

# **OOPS-PROJECT**

## **CAR PARKING MANAGEMENT SYSTEM**

### **TEAM MEMBERS DETAILS:**

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### **OBJECTIVE:**

The aim of implementing Parking Management System is to reduce time and increase efficiency of the current Parking Management System. In overpopulated cosmopolitan zones, parking strategies must be well implemented for management of vehicles. The system provides details of the vacant parking slots in the vicinity and reduces the traffic issues due to illegal parking in the vicinity. It is designed with an objective to meet the requirements of controlled parking that offers effortless parking tactics to the authorities. Our Parking Management System will ease people's task of finding safe parking spots in real time. The system helps an individual to pre-book the parking spot from the distant area, reducing traffic congestion and allowing a user to know the availability of parking space in advance.

### **INTRODUCTION:**

Our parking management solution can significantly offer benefit to both the user and the parking lot owner. It has two sections-one to

allocate/give parking area by the lot owner and other to view/book a parking slot by the user. The parking slot owner can give the information regarding number of parking slots , price for a given time and get the information regarding the number of slots booked, car number, Arrival and departure time of a car and money received. The user can get the information regarding the free and can book them for a required time period. When calculating price for a given time, the user must specify whether the vehicle is a VIP or not. For VIP parking, there is a discounted rate, and for other customers, there is a standard rate.

## **TECHNOLOGY:**

- Implementing the code using C++ (Object Oriented Programming).
- Using File system in C++ to store the data given by the user and owner.
- IDE Tool (Recommended: VS Code)

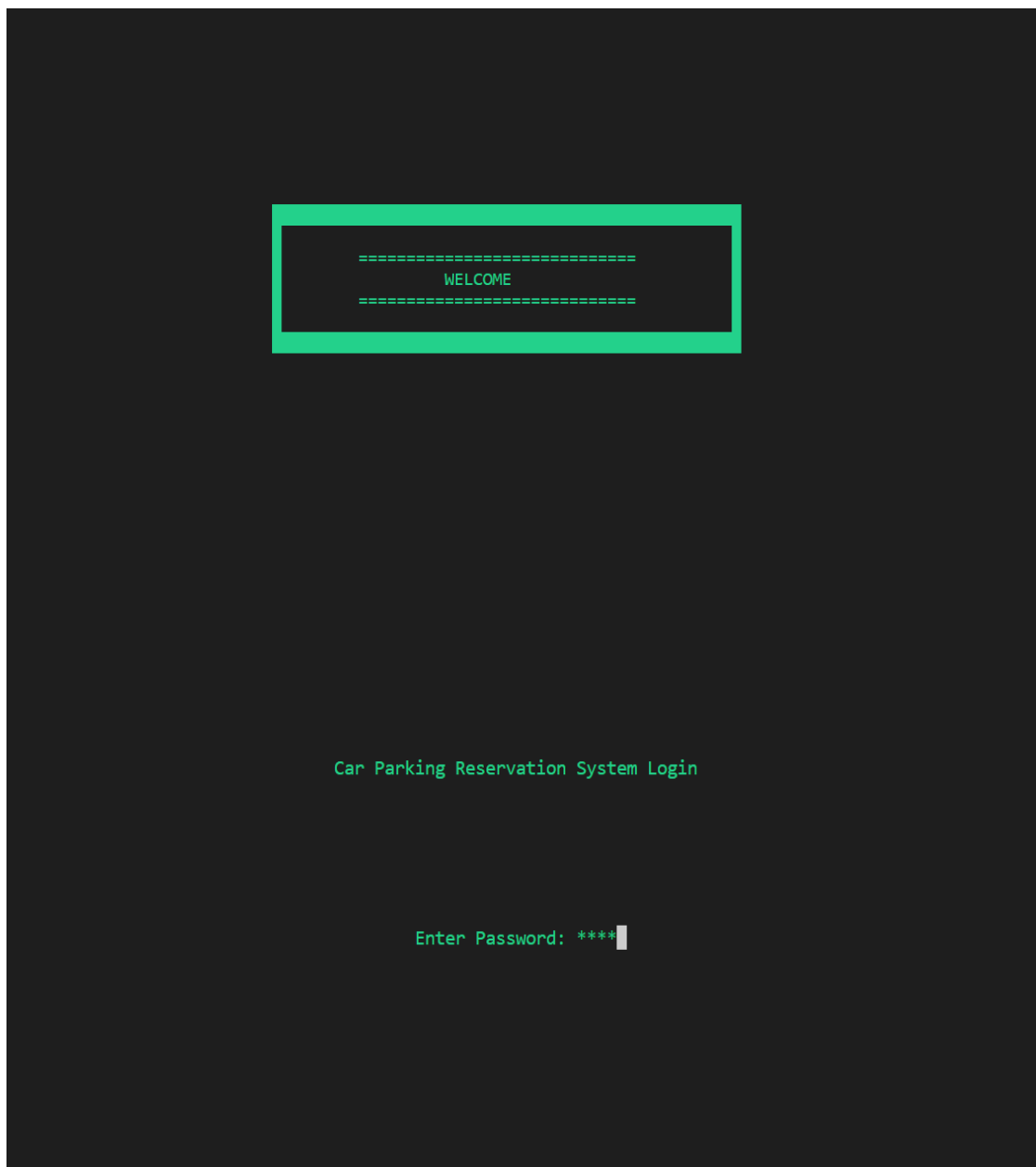
## **OUTPUT:**

### **OWNER:**

- The owner can set the number of parking slots available.
- Owner can search, delete, update vehicle.
- Get the slot number of car by entering its number.
- Owner can view the payment status of any car by its number.
- Get the Details of all cars parked with payment details.

## USER:

- Book a slot.
- Search his vehicle or update details.
- User also have an option to cancel his booking.
- Get payment.



-----CAR PARKING MANAGEMENT SYSTEM-----

-----DETAILS ABOUT OUR PARKING LOT ARE :-----

Amount to be paid per 1 hour =100/- (FOR NORMAL PEOPLE)-

Amount to be paid per 1 hour =50/- (ONLY FOR VIPs)

Select Mode To Continue:

1 -> OWNER      2 -> USER      3 -> EXIT

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1. Set No Of Parking Slots Available
2. Show Vehicle Slot No
3. Search Vehicle
4. Delete Vehicle
5. Update Vehicle
6. List All Vehicle
7. Check Earned Money
8. Check Payment Status
9. Exit

Enter Your Choice: █

----MENU FOR THE DETAILS----

- 1.Add new vehicle.
  - 2.Display all vehicles.
  - 3.Search your vehicle.
  - 4.Delete a vehicle.
  - 5.Update details of the user.
  - 6.Payment Of Fee.
  - 7.Exit.
- Please enter your option :

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