ABSTRACT

The aim of this project is to develop and build a data management system for a vehicle rental company. This allows admin to rent a vehicle that a customer can use. This system improves customer satisfaction while also streamlining vehicle and personnel management.

The Vehicle Rental System app has a user-friendly gui. As a result, users can find it very easy to work with. Admins may use this method to handle customer booking requests, customer testimonials, and customer problems. The details about the vehicle can be entered into the system. Administrator may also edit or remove existing vehicle information.There is no delay in the availability of any vehicle information; vehicle information can be captured quickly and easily whenever it is required.

Customers can also get vehicle rentals via the system. Until signing in, the customer must either build a new account or log in with an existing one. He/she can then book any of the available vehicles, including this one. Both the administrator and the consumer would benefit from this device.

PLAGIARISM SCAN REPORT

SmallSEOTools

PLAGIARISM SCAN REPORT

Words	990	Date	May 15,2021
Characters	6757	Excluded URL	

2%	98%	1	44
Plagiarism	Unique	Plagiarized Sentences	Unique Sentences

Contents

1. INTRODUCTION

1.1 Introduction :

This project was created with the intention of being used by a vehicle rental company that specializes in providing customers with car rentals. Customers can view available vehicles, register, view their profile, and book a vehicle using this online system.

1.2 Reason for the project :

The advent in information technology and the widespread use of the internet has significantly improved various business processes and connectivity between companies (service providers) and their customers, including the car rental industry.

This Vehicle Rental System is developed to provide the following services:

Enhance Business Processes: To be able to use internet technology to project the rental company to the global world instead of limiting their services to their local domain alone, thus increase their return on investment (ROI).

Online Vehicle Reservation: A tools through which customers can reserve available vehicles online prior to their expected pick-up date or time.

Customers registration: A registration portal to hold customers details, monitor their transaction and used same to offer better and improve services to them.

Group bookings: Allows the customer to book space for a group in the case of weddings or corporate meetings (Event management).

1.3 Problem Statement :

      A vehicle rental is a vehicle that can be rented for a fee and used for a certain period of time. Getting a rental vehicle makes it easier for people to get around when they don't have keys to their own vehicle or don't own one at all. A person in need of a vehicle must contact a rental vehicle company and sign a contract for a vehicle.This system increases customer retention and simplify vehicle management.

2. BLOCK DIAGRAM, ER DIAGRAM AND WORKING

2.1 Block Diagram
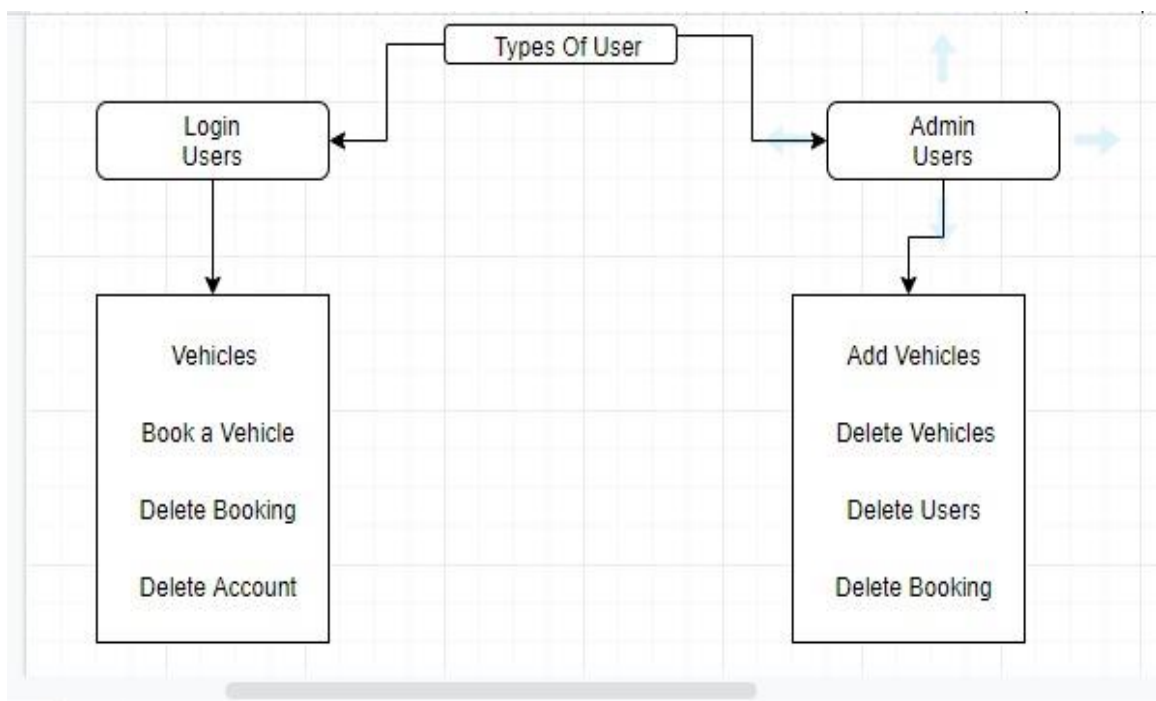
2.2 ER Diagram
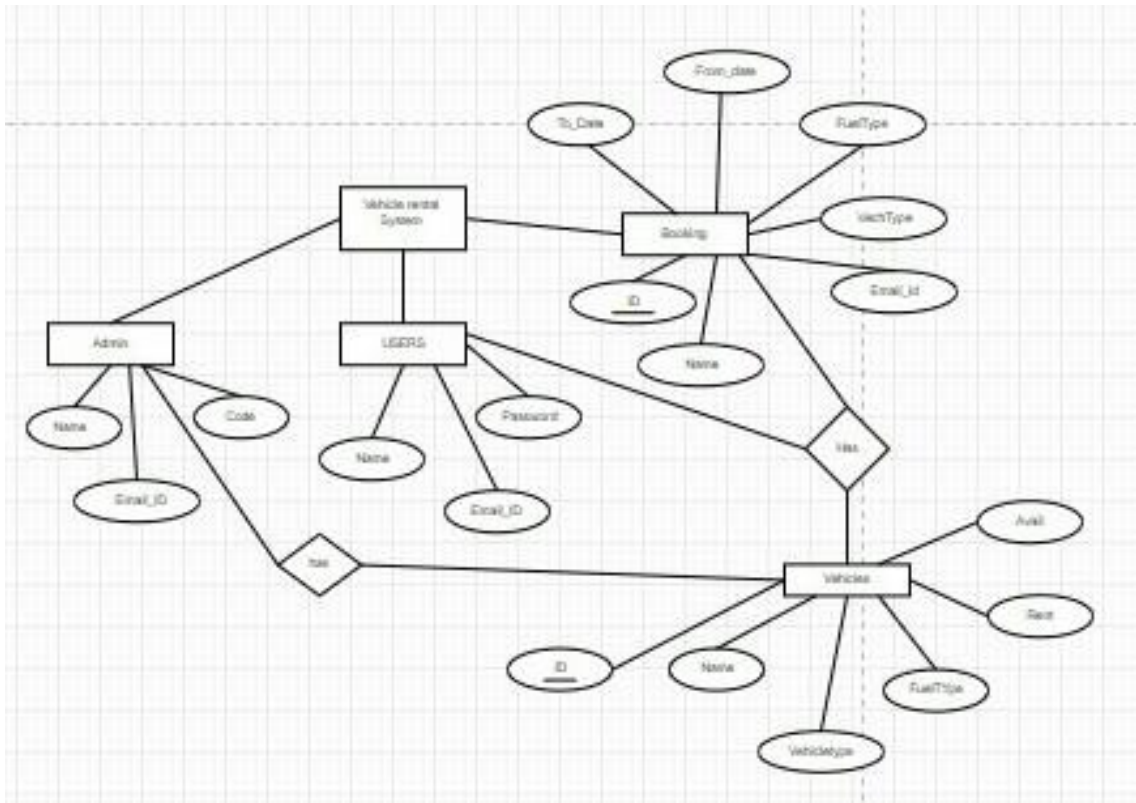
2.3 Working

For User :

When the user users our application for the first time, first page is the homepage.
If the user is new to the system a new account must be in created as a requirement .For creating a new account the user is required to enter Name , E-mail ID , Password.
Then user can sign in using the new account.

After Signing in the next page opens up Booking Page . Booking page asks users for Vehicle ID ,Vehicle Name, Vehicle Type, Fuel Type, From Date, To Date , Email ID.

The Page shows four Buttons:
1. Delete Your Account- User enters their email id to delete Account
2. Delete Your Booking-User enters their email id to delete Booking
3. Insert- Books a vehicle on rent
4. Available Vehicles – Displays all the available Vehicles in Database.

For Admin :

When the Admin uses our application , First page is the Homepage.
For Admin the required credentials are Name , E-mail ID , Password.
After Signing in the next page opens up Admin Page . On Admin page, Admin can enter new Vehicles by entering
Vehicle ID ,Vehicle Name, Vehicle Type, Fuel Type, Avail, Rent .

The Page shows five buttons:
1.Remove Vehicle-Removes vehicles from database
2. Booked Customers- List of Booked Customers
3. Vehicles In Data- Vehicles in database
4. Delete Users- Delete Users
5. Insert – Inserts the vehicle data

3. MODULE DESCRIPTION

In this project basically we have mainly login side and admin side.
On login page it will ask some basic information like email-id,fuel-type and data when to when the car is to be rented. After that the page will check in the database which all cars are available for the same .Once the user say he selected the car the booking page will be corresponded .Once the car got book one bill will be generated and it will pop as soon as booking is done.

Admin side:this page will first ask for admin login which is nothing but details about admin such as email-id,password.Once the admin successfully logged in. The page will correspond to the admin page where admin will have dashboard in which he can perform several operations such as

1.Insertion : On admin page it will ask some attributes for car such as vehicle type, fuel type ,Rent etc.Once detail filled we can insert cars by clicking insert button.

2.Deletion : On admin page it will ask some attributes for car such as Car-id, vehicle type, fuel type ,Rent etc.Once details filled we remove existing car by clicking on Remove button.

3.Also,We can check which vehicles are already existing database,we can delete users,check already booked cars.

Modules used :

Tkinter : We used tkinter for the GUI part.

Mysql : In this project we used CRUD(Create, Retrieve,Update,Delete) operations in Mysql.

Python Mysql connector : To enable python code to access the database we used this to connect the code and database.

4. DETAILS OF HARDWARE AND SOFTWARE

Hardware :

Processor : AMD A6-9200 RADEON R4, 5 COMPUTE CORES 2C + 3G 2.00GHz
Installed RAM : 4.00 GB

Software :

System type : 64-bit operating system,x64-based processor.
Windows version : Windows 10 Home Single Language.
Software : Python3.
Database : MYSQL

Python is a high-level, general-purpose programming language that is interpreted. Python's design philosophy prioritizes code readability, as shown by its extensive use of indentation.

MySQL is an open-source relational database management system. Its name is a combination of "My", the name of co-founder Michael Widenius's daughter, and "SQL", the abbreviation for Structured Query Language.
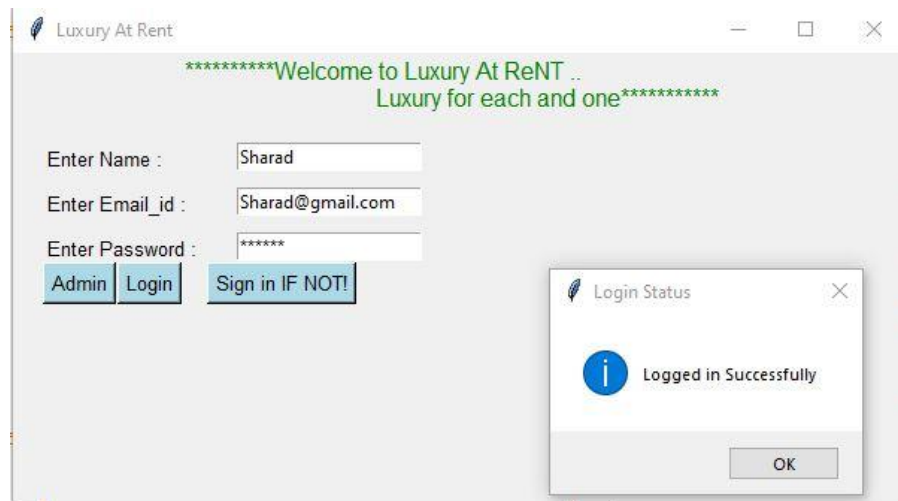
5. CODE

6. RESULTS AND CONCLUSION

Results :

Admin :-

Luxury At Rent

***********Welcome to Luxury At ReNT ..
Luxury for each and one***********

Enter Name : `Sharad`

Enter Email_id : `Sharad@gmail.com`

Enter Password : `******`

[Admin] [Login]   [Sign in IF NOT!]

Login Status ✕

ⓘ Logged in Successfully

[OK]

ADMIN PAGE

[Remove Vehicle]

Enter ID :

Enter Vehicle name:

Enter VehicleType :

Enter Fuel Type :

Enter avail :

Enter RENT :

[Insert]   [Booked Customers]   [Vehicles In Data]   [Delete USERS]

20

User :

Database :

```
mysql> select* from adminlist ;
+--------+------------------+--------+
| name   | email_id         | code   |
+--------+------------------+--------+
| Aakash | Ak@email         | cscode |
| Sharad | Sharad@gmail.com | nobody |
+--------+------------------+--------+
2 rows in set (0.00 sec)

mysql> select* from loginusers ;
+----------------+------------------+----------+
| Name           | Email_id         | Password |
+----------------+------------------+----------+
| Sharad         | Sharad@gmail.com | 1234     |
| Nitish         | Nitish@gmail.com | 1234     |
| Vaibhav Kharat | Vaibhav@gmail.com| vaibhav  |
| Manas Mhatre   | Manas@gmail.com  | manas    |
| Sharad Billava | Sharad@gmail.com | 1234     |
+----------------+------------------+----------+
5 rows in set (0.00 sec)

mysql> select* from vehicle ;
+-----+---------------------+-----------------+----------+-------+-------+
| ID  | Vehicle_name        | Vechtype        | fueltype | Rent  | Avail |
+-----+---------------------+-----------------+----------+-------+-------+
| 100 | Mahindra Thar       | JEEP            | Petrol   | 3400  | 0     |
| 101 | Ferrari             | Luxury          | Petrol   | 45000 | 1     |
| 102 | Tesla               | Electric Luxury | Electric | 3500  | 1     |
| 103 | BMW M3              | Luxury Sedan    | Petrol   | 34000 | 1     |
| 104 | Rolls Royce Phantom | Luxury Sedan    | Petrol   | 45000 | 1     |
+-----+---------------------+-----------------+----------+-------+-------+
5 rows in set (0.03 sec)

mysql> select* from booking ;
+-----+---------------+----------+----------+------------+------------+------------------+
| id  | name          | vechtype | fueltype | From_date  | To_date    | Email_id         |
+-----+---------------+----------+----------+------------+------------+------------------+
| 100 | Mahindra Thar | JEEP     | Petrol   | 2021-05-23 | 2021-06-12 | Sharad@gmail.com |
+-----+---------------+----------+----------+------------+------------+------------------+
1 row in set (0.00 sec)
```

CONCLUSION :

In conclusion, the system will be able to serve as a help where these small upcoming companies can make use of it to publish their services in a wide range and also help the company to manage their service more effectively.

On the other hand, it will enable customers to freely make their desire choice more freely and interactively.

7. REFERENCE

References : **https://www.w3schools.com/sql/sql_ref_keywords.asp**
https://www.w3schools.com/sql/default.asp
https://likegeeks.com/python-gui-examples-tkinter-tutorial/