Objective

Car rentals rely on Car rental management systems to manage asset collections as well as relationships and information with their customers. Car rental systems help them keep track of the cars and their checkouts.

Car rental systems also involve maintaining the database for entering new cars and recording cars that have been rented with information of the customers included.

Abstract

The project Car Rental Management System has different sections managing the Admin, Employee and Customer Functions:

1) **The admin section can :**
* Change Employee details
* Views customer details.
* Change customer details. ===›› can change customer ID , customer username , customer address, customer mobile number , delete a customer detail..
* Can register new employee.

2) **The Employee section can:**
*Can Add vehicle details
*Can view vehicle details
*Can change vehicle details ===>> can update vehicle id, name. manufacturing year, price per day, delete vehicle details also.
* Can add and update Rental details(like Date of rent, date of return, rented vehicle's id etc)
*Can view all the Rental details.

3) **The Customer section can:**
* View Information and reviews about the shop.
* Find contact details of the shop.

Packages Used

- Sys - Sys Module
- MySQL connector - mysql.connector
- Pickle(CSV)

Files Generated

About.txt - Stores the information about the rental.

Contact.txt - Stores the contact details for customers to connect with the Rental.

Rentalinfo.csv- Store the rental information(Date of rental/return cost etc)

Methods Used

- home()
- login()
- approval()
- emp_login()
- new_cid()
- update_cid()
- del_cid()
- update_eid()
- del_eid()
- emp_table()
- cus_table()
- new_eid()
- vehicles()
- veh_table()
- Rental_Info()
- add_vehicle()
- update_vehicle()
- del_vehicle()
- Add_Rental_Info()
- about()
- contact()
- exit()
-

Source Code

```
import sys
import mysql.connector as sql
import csv

#connecting sql to python
conn = sql.connect(host='Harshils-MacBook-Pro.local', user='root',
passwd='Ganesh@2019', database='Rent_a_Car')
if conn.is_connected():
    print("Successfully Connected")
c1 = conn.cursor()

print("
**************************************************
")
print("                              *         ----------------------------
-              *                        ")
print("                              **********| WELCOME TO BINOD RENT
CARS|***************                     ")
print("                              *         ----------------------------
-              *                        ")
print("
**************************************************
")




class CAR_RENTAL:

    def login(self):

        password = input("Enter Admin Password to Proceed: ")
        if (password == "comp"):                          #password #can be
changed
            print("Access Granted")
        else:
            print("Access Denied")
            self.login()

    def approval(self):

        x = input("Are you sure you want to proceed? (y/n)")
        if (x == "y"):
            print("Mission Successful")

        else:
            print("Mission Failed")
            self.home()
```

```
    def home(self):    #homepage options  #self in order to call
particular object from many variable

        print("1. Employee Login ")
        print("2. Registrtion(Employee)")
        print("3. Details Of Vehicle")
        print("4. About the shop")
        print("5. Contact Details")
        print("6. Exit")

        choice = int(input("Enter your choice: "))

        if (choice == 1):
            self.login()
            self.emp_login()

        if (choice == 2):
            self.login()
            self.new_eid()

        if (choice == 3):
            self.login()
            self.vehicles()

        if (choice == 4):
            self.about()

        if (choice == 5):
            self.contact()

        if (choice == 6):
            self.exit()

        else:
            print("Please select a Valid Input(1-6).")
            print("
********************THANKYOU**********************
")
            self.home()



    def emp_login(self):
#employee login and access to features

        print("1. Create New Customer ID")
        print("2. Update Customer Info")
        print("3. Delete Customer Info")
        print("4. Update Employee Info")
        print("5. Delete Employee Info")
        print("6. View Employee list")
        print("7. View Customer list")
        print("8. Back")
```

```
        choice1 = int(input("Enter your choice: "))

        if (choice1 == 1):
            self.login()
            self.new_cid()

        if (choice1 == 2):
            self.login()
            self.update_cid()

        if (choice1 == 3):
            self.login()
            self.del_cid()

        if (choice1 == 4):
            self.login()
            self.update_eid()

        if (choice1 == 5):
            self.login()
            self.del_eid()

        if (choice1 == 6):
            self.login()
            self.emp_table()

        if (choice1 == 7):
            self.login()
            self.cus_table()

        if (choice1 == 8):
            self.home()

        else:
            print("Wrong Input")

            self.home()

    def new_cid(self):

        Cus_ID = int(input("Enter Customer ID: "))
        Cus_Name = input("Enter Customer Name: ")
        Cus_Address = input("Enter Customer Address: ")
        Cus_Number = input("Enter Customer Contact: ")
        Cus_Gender = input("Enter Customer Gender: ")
        Support_Emp_ID = input("Enter ID of Support Staff: ")

        print("\n")
        print("C_ID:", Cus_ID)
        print("C_NAME:", Cus_Name)
        print("C_ADDRESS:", Cus_Address)
        print("C_CONTACT:", Cus_Number)
        print("C_GENDER:", Cus_Gender)
        print("SUPPORT_E_ID:", Support_Emp_ID)
```

```
        print("\n")

        self.approval()

        c1.execute("INSERT INTO CUSTOMERS VALUES(%s, %s, %s, %s, %s, %s)",
                   (Cus_ID, Cus_Name, Cus_Address, Cus_Number, Cus_Gender,
Support_Emp_ID))
        conn.commit()

        print("Customer Info Successfully Added!")
        print("\n")
        print("What do you want to do?")
        print("1. Create another customer ID")
        print("2. Back")
        print("\n")

        c = int(input("Enter your choice: "))

        if (c == 1):
            print("-----------------------------------------------------
")
            self.new_cid()

        if (c == 2):
            print("-----------------------------------------------------
")
            self.emp_login()

    def update_cid(self): #customer id updation

        Cus_ID= int(input("Enter the ID of Customer to be updated: "))

        c1.execute("SELECT * FROM CUSTOMERS WHERE Cus_ID=" + str(Cus_ID))
        customer = c1.fetchall()
        for row in customer:
            print(row)

        print("What do you want to update?")
        print("\n")
        print("1. Name")
        print("2. Address")
        print("3. Contact")
        print("4. Gender")
        print("5. Support Employee ID")
        print("6. All of the above")
        print("7. Go back")

        ch = int(input("Enter Your Choice: "))

        if (ch == 1):

            C_Name = input("Enter Updated Customer Name: ")
            print("\n")
            print("Updated Cus_Name:", C_Name)
```

```
            print("\n")

            self.approval()

            p1 = "UPDATE CUSTOMERS SET Cus_Name=%s WHERE Cus_ID=%s"
            p2 = (C01_Name, Cus_ID)
            c1.execute(p1, p2)
            conn.commit()

            print("Customer Info Updated Successfully!")
            print("\n")
            print("What do you want to do?")
            print("1. Update again/further")
            print("2. Back")

            c2 = int(input("Enter your choice: "))

            if (c2 == 1):
                print("-------------------------------------------------
---")
                self.update_cid()

            if (c2 == 2):
                print("-------------------------------------------------
---")
                self.emp_login()

        if (ch == 2):

            Cus_Address = input("Enter Updated Customer Address: ")
            print("\n")
            print("Updated Cus_ADDRESS:", Cus_Address)
            print("\n")

            self.approval()

            q1 = "UPDATE CUSTOMERS SET Cus_Address=%s WHERE Cus_ID=%s"
            q2 = (Cus_Address, Cus_ID)
            c1.execute(q1, q2)
            conn.commit()

            print("Customer Info Updated Successfully!")
            print("\n")
            print("What do you want to do?")
            print("1. Update again/further")
            print("2. Back")

            c2 = int(input("Enter your choice: "))

            if (c2 == 1):
                print("-------------------------------------------------
---")
                self.update_cid()
```

```
            if (c2 == 2):
                print("-------------------------------------------------
---")
                self.emp_login()

        if (ch == 3):

            Cus_Number = input("Enter Updated Customer Contact: ")
            print("\n")
            print("Updated Cus_Number:", Cus_Number)
            print("\n")

            self.approval()

            r1 = "UPDATE CUSTOMERS SET Cus_Number=%s WHERE Cus_ID=%s"
            r2 = (Cus_Number, Cus_ID)
            c1.execute(r1, r2)
            conn.commit()

            print("Customer Info Updated Successfully!")

            print("\n")
            print("What do you want to do?")
            print("1. Update again/further")
            print("2. Back")

            c2 = int(input("Enter your choice: "))

            if (c2 == 1):
                print("-------------------------------------------------
---")
                self.update_cid()

            if (c2 == 2):
                print("-------------------------------------------------
---")
                self.emp_login()

        if (ch == 4):

            Cus_Gender = input("Enter Updated Customer Gender: ")
            print("\n")
            print("Updated Cus_Gender:", Cus_Gender)
            print("\n")

            self.approval()

            s1 = "UPDATE CUSTOMERS SET Cus_Gender=%s WHERE Cus_ID=%s"
            s2 = (C_Gender, Cus_ID)
            c1.execute(s1, s2)
            conn.commit()

            print("Customer Info Updated Successfully!")
```

```
            print("\n")
            print("What do you want to do?")
            print("1. Update again/further")
            print("2. Back")

            c2 = int(input("Enter your choice: "))

            if (c2 == 1):
                print("-----------------------------------------------------
---")
                self.update_cid()

            if (c2 == 2):
                print("-----------------------------------------------------
---")
                self.emp_login()

        if (ch == 5):

            Support_Emp_ID = input("Enter Updated ID of Support Staff: ")
            print("\n")
            print("Updated SUPPORT_Emp_ID:", Support_Emp_ID)
            print("\n")

            self.approval()

            t1 = "UPDATE CUSTOMERS SET Support_Emp_ID=%s WHERE Cus_ID=%s"
            t2 = (Support_Emp_ID, Cus_ID1)
            c1.execute(t1, t2)
            conn.commit()

            print("Customer Info Updated Successfully!")

            print("\n")
            print("What do you want to do?")
            print("1. Update again/further")
            print("2. Back")

            c2 = int(input("Enter your choice: "))

            if (c2 == 1):
                print("-----------------------------------------------------
---")
                self.update_cid()

            if (c2 == 2):
                print("-----------------------------------------------------
---")
                self.emp_login()

        if (ch == 6):

            Cus_Name = input("Enter Updated Customer Name: ")
            Cus_Address = input("Enter Updated Customer Address: ")
```

```
            Cus_Number = input("Enter Updated Customer Contact: ")
            Cus_Gender = input("Enter Updated Customer Gender: ")
            Support_Emp_ID= input("Enter Updated ID of Support Staff: ")

            print("\n")
            print("Customer ID to be updated:", Cus_ID)
            print("Updated C_NAME:", Cus_Name)
            print("Updated C_ADDRESS:", Cus_Address)
            print("Updated C_CONTACT:", Cus_Number)
            print("Updated C_GENDER:", Cus_Gender)
            print("Updated SUPPORT_E_ID:", Support_Emp_ID)
            print("\n")

            self.approval()

            p1 = "UPDATE CUSTOMERS SET Cus_Name=%s WHERE Cus_ID=%s"
            p2 = (Cus_Name, Cus_ID)
            c1.execute(p1, p2)
            q1 = "UPDATE CUSTOMERS SET Cus_Address=%s WHERE Cus_ID=%s"
            q2 = (Cus_Address, Cus_ID)
            c1.execute(q1, q2)
            r1 = "UPDATE CUSTOMERS SET Cus_Number=%s WHERE Cus_ID=%s"
            r2 = (Cus_Number, Cus_ID)
            c1.execute(r1, r2)
            s1 = "UPDATE CUSTOMERS SET C_Gender=%s WHERE Cus_ID=%s"
            s2 = (Cus_Gender, Cus_ID)
            c1.execute(s1, s2)
            t1 = "UPDATE CUSTOMERS SET Support_Emp_ID=%s WHERE Cus_ID=%s"
            t2 = (Support_Emp_ID, Cus_ID)
            c1.execute(t1, t2)

            conn.commit()

            print("Customer Info Updated Successfully!")

            print("\n")
            print("What do you want to do?")
            print("1. Update again/further")
            print("2. Back")

            c2 = int(input("Enter your choice: "))

            if (c2 == 1):
                print("-------------------------------------------------
---")
                self.update_cid()

            if (c2 == 2):
                print("-------------------------------------------------
---")
                self.emp_login()

        if (ch == 7):
            self.emp_login()
```

```
        else:
            print("Wrong Input")
            self.update_cid()

    def del_cid(self):

        delete = int(input("Enter Customer ID to be deleted: "))

        c1.execute("SELECT * FROM CUSTOMERS WHERE Cus_ID=" + str(delete))

        employee = c1.fetchall()
        for row in employee:
            print(row)

        self.approval()

        c1.execute("DELETE FROM CUSTOMERS WHERE Cus_ID=" + str(delete))
        conn.commit()

        print("Customer Info Deleted Successfully!")

        print("\n")
        print("What do you want to do?")
        print("1. Delete another one")
        print("2. Back")

        c2 = int(input("Enter your choice: "))

        if (c2 == 1):
            print("------------------------------------------------------------
")
            self.del_cid()

        if (c2 == 2):
            print("------------------------------------------------------------
")
            self.emp_login()

    def update_eid(self):

        E_ID1 = int(input("Enter Employee ID to be updated: "))

        c1.execute("SELECT * FROM EMPLOYEES WHERE Emp_ID=" + str(E_ID1))
        customer = c1.fetchall()
        for row in customer:
            print(row)

        print("What do you want to update?")
        print("\n")
        print("1. Name")
        print("2. Address")
        print("3. Contact")
        print("4. Gender")
```

```
        print("5. Username")
        print("6. Password")
        print("7. All of the above")
        print("8. Go back")

        ch1 = int(input("Enter your choice: "))

        if (ch1 == 1):

            Emp_Name = input("Enter Updated Employee Name: ")
            print("\n")
            print("Updated E_NAME:", Emp_Name)
            print("\n")

            self.approval()

            a1 = "UPDATE EMPLOYEES SET Emp_Name=%s WHERE Emp_ID=%s"
            a2 = (Emp_Name, Emp_ID)
            c1.execute(a1, a2)
            conn.commit()

            print("Employee Info Updated Successfully!")

            print("\n")
            print("What do you want to do?")
            print("1. Update again/further")
            print("2. Back")

            c2 = int(input("Enter your choice: "))

            if (c2 == 1):
                print("\t\t-----------------------------------------------
-------\t\t")
                self.update_eid()

            if (c2 == 2):
                print("\t\t-----------------------------------------------
-------\t\t")
                self.emp_login()

        if (ch1 == 2):

            Emp_Address = input("Enter Updated Employee Address: ")
            print("\n")
            print("Updated E_ADDRESS:", Emp_Address)
            print("\n")

            self.approval()

            b1 = "UPDATE EMPLOYEES SET Emp_Address=%s WHERE Emp_ID=%s"
            b2 = (Emp_Address, Emp_ID)
            c1.execute(b1, b2)
            conn.commit()
```

```
            print("Employee Info Updated Successfully!")

            print("\n")
            print("What do you want to do?")
            print("1. Update again/further")
            print("2. Back")

            c2 = int(input("Enter your choice: "))

            if (c2 == 1):
                print("-----------------------------------------------------
---")
                self.update_eid()

            if (c2 == 2):
                print("-----------------------------------------------------
---")
                self.emp_login()

        if (ch1 == 3):

            Emp_Contact = input("Enter Updated Employee Contact: ")
            print("\n")
            print("Updated Emp_Contact:", Emp_Contact)
            print("\n")

            self.approval()

            d1 = "UPDATE EMPLOYEES SET Emp_Contact=%sWHERE Emp_ID=%s"
            d2 = (Emp_Contact, Emp_ID)
            c1.execute(d1, d2)
            conn.commit()

            print("Employee Info Updated Successfully!")

            print("\n")
            print("What do you want to do?")
            print("1. Update again/further")
            print("2. Back")

            c2 = int(input("Enter your choice: "))

            if (c2 == 1):
                print("-----------------------------------------------------
---")
                self.update_eid()

            if (c2 == 2):
                print("-----------------------------------------------------
---")
                self.emp_login()

        if (ch1 == 4):
```

```
            Emp_Gender = input("Enter Updated Employee Gender: ")
            print("\n")
            print("Updated Emp_Gender:", Emp_Gender)
            print("\n")

            self.approval()

            e1 = "UPDATE EMPLOYEES SET Emp_Gender=%sWHERE Emp_ID=%s"
            e2 = (Emp_Gender, Emp_ID)
            c1.execute(e1, e2)
            conn.commit()

            print("Employee Info Updated Successfully!")

            print("\n")
            print("What do you want to do?")
            print("1. Update again/further")
            print("2. Back")

            c2 = int(input("Enter your choice: "))

            if (c2 == 1):
                print("\t\t-----------------------------------------------
-------\t\t")
                self.update_eid()

            if (c2 == 2):
                print("\t\t-----------------------------------------------
-------\t\t")
                self.emp_login()

        if (ch1 == 5):

            USERNAME1 = input("Enter Updated Username: ")
            print("\n")
            print("Updated USERNAME:", USERNAME1)
            print("\n")

            self.approval()

            f1 = "UPDATE EMPLOYEES SET USERNAME=%s WHERE Emp_ID=%s"
            f2 = (USERNAME1, Emp_ID)
            c1.execute(f1, f2)
            conn.commit()

            print("Employee Info Updated Successfully!")

            print("\n")
            print("What do you want to do?")
            print("1. Update again/further")
            print("2. Back")

            c2 = int(input("Enter your choice: "))
```

```
            if (c2 == 1):
                print("-------------------------------------------------
---")
                self.update_eid()

            if (c2 == 2):
                print("-------------------------------------------------
---")
                self.emp_login()

        if (ch1 == 6):

            PASSWORD1 = input("Enter Updated Password: ")
            print("\n")
            print("Updated PASSWORD:", PASSWORD1)
            print("\n")

            self.approval()

            g1 = "UPDATE EMPLOYEES SET PASSWORD=%sWHERE Emp_ID=%s"
            g2 = (PASSWORD1, Emp_ID)
            c1.execute(g1, g2)
            conn.commit()

            print("Employee Info Updated Successfully!")

            print("\n")
            print("What do you want to do?")
            print("1. Update again/further")
            print("2. Back")

            c2 = int(input("Enter your choice: "))

            if (c2 == 1):
                print("-------------------------------------------------
---")
                self.update_eid()

            if (c2 == 2):
                print("-------------------------------------------------
---")
                self.emp_login()

        if (ch1 == 7):

            Emp_Name = input("Enter Updated Employee Name: ")
            Emo_Address = input("Enter Updated Employee Address: ")
            Emp_Contact = input("Enter Updated Employee Contact: ")
            Emp_Gender = input("Enter Updated Employee Gender: ")
            USERNAME1 = input("Enter Updated Username: ")
            PASSWORD1 = input("Enter Updated Password: ")

            print("\n")
            print("Employee ID to be updated:", Emp_ID)
```

```
            print("Updated E_NAME:", Emp_Name)
            print("Updated E_ADDRESS:", Emp_Address)
            print("Updated E_CONTACT:", Emp_Contact)
            print("Updated E_GENDER:", Emp_Gender)
            print("Updated USERNAME:", USERNAME1)
            print("Updated PASSWORD:", PASSWORD1)
            print("\n")

            self.approval()

            a1 = "UPDATE EMPLOYEES SET Emp_Name=%s WHERE Emp_ID=%s"
            a2 = (Emp_Name, Emp_ID)
            c1.execute(a1, a2)
            b1 = "UPDATE EMPLOYEES SET Emp_Address=%s WHERE Emp_ID=%s"
            b2 = (Emp_Address, Emp_ID)
            c1.execute(b1, b2)
            d1 = "UPDATE EMPLOYEES SET Emp_Contact=%sWHERE Emp_ID=%s"
            d2 = (Emp_Contact, Emp_ID)
            c1.execute(d1, d2)
            e1 = "UPDATE EMPLOYEES SET Emp_Gender=%sWHERE Emp_ID=%s"
            e2 = (Emp_Gender, Emp_ID)
            c1.execute(e1, e2)
            f1 = "UPDATE EMPLOYEES SET USERNAME=%s WHERE Emp_ID=%s"
            f2 = (USERNAME1, Emp_ID1)
            c1.execute(f1, f2)
            g1 = "UPDATE EMPLOYEES SET PASSWORD=%sWHERE Emp_ID=%s"
            g2 = (PASSWORD1, E_ID1)
            c1.execute(g1, g2)

            conn.commit()

            print("Employee Info Updated Successfully!")

            print("\n")
            print("What do you want to do?")
            print("1. Update again/further")
            print("2. Back")

            c2 = int(input("Enter your choice: "))

            if (c2 == 1):
                print("-------------------------------------------------
---")
                self.update_eid()

            if (c2 == 2):
                print("-------------------------------------------------
---")
                self.emp_login()

        if (ch1 == 8):
            self.emp_login()

        else:
```

```
            print("Wrong Input")
            self.update_eid()

    def del_eid(self):

        ID = int(input("Enter the Emp_ID to be deleted: "))

        c1.execute("SELECT * FROM EMPLOYEES WHERE Emp_ID=" + str(ID))
        employee = c1.fetchall()
        for row in employee:
            print(row)

        self.approval()

        c1.execute("DELETE FROM EMPLOYEES WHERE Emp_ID=" + str(ID))
        conn.commit()

        print("Employee Info Deleted Successfully!")

        print("\n")
        print("What do you want to do?")
        print("1. Delete another one")
        print("2. Back")

        c2 = int(input("Enter your choice: "))

        if (c2 == 1):
            print("-------------------------------------------------------
")
            self.del_eid()

        if (c2 == 2):
            print("-------------------------------------------------------
")
            self.emp_login()

    def emp_table(self):

        c1.execute("SELECT * FROM EMPLOYEES")
        e_table = c1.fetchall()
        for e_row in e_table:
            print(e_row)

        print("-----------------------------------------------------")

        self.emp_login()

    def cus_table(self):

        c1.execute("SELECT * FROM CUSTOMERS")
        c_table = c1.fetchall()
        for c_row in c_table:
            print(c_row)
```

```
        print("-------------------------------------------------------")

        self.emp_login()

    def new_eid(self):

        Emp_ID = int(input("Enter Employee ID: "))
        Emp_Name = input("Enter Employee Name: ")
        Emp_Address= input("Enter Employee Address: ")
        Emp_Contact = input("Enter Employee Contact: ")
        Emp_Gender = input("Enter Employee Gender: ")
        USERNAME = input("Enter Username: ")
        PASSWORD = input("Enter Password: ")

        print("\n")
        print("E_ID:", Emp_ID)
        print("E_NAME:", Emp_Name)
        print("E_ADDRESS:", Emp_Address)
        print("E_CONTACT:", Emp_Contact)
        print("E_GENDER:", Emp_Gender)
        print("USERNAME:", USERNAME)
        print("Password:", PASSWORD)
        print("\n")

        self.approval()

        c1.execute("INSERT INTO EMPLOYEES VALUES(%s, %s, %s, %s, %s, %s,
%s)",
                   (Emp_ID, Emp_Name, Emp_Address, Emp_Contact,
Emp_Gender, USERNAME, PASSWORD))
        conn.commit()

        print("Employee Info Successfully Added!")
        print("\n")
        print("What do you want to do?")
        print("1. Create another employee ID")
        print("2. Back")
        print("\n")

        c = int(input("Enter your choice: "))

        if (c == 1):
            print("-------------------------------------------------------
")
            self.new_eid()

        if (c == 2):
            print("-------------------------------------------------------
")
            self.home()

    def vehicles(self):

        print("1. View Vehicle Details")
```

```
        print("2. View Rental Details")
        print("3. Add vehicle info")
        print("4. Update vehicle info")
        print("5. Delete vehicle info")
        print("6. Add Rental Detail")
        print("7. Back")

        choice3 = int(input("Enter your choice: "))

        if (choice3 == 1):
            self.veh_table()

        if (choice3 == 2):
            self.Rental_Info()

        if (choice3 == 3):
            self.add_vehicle()

        if (choice3 == 4):
            self.update_vehicle()

        if (choice3 == 5):
            self.del_vehicle()

        if (choice3 == 6):
            self.Add_Rental_Info()

        if (choice3 == 7):
            print("------------------------------------------------------
")
            self.home()

        else:
            print("Wrong Input")
            print("------------------------------------------------------
")
            self.vehicles()

    def veh_table(self):

        self.login()

        c1.execute("SELECT * FROM VEHICLES")
        v_table = c1.fetchall()
        for v_row in v_table:
            print(v_row)

        print("-----------------------------------------------------")

        self.vehicles()

    def Add_Rental_Info(self):
        f = open('Rentalinfo.csv', 'a', newline="")
        f1= csv.writer(f)
```

```
        while True:
            Vno = int(input("Enter vehicle no: "))
            Vname = input("Enter vehicle name: ")
            Ppd = int(input("Enter price per day of vehicle: "))
            RD = input("Enter Date_Of_Rental(yyyy-mm-dd): ")
            RED = input("Enter Date_Of_Return(yyyy-mm-dd): ")
            Td = int(input("Enter total numbers of days: "))
            CID = input("Enter Customer ID: ")
            TFe = Ppd * Td
            data = [Vno, Vname, Ppd, RD, RED, Td, CID, TFe]
            f1.writerow(data)
            ch = input("Enter more (Y/N)? ")
            if ch in 'Nn':
                break
        f.close()

        print("-------------------------------------------------------")

        self.vehicles()

    def Rental_Info(self):
        f=open('Rentalinfo.csv','r')
        f1=csv.reader(f)
        for i in f1:
            print(i)

        print("-------------------------------------------------------")

        self.vehicles()

    def add_vehicle(self):

        self.login()

        Vehicle_NO = input("Enter Vehicle Number: ")
        Model = input("Enter Vehicle Model: ")
        Driver = input("Enter Driver's Name: ")
        Capacity = input("Enter Vehicle Capacity: ")
        Manufacture_Year = input("Enter Vehicle's Year of Manufacture: ")
        Price_per_Day = input("Enter Vehicle's price/day: ")

        print("\n")
        print("V_NO:", Vehicle_NO)
        print("Model:", Model)
        print("Driver:", Driver)
        print("Capacity:", Capacity)
        print("Manufacture_Year:", Manufacture_Year)
        print("Price_per_Day:", Price_per_Day)
        print("\n")

        self.approval()

        c1.execute("INSERT INTO VEHICLES VALUES(%s, %s, %s, %s, %s, %s)",
```

```
                    (Vehicle_NO, Model, Driver, Capacity, Manufacture_Year,
Price_per_Day))
        conn.commit()

        print("Vehicle Info Added Successfully!")

        print("\n")
        print("What do you want to do?")
        print("1. Add another one")
        print("2. Back")

        c2 = int(input("Enter your choice: "))

        if (c2 == 1):
            print("-----------------------------------------------------------
")
            self.add_vehicle()

        if (c2 == 2):
            print("-----------------------------------------------------------
")
            self.vehicles()

    def update_vehicle(self):

        self.login()

        Vehicle_NO = input("Enter the Vehicle Number to update its info in
single quotations(' '): ")

        c1.execute("SELECT * FROM VEHICLES WHERE Vehicle_NO=" +
str(Vehicle_NO))
        vehicle = c1.fetchall()
        for row in vehicle:
            print(row)

        Vehicle_NO1 = input("Enter the Vehicle Number above without (' '):
")

        print("What do you want to update?")
        print("\n")
        print("1. Model")
        print("2. Driver")
        print("3. Capacity")
        print("4. Year of Manufacture")
        print("5. Price/Day")
        print("6. All of the above")
        print("7. Go back")

        ch2 = int(input("Enter your choice: "))

        if (ch2 == 1):

            Model = input("Enter Updated Vehicle Model: ")
```

```
            print("\n")
            print("Updated Model:", Model)
            print("\n")

            self.approval()

            a3 = "UPDATE VEHICLES SET Model=%s WHERE Vehicle_NO=%s"
            a4 = (Model, Vehicle_NO1)
            c1.execute(a3, a4)
            conn.commit()

            print("Vehicle Info Updated Successfully!")

            print("\n")
            print("What do you want to do?")
            print("1. Update again/further")
            print("2. Back")

            c2 = int(input("Enter your choice: "))

            if (c2 == 1):
                print("-----------------------------------------------------
---")
                self.update_vehicle()

            if (c2 == 2):
                print("-----------------------------------------------------
---")
                self.vehicles()

        if (ch2 == 2):

            Driver4 = input("Enter Updated Driver's Name: ")
            print("\n")
            print("Updated Driver:", Driver4)
            print("\n")

            self.approval()

            b3 = "UPDATE VEHICLES SET Driver=%s WHERE V_NO=%s"
            b4 = (Driver4, Vehicle_NO1)
            c1.execute(b3, b4)
            conn.commit()

            print("Vehicle Info Updated Successfully!")

            print("\n")
            print("What do you want to do?")
            print("1. Update again/further")
            print("2. Back")

            c2 = int(input("Enter your choice: "))

            if (c2 == 1):
```

```
                print("-------------------------------------------------------
---")
                self.update_vehicle()

            if (c2 == 2):
                print("-------------------------------------------------------
---")
                self.vehicles()

        if (ch2 == 3):

            Capacity4 = input("Enter Updated Vehicle Capacity: ")
            print("\n")
            print("Updated Capacity:", Capacity4)
            print("\n")

            self.approval()

            d3 = "UPDATE VEHICLES SET Capacity=%sWHERE Vehicle_NO=%s"
            d4 = (Capacity4, Vehicle_NO1)
            c1.execute(d3, d4)
            conn.commit()

            print("Vehicle Info Updated Successfully!")

            print("\n")
            print("What do you want to do?")
            print("1. Update again/further")
            print("2. Back")

            c2 = int(input("Enter your choice: "))

            if (c2 == 1):
                print("-------------------------------------------------------
---")
                self.update_vehicle()

            if (c2 == 2):
                print("-------------------------------------------------------
---")
                self.vehicles()

        if (ch2 == 4):

            Manufacture_Year4 = input("Enter Updated Vehicle's Year of
Manufacture: ")
            print("\n")
            print("Updated Manufacture_Year:", Manufacture_Year4)
            print("\n")

            self.approval()

            e3 = "UPDATE VEHICLES SET Manufacture_Year=%sWHERE
Vehicle_NO=%s"
```

```
            e4 = (Manufacture_Year4, V_NOx)
            c1.execute(e3, e4)
            conn.commit()

            print("Vehicle Info Updated Successfully!")

            print("\n")
            print("What do you want to do?")
            print("1. Update again/further")
            print("2. Back")

            c2 = int(input("Enter your choice: "))

            if (c2 == 1):
                print("-----------------------------------------------------
---")
                self.update_vehicle()

            if (c2 == 2):
                print("-----------------------------------------------------
---")
                self.vehicles()

        if (ch2 == 5):

            Price_per_Day4 = input("Enter Updated Vehicle's Price/Day: ")
            print("\n")
            print("Updated Price_per_Day:", Price_per_Day4)
            print("\n")

            self.approval()

            f3 = "UPDATE VEHICLES SET Price_per_Day=%s WHERE
Vehicle_NO=%s"
            f4 = (Price_per_Day4, Vehicle_NO1)
            c1.execute(f3, f4)
            conn.commit()

            print("Vehicle Info Updated Successfully!")

            print("\n")
            print("What do you want to do?")
            print("1. Update again/further")
            print("2. Back")

            c2 = int(input("Enter your choice: "))

            if (c2 == 1):
                print("-----------------------------------------------------
---")
                self.update_vehicle()

            if (c2 == 2):
```

```
                print("-------------------------------------------------
---")
                self.vehicles()

        if (ch2 == 6):

            Model = input("Enter Updated Vehicle Model: ")
            Driver4 = input("Enter Updated Driver's Name: ")
            Capacity4 = input("Enter Updated Vehicle Capacity: ")
            Manufacture_Year4 = input("Enter Updated Vehicle's Year of
Manufacture: ")
            Price_per_Day4 = input("Enter Updated Vehicle's Price/Day: ")

            print("\n")
            print("Vehicle Number to be updated:", Vehicle_NO1)
            print("Updated Model:", Model)
            print("Updated Driver:", Driver4)
            print("Updated Capacity:", Capacity4)
            print("Updated Manufacture_Year:", Manufacture_Year4)
            print("Updated Price_per_Day:", Price_per_Day4)
            print("\n")

            self.approval()

            a3 = "UPDATE VEHICLES SET Model=%s WHERE V_NO=%s"
            a4 = (Model, Vehicle_NO1)
            c1.execute(a3, a4)
            b3 = "UPDATE VEHICLES SET Driver=%s WHERE V_NO=%s"
            b4 = (Driver4, Vehicle_NO1)
            c1.execute(b3, b4)
            d3 = "UPDATE VEHICLES SET Capacity=%sWHERE V_NO=%s"
            d4 = (Capacity4, Vehicle_NO1)
            c1.execute(d3, d4)
            e3 = "UPDATE VEHICLES SET Manufacture_Year=%sWHERE V_NO=%s"
            e4 = (Manufacture_Year4, Vehicle_NO1)
            c1.execute(e3, e4)
            f3 = "UPDATE VEHICLES SET Price_per_Day=%s WHERE V_NO=%s"
            f4 = (Price_per_Day4, Vehicle_NO1)
            c1.execute(f3, f4)

            conn.commit()

            print("Vehicle Info Updated Successfully!")

            print("\n")
            print("What do you want to do?")
            print("1. Update again/further")
            print("2. Back")

            c2 = int(input("Enter your choice: "))

            if (c2 == 1):
                print("-------------------------------------------------
---")
```

```
                self.update_vehicle()

            if (c2 == 2):
                print("-------------------------------------------------------
---")
                self.vehicles()

        if (ch2 == 7):
            print("-------------------------------------------------------------
")
            self.vehicles()

        else:
            print("Wrong Input")
            print("-------------------------------------------------------------
")
            self.update_vehicle()

    def del_vehicle(self):

        self.login()

        NO = input("Enter the Vehicle_NO to be deleted in single
quotations(' '): ")

        c1.execute("SELECT * FROM VEHICLES WHERE Vehicle_NO=" + str(NO))
        vehicle = c1.fetchall()
        for row in vehicle:
            print(row)

        self.approval()

        c1.execute("DELETE FROM VEHICLES WHERE Vehicle_NO=" + str(NO))
        conn.commit()

        print("Vehicle Info Deleted Successfully!")

        print("\n")
        print("What do you want to do?")
        print("1. Delete another one")
        print("2. Back")

        c2 = int(input("Enter your choice: "))

        if (c2 == 1):
            print("-------------------------------------------------------------
")
            self.del_vehicle()

        if (c2 == 2):
            print("-------------------------------------------------------------
")
            self.vehicles()
```

```
    def contact(self):

        with open("Contact.txt") as f2:
            contact = f2.read()

        print("\n")
        print(contact)
        print("\n")

        print("-------------------------------------------------------")

        self.home()

    def exit(self):

        z = input("Are you sure you want exit? (y/n)")
        if (z == "y"):
            print("Exit Successful")
            print("-------------------------------------------------------
")
            sys.exit()

        else:
            print("Exit Failed")
            print("-------------------------------------------------------
")
            self.home()


var = CAR_RENTAL()
var.home()
var.login()
var.approval()
var.emp_login()
var.new_cid()
var.update_cid()
var.del_cid()
var.update_eid()
var.del_eid()
var.emp_table()
var.cus_table()
var.new_eid()
var.vehicles()
var.veh_table()
var.Rental_Info()
var.add_vehicle()
var.update_vehicle()
var.del_vehicle()
var.Add_Rental_Info()
var.about()
var.contact()
var.exit()
```

Output Screens

Welcome Screen:

```
Successfully Connected
                        ****************************************************
                        *         ----------------------------             *
                        **********| WELCOME TO BINOD RENT CARS|**************
                        *         ----------------------------             *
                        ****************************************************
1. Employee Login
2. Registrtion(Employee)
3. Details Of Vehicle
4. About the shop
5. Contact Details
6. Exit
Enter your choice:
```

Employee Login:

```
Enter your choice: 1
Enter Admin Password to Proceed: comp
Access Granted
1. Create New Customer ID
2. Update Customer Info
3. Delete Customer Info
4. Update Employee Info
5. Delete Employee Info
6. View Employee list
7. View Customer list
8. Back
Enter your choice:
```

New Customer ID:

```
Enter your choice: 1
Enter Admin Password to Proceed: comp
Access Granted
Enter Customer ID: 1
Enter Customer Name: Harshil Varia
Enter Customer Address: xyz
Enter Customer Contact: 9999995222
Enter Customer Gender: Male
Enter ID of Support Staff: 101


C_ID: 1
C_NAME: Harshil Varia
C_ADDRESS: xyz
C_CONTACT: 9999995222
C_GENDER: Male
SUPPORT_E_ID: 101


Are you sure you want to proceed? (y/n)y
Mission Successful
Customer Info Successfully Added!
```

Update Customer Info:

```
Enter your choice: 2
Enter Admin Password to Proceed: comp
Access Granted
Enter the ID of Customer to be updated: 1
(1, 'Harshil Varia', 'xyz', Decimal('9999995222'), 'Male', 101)
What do you want to update?


1. Name
2. Address
3. Contact
4. Gender
5. Support Employee ID
6. All of the above
7. Go back
Enter Your Choice: 1
Enter Updated Customer Name: Gon Freegz


Updated Cus_Name: Gon Freegz


Are you sure you want to proceed? (y/n)y
Mission Successful
Customer Info Updated Successfully!
```

***Similarly, all other elements are updated.**

Delete Customer Info:

```
Enter your choice: 3
Enter Admin Password to Proceed: comp
Access Granted
Enter Customer ID to be deleted: 1
(1, 'Gon Freegz', 'xyz', Decimal('9999995222'), 'Male', 101)
Are you sure you want to proceed? (y/n)y
Mission Successful
Customer Info Deleted Successfully!
```

Updating Employee Info:

```
Enter Employee ID to be updated: 3
(3, 'mary', 'Z-12', Decimal('199920002'), 'Female', 'mary12', '123456')
What do you want to update?


1. Name
2. Address
3. Contact
4. Gender
5. Username
6. Password
7. All of the above
8. Go back
Enter your choice: 1
Enter Updated Employee Name: Pushpa


Updated E_NAME: Pushpa
```

Delete Employee Info:

```
Enter your choice: 5
Enter Admin Password to Proceed: comp
Access Granted
Enter the Emp_ID to be deleted: 3
(3, 'Pushpa', 'Z-12', Decimal('199920002'), 'Female', 'mary12', '123456')
Are you sure you want to proceed? (y/n)y
Mission Successful
Employee Info Deleted Successfully!
```

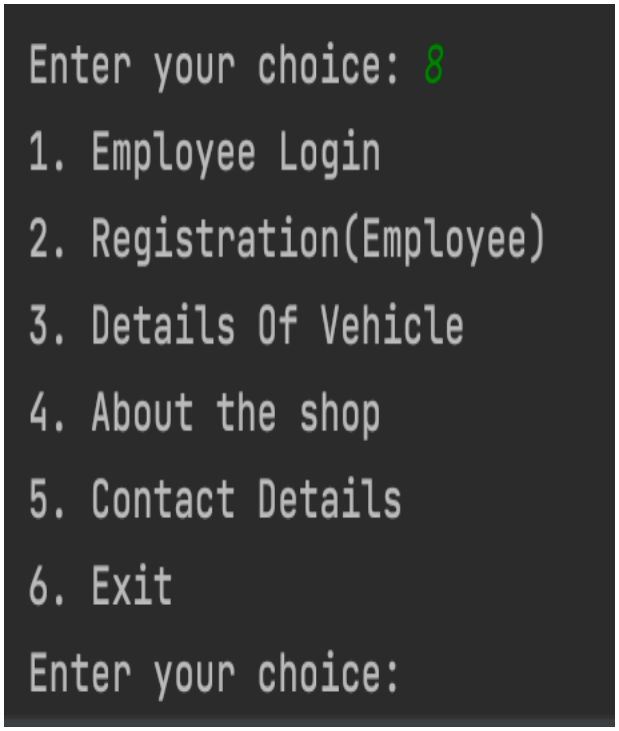
View Employee List:

```
Enter your choice: 6
Enter Admin Password to Proceed: comp
Access Granted
(2, 'majid', '1001', Decimal('2000201'), 'male', 'majidd', 'komm')
(4, 'Parth', 'Bg-231', Decimal('9388221212'), 'Male', 'Patel', 'Patel')
(101, 'Doja', 'villa-32', Decimal('8827772221'), 'Female', 'dora_j', 'money')
(102, 'nobara', 'y-1002', Decimal('99922122'), 'Female', 'Nobara_mam', '123456')
(103, 'doremon', 'Bg-100', Decimal('129399332'), 'Male', 'Dore_mon', 'dore')
--------------------------------------------------
```

View Customer List:

```
Enter your choice: 7
Enter Admin Password to Proceed: comp
Access Granted
(2, 'Liam', '1900503', Decimal('122202920'), 'Male', 2)
(3, 'Biscuit Oliver', 'Prison', Decimal('9021029099'), 'Male', 4)
(21, 'Baki Hanma', 'Villa-69', Decimal('6694206868'), 'Male', 102)
(100, 'Nora', 'Panvel', Decimal('1000220020'), 'Female', 103)
(101, 'Ava', '59 street', Decimal('1202020010'), 'Female', 4)
-----------------------------------------------------
```

Back:



Employee Registration:

```
Enter your choice: 2
Enter Admin Password to Proceed: comp
Access Granted
Enter Employee ID: 5
Enter Employee Name: Onii CHannn
Enter Employee Address: Bg-132
Enter Employee Contact: 0120129021
Enter Employee Gender: Male
Enter Username: Chann
Enter Password: 12332


E_ID: 5
E_NAME: Onii CHannn
E_ADDRESS: Bg-132
E_CONTACT: 0120129021
E_GENDER: Male
USERNAME: Chann
Password: 12332


Are you sure you want to proceed? (y/n)y
Mission Successful
Employee Info Successfully Added!
```

Vehicle Details:

```
Enter your choice: 3
Enter Admin Password to Proceed: comp
Access Granted
1. View Vehicle Details
2. View Rental Details
3. Add vehicle info
4. Update vehicle info
5. Delete vehicle info
6. Add Rental Detail
7. Back
```

View Vehicle Details:

```
Enter your choice: 1
Enter Admin Password to Proceed: comp
Access Granted
(1, 'Harrier', 'Ramu', Decimal('5'), 2020, Decimal('1000'))
(3, 'tesla s', 'ELon', Decimal('5'), 2021, Decimal('2000'))
(4, 'xylo', 'Rajnish', Decimal('7'), 2018, Decimal('800'))
(5, 'mahbach', 'Lesner', Decimal('12'), 2021, Decimal('5000'))
--------------------------------------------------
```

View Rental Details:

```
Enter your choice: 2
['Vehicle_no', 'Vehicle_name', 'Price_per_day', 'Date_Of_Rental', 'Date_of_Return', 'Total_Days', 'C_ID', 'TotalFare']
['1', 'Harrier', '1000', '2022-1-14', '2022-1-18', '4', '1', '4000']
['3', 'mahbach', '5000', '2022-1-20', '2022-1-22', '2', '2', '10000']
['4', 'xylo', '800', '2022-1-20', '2022-1-31', '11', '2', '8800']
['1', 'Harrier', '1000', '2022-1-17', '2022-1-20', '3', '1', '3000']
['3', 'maybach', '5000', '2022-2-1', '2022-2-5', '5', '3', '25000']
['2', 'tesla', '800', '2022-2-2', '2022-2-4', '2', '3', '1600']
--------------------------------------------------
```

Add Vehicle Info:

```
Enter your choice: 3
Enter Admin Password to Proceed: comp
Access Granted
Enter Vehicle Number: 6
Enter Vehicle Model: Tata Tiago
Enter Driver's Name: Shrivali
Enter Vehicle Capacity: 7
Enter Vehicle's Year of Manufacture: 2022
Enter Vehicle's price/day: 1000


V_NO: 6
Model: Tata Tiago
Driver: Shrivali
Capacity: 7
Manufacture_Year: 2022
Price_per_Day: 1000


Are you sure you want to proceed? (y/n)y
Mission Successful
Vehicle Info Added Successfully!
```

Update Vehicle Info:

```
Enter your choice: 4
Enter Admin Password to Proceed: comp
Access Granted
Enter the Vehicle Number to update its info in single quotations(' '): 6
(6, 'Tata Tiago', 'Shrivali', Decimal('7'), 2022, Decimal('1000'))
Enter the Vehicle Number above without (' '): 6
What do you want to update?


1. Model
2. Driver
3. Capacity
4. Year of Manufacture
5. Price/Day
6. All of the above
7. Go back
Enter your choice: 5
Enter Updated Vehicle's Price/Day: 1200


Updated Price_per_Day: 1200


Are you sure you want to proceed? (y/n)y
Mission Successful
Vehicle Info Updated Successfully!
```

***Similarly, all other elements are updated.**

Delete Vehicle Info:

```
Enter your choice: 5
Enter Admin Password to Proceed: comp
Access Granted
Enter the Vehicle_NO to be deleted in single quotations(' '): 6
(6, 'Tata Tiago', 'Shrivali', Decimal('7'), 2022, Decimal('1200'))
Are you sure you want to proceed? (y/n)y
Mission Successful
Vehicle Info Deleted Successfully!
```

Add Rental Details:

```
1. View Vehicle Details
2. View Rental Details
3. Add vehicle info
4. Update vehicle info
5. Delete vehicle info
6. Add Rental Detail
7. Back
Enter your choice: 6
Enter vehicle no: 1
Enter vehicle name: Harrier
Enter price per day of vehicle: 1000
Enter Date_Of_Rental(yyyy-mm-dd): 2022-02-05
Enter Date_Of_Return(yyyy-mm-dd): 2022-02-10
Enter total numbers of days: 5
Enter Customer ID: 4
Enter more (Y/N)? n
Detail successfully added
```

About Us:

```
Enter your choice: 4
 ---------------------------------------------------------------------------------------------------
 | Binod Rent a Car is a rental car agency based in Ruwais, Abu Dhabi UAE . The company has        |
 |  branches
 | across UAE, India , Pakistan, Canada. Binod is owned by the bata groups of manufacturing .Binod |
 |  car rental typically caters to budget-conscious leisure travelers and is the largest car rental|
 |  provider to international travelers visiting UAE,India and Canada.
---------------------------------------------------------------------------------------------------
 | Ratings- Binod rent a car has been rated ★★★★☆ over 2 consecutive years. Our reviews indicated  |
 |  that we are very efficient and our loyal customers also recommend our company to their friends.|
---------------------------------------------------------------------------------------------------
---------------------------------------------------------------------------------------------------
 |   Complaints and Criticism-  Binod rent a car has been criticized for not providing adequate    |
 |    access
 |   to wheelchair users, But the company issued new policy in 2020 which provides facilities to   |
 |   people using wheel chairs
---------------------------------------------------------------------------------------------------
 |   What we do about the complains- we try our best to resolve them. We have a committee who looks|
 |  after such issues(as said above our company has issued policy for user friendly experience). We|
 |   also conduct surveys after every journey where users can rate our service. This reviews are.  |
 |    later
 |   taken into consideration while committee meeting and suggestions for solutions to user problem|
 |   are being proposed.
---------------------------------------------------------------------------------------------------
---------------------------------------------------------------------------------------------------
 |    Offers- We also give special offers to customers who have enrolled in our membership which   |
 |     costs                                                                                       |
 |    about 300 Dirhams or 60 dollars per month and around 100 dollars a year(we recommend year    |
 |    memebership because it can be used in all the other branches even in different countries) .  |
 |    We also give offer to our first time user customers (which is 20% off on registration).      |
 ---------------------------------------------------------------------------------------------------


                 ------------------------------------------------------------
                 | for More such info visit our website- www.Binod-rent-a-car.com|
                 ------------------------------------------------------------
```

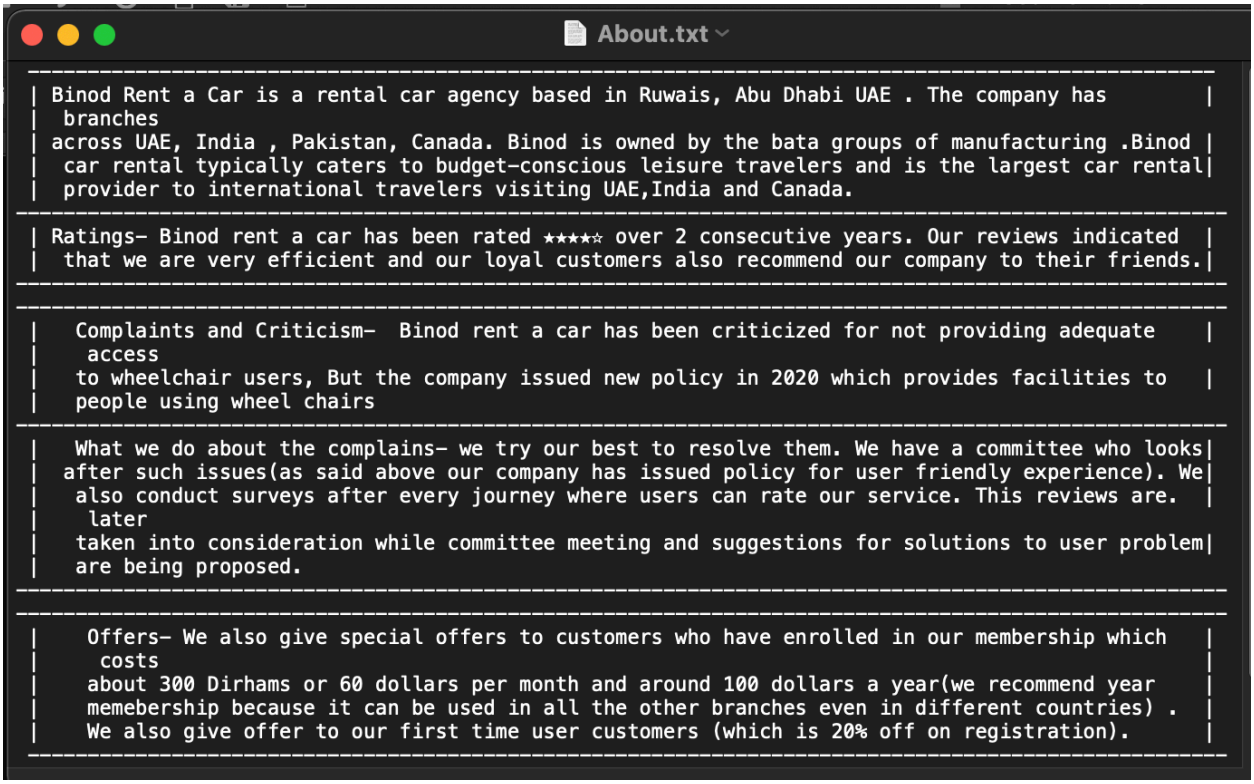
Contact:

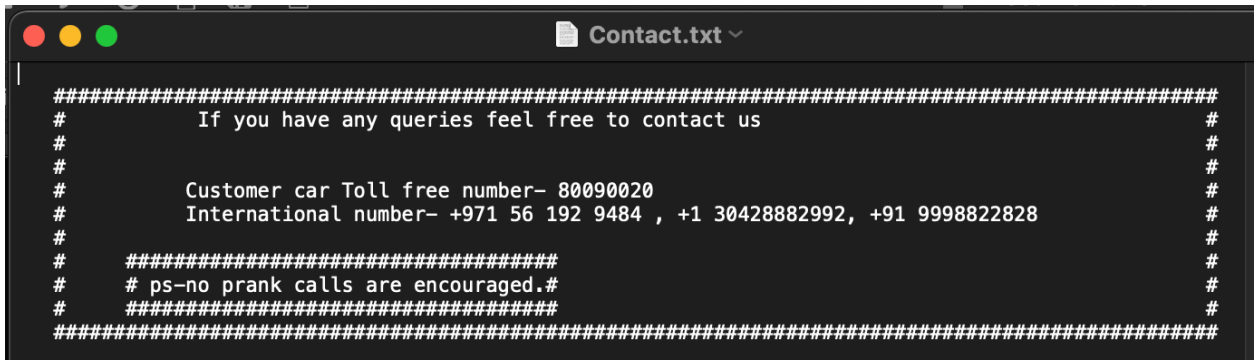
```
Enter your choice: 5



  ##########################################################################################################
  #          If you have any queries feel free to contact us                                               #
  #                                                                                                        #
  #                                                                                                        #
  #         Customer car Toll free number- 80090020                                                        #
  #         International number- +971 56 192 9484 , +1 30428882992, +91 9998822828                        #
  #                                                                                                        #
  #     ###################################                                                                #
  #     # ps-no prank calls are encouraged.#                                                               #
  #     ###################################                                                                #
  ##########################################################################################################


--------------------------------------------------
```

Exit:

```
Enter your choice: 6
Are you sure you want exit? (y/n)y
Exit Successful
------------------------------------------------------------
```

Files:





Rentalinfo

Vehicle_no	Vehicle_name	Price_per_day	Date_Of_Rental	Date_of_Return	Total_Days	C_ID	TotalFare
1	Harrier	1000	2022-1-14	2022-1-18	4	1	4000
3	mahbach	5000	2022-1-20	2022-1-22	2	2	10000
4	xylo	800	2022-1-20	2022-1-31	11	2	8800
1	Harrier	1000	2022-1-17	2022-1-20	3	1	3000
3	maybach	5000	2022-2-1	2022-2-5	5	3	25000
2	tesla	800	2022-2-2	2022-2-4	2	3	1600
4	xylo	800	2022-02-5	2022-02-10	5	3	4000
1	Harrier	1000	2022-02-05	2022-02-10	5	4	5000

Limitations

- The feature of being able to hide the password while typing has not been implemented yet.
- The feature to cross-refer the tables has not been implemented yet.
- The format must be strictly followed while entering important information such as Vehicle number, dates, etc.

Requirements

Hardware Required:

- Processor: Intel Core i3
- RAM: 2GB
- **Software Required:**
- Operating System: Windows, Linus, macOS
- Programming Language: Python
- Application used: Python IDLE, PyCharm, MySQL

Bibliography

- Sumita Arora textbook
- geeksforgeeks.org