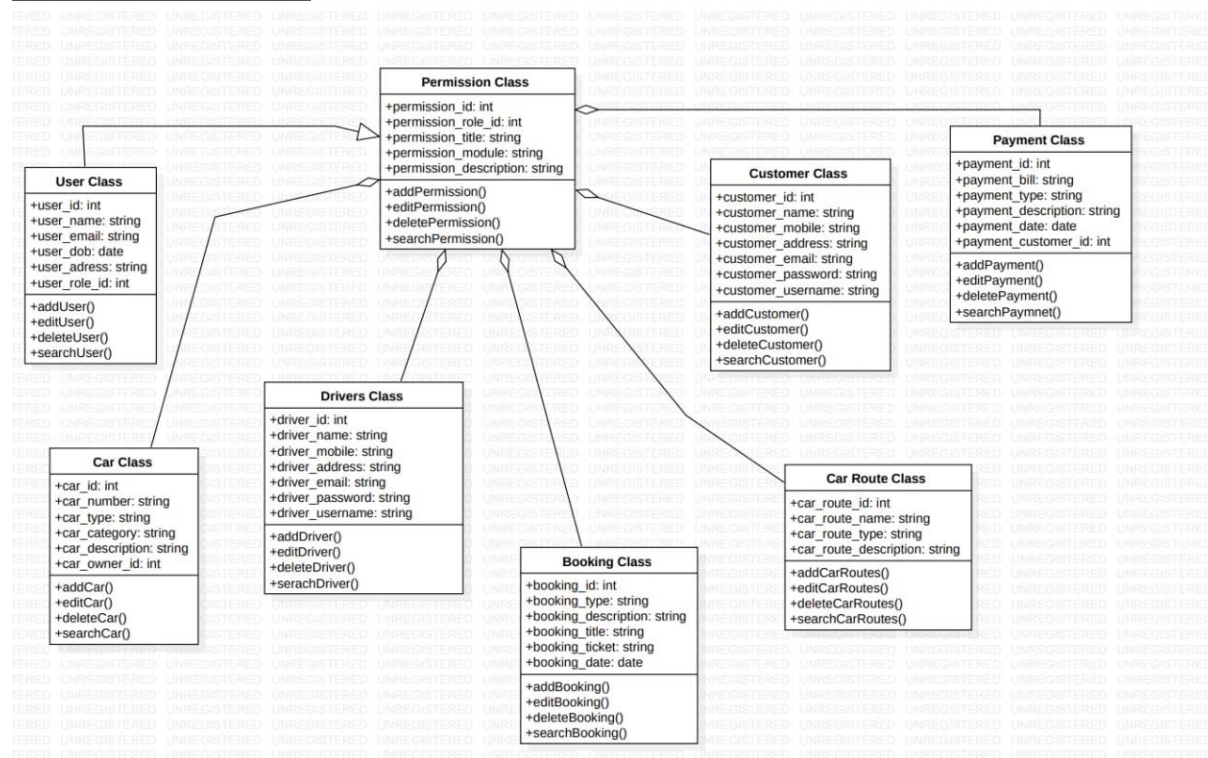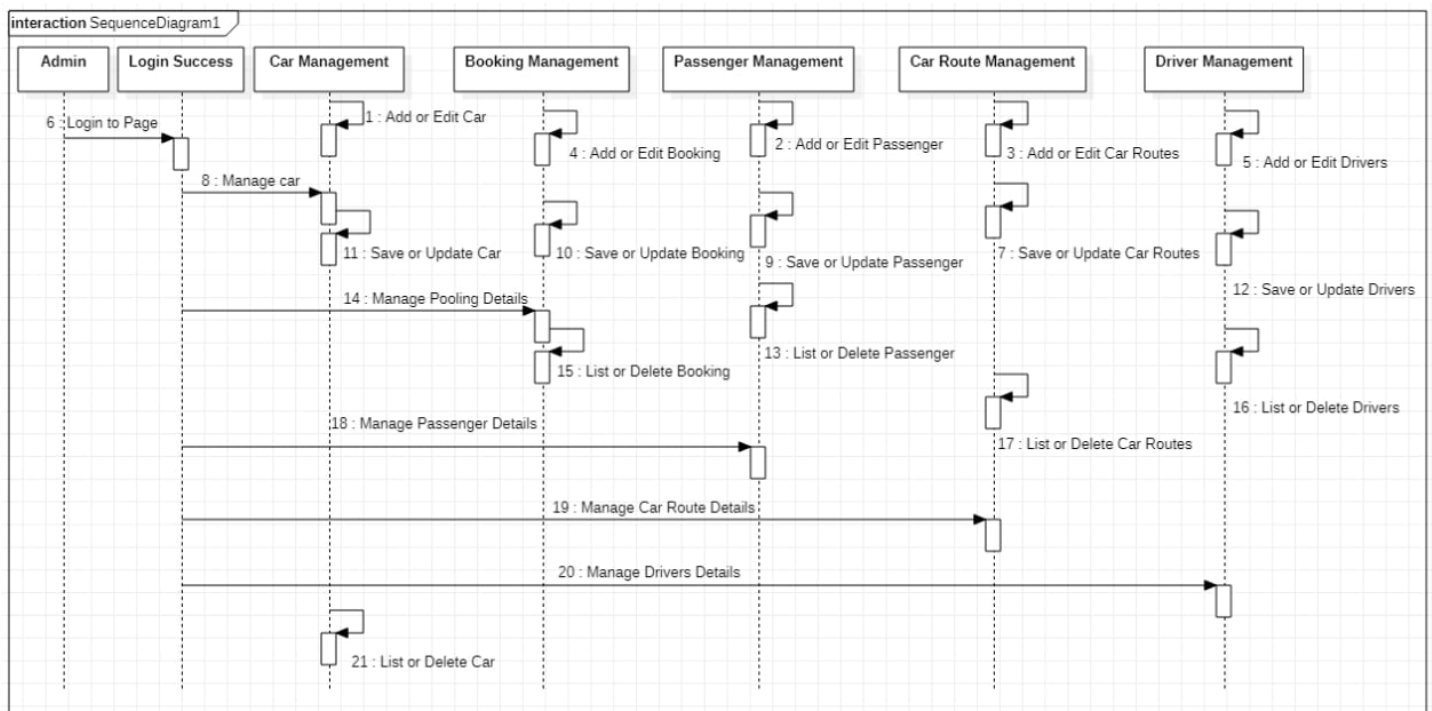Sign In/ Sign Up: This helps user to sign up or sign in to our website

Logout: This helps user to logout from his session.

UML DIAGRAMS:

ER DIAGRAM:

USE CASE DIAGRAM:

CLASS DIAGRAM:

SEQUENCE DIAGRAM:

DATA DICTIONARY:

```
mysql> select * from admin;
+----------+------------+
| admin_id | admin_pswd |
+----------+------------+
| admin1   | admin@123  |
+----------+------------+
1 row in set (0.00 sec)
```

```
mysql> select * from bookedcars;
+----------+------+----------------+---------------+------------------+-----------+---------+------------+------------+
| uname    | id   | name           | numberplate   | seating_capacity | fuel_type | amount  | fromdate   | todate     |
+----------+------+----------------+---------------+------------------+-----------+---------+------------+------------+
| username | id   | car name       | number plate  | seats            | fuel      | amount  | fromdate   | todate     |
| anand    | c8   | Bowler Bulldog | ERS 8579      | 4                | Petrol    | 6000    | 2021-04-20 | 2021-04-25 |
| anand    | c7   | Jeep Compass   | AP 09 YE 6969 | 5                | Petrol    | 1800    | 2021-04-14 | 2021-04-22 |
+----------+------+----------------+---------------+------------------+-----------+---------+------------+------------+
3 rows in set (0.01 sec)
```

```
mysql> select * from cars;
+------+----------------+---------------+------------------+-----------+--------+
| id   | name           | numberplate   | seating_capacity | fuel_type | amount |
+------+----------------+---------------+------------------+-----------+--------+
| id   | Car Name       | Number PLate  | Seats            | Fuel      | Cost   |
| c1   | BMW 5 series   | MH 12 DE 1433 | 5                | Petrol    | 2000   |
| c2   | BMW 7 series   | MH 12 DE 1444 | 5                | Diesel    | 2500   |
| c3   | BMW 3 series   | MH 12 DE 1500 | 5                | Petrol    | 1800   |
| c4   | Mahindra Jeep  | TS 08 EQ 4548 | 5                | Petrol    | 1900   |
| c5   | Mercedes C Class | MH 12 DE 7434 | 5              | Petrol    | 2200   |
| c6   | Audi Q7        | MH 12 DE 9945 | 5                | Petrol    | 2500   |
| c7   | Jeep Compass   | AP 09 YE 6969 | 5                | Petrol    | 1800   |
| c8   | Bowler Bulldog | ERS 8579      | 4                | Petrol    | 6000   |
| c9   | hudson hornet  | s1 HHMD       | 2                | Petrol    | 15000  |
| c10  | Nano           | AP 11 EQ 7979 | 4                | Petrol    | 1000   |
+------+----------------+---------------+------------------+-----------+--------+
11 rows in set (0.04 sec)
```

```
mysql> select * from members;
+------------+------------+-----------------+----------+----------+
| first_name | last_name  | email           | uname    | pass     |
+------------+------------+-----------------+----------+----------+
| FirstName  | LastName   | Email           | Username | Password |
| Anand      | Kathyay    | anand@gmail.com | anand    | 123      |
+------------+------------+-----------------+----------+----------+
2 rows in set (0.00 sec)
```

```
mysql> select * from feedback;
+----------+------------+-------------------------+
| uname    | phn_no     | msg                     |
+----------+------------+-------------------------+
| UserName | Phn No     | Feedback                |
| anand    | 9876543215 | Nice work keep going..! |
+----------+------------+-------------------------+
2 rows in set (0.00 sec)
```

POST IMPLEMENTATION

- The website application is self maintained.
- There is no need provide post implementation support.
- The admin can access add, edit, delete process.

FUTURE ENHANCEMENT

- Add new Interesting surveys