**AMRITA VISHWA VIDYAPEETHAM**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**19CSE204 – OBJECT ORIENTED PARADIGM**

**GROUP PROJECT**

**CAR RENTAL SYSTEM**

# **Overview:**

Car rental system is an online system where customers can rent different kinds of cars of their interest. The main aim of this project is to design and develop a database for the car rental company to maintain the records of different types of information such as customer details, different cars details and it would be easy to keep track of different cars. This system simplifies the assignment of different cars and also increases the efficiency as it attracts many new customers.

This system makes the customers work to search for cars easy as all the details about the availability of different cars are available. This system also helps the car rental company to find the customers easily.

GROUP MEMBERS:

|  |  |  |
| --- | --- | --- |
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**TEAM CONTRIBUTION:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Roll\_No/**  **Name** | **Concept** | **Contribution** | **Justify your contribution** |
| CB.EN.U4CSE19453  R.ABHINAV | Class  Methods  Constructors  Inheritance | Design  Student | **Class : Login,payment**  Identified and designed class,methods,constructors,  inheritance for login,payment |
| CB.EN.U4CSE19459  **S**.SHANTHAN | Class  Methods  Constructors  Inheritance | Design  Student | **Class :customer,car**  Identified class,methods,constructors,  inheritance for customer,car |
| CB.EN.U4CSE19449  P.KOUSHIK | Class  Methods  Constructors  Inheritance | Design  Student | **Class :Billing**  Identified class,methods,constructors,  inheritance for billing |
| CB.EN.U4CSE19405  A.HEMANTH | Class  Methods  Constructors  Inheritance | Design  Student | **Class :Booking**  Identified class,methods,constructors,  inheritance for booking |

**ATTRIBUTES:**

**Classes:**

1. Login : Username and password
2. Customer: id,name,DOB,Gender,Email,phno,address
3. Cars:carid,model,reg\_no,customer\_id,availability\_status
4. Booking:
5. Billing:billingid,booking\_id,customer\_id,car\_id,discount,date of billing
6. Payment: billing\_id,total\_amount,return date,mode of payment,payment status.

**Methods:**

1. Login: Get username and password- strings
2. Customer: get id, get name, Get dob, Get gender, Get email, Get ph.no, Get address.
3. Cars: Get car id, get models, get reg.no, Get customer id, Get availability status.
4. Booking: Get booking id, Get booking status, Get from date, Get to date.
5. Billing: get billing id get booking id get discount, get date of billing.
6. Payment: get return date, get total amount, get payment method, get payment status.

**Constuctors:**

1. Login: null constructor
2. Customer:
   1. CUSTOMER(NAME,DOB,PHONE NUMBER)
3. CARS:
   1. CARS(MODEL,REG\_NO)
4. BOOKING:
   1. BOOKING(BOOKING\_STATUS)
5. PAYMENT:
   1. PAYMENT()
      1. TOTAL\_AMOUNT=0;
   2. PAYMENT(PAYMENT\_METHOD,PAYMENT\_STATUS)

**Inheritance:**

1. Login - login depends on customer.
2. Cars - cars depend on booking.
3. Booking - depends on car and customer.
4. Billing - depends on booking, car, customer.
5. Payment - depends on billing

**--------------------------------THANK YOU---------------------------------**