Vehicle Parking Management System

PREPARED FOR

Shopping Mall

PREPARED BY

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SUMMARY

1. Project Overview

To provide customers better parking convenience. Enhanced Safety and Security Parking management systems can provide you with increased levels of security, safety, and privacy. Parking management systems stop people who aren't supposed to be there from getting into your parking lots. As a result, car owners will feel safer knowing that their cars are safe.

This program will be menu driven which consist of following features.

1. SHOW AVAILABLE PARKING LOTS
2. ARRIVAL OF VEHICLE

3. DEPARTURE OF VEHICLE

4. ADMINISTRATION

5. EXIT

SHOW AVAILABLE PARKING LOTS

When the user presses 1 in the menu then the available parking lots will be shown If

parking is full and there is no parking slots available there will be a message shown

(No Parking Available all the slots are full)

NOTE: There will be three floors and each floor has 10 parking slots with different

charges. **ARRIVAL OF VEHICLE**

When the user presses 2 in the menu then the **ARRIVAL OF THE VEHICLE** option
will open which has many sub-categories that take input from the user. For instance

Are you a customer or employee of mall:

1) Employee
2) Customer

Enter Owner name (Mubasher):

Enter Owner Contact No:

Enter owner Vehicle type:

    1) Car
    2) Bike
    3) Truck
    4) Bus

Enter Vehicle Model (Civic):

Enter Owner Car Registration Number (ICT 5051):

Enter Arrival Time (HH:MM):

Enter Arrival Date(YYYY:MM:DD):

On which floor you want to park your vehicle:

    1) First floor ($50 per slot)
    2) Second floor ($30 per slot)
    3) Third floor ($20 per slot)

If the user entered correct information as mentioned above it will show him/her empty parking slots where he/she can park his/her vehicle and the message will be shown that

(Vehicle parked successfully)

NOTE: In case of an employee there will be no parking charges.

if the user enter any invalid information a notification will be shown
(Please enter valid information)

DEPARTURE OF VEHICLE

When the user presses 3 in the menu then the **Departure OF THE VEHICLE** option will open which has many sub-categories that take input from the user. For instance

Are you a customer or employee of mall:

    3) Employee

    4) Customer

Enter Owner name (Mubasher):

Enter owner Vehicle type:

    5) Car

    6) Bike

    7) Truck

    8) Bus

Enter Owner Car Registration Number (ICT 5051):

Enter Departure Time (HH:MM):

Enter Departure Date(YYYY:MM:DD):

On which floor you parked your vehicle:

    4) First floor

    5) Second floor

    6) Third floor

If the user entered correct information als mentioned above then the message will be shown

(Vehicle Successfully Exit by paying charges of $50).
In case of an employee there will be no parking charges and a message will be

shown. **(Vehicle Successfully Exit).**

Condition for Exit : User must enter his her correct Vehicle registration number which he entered at the time of arrival for successful exiting.

And if user enter any invalid information a notification will be shown

(Please enter valid information)

ADMINISTRATION SYSTEM

When the user presses 4 from Menu there will be further Sub Menu that is given below.

1) SHOW VEHICLES RECORD
2) TOTAL VEHICLES PARKED
3) TOTAL AMOUNT COLLECTED
4) MODIFY FLOOR PARKING CHARGES
5) EXIT

SHOW VEHICLES RECORD

When the user presses 1 in the menu then SHOW VEHICLES RECORD option will open

Owner Name	Owner Number	Vehicle Type Registration Number Arrival time Arrival Date	Amount Collected
Mimmi	921234	Car TGH-234 09:12 22:01:23	$50

TOTAL VEHICLES PARKED

When the user presses 2 from the menu this message will be shown:

Car	Bike	Bus Truk
04	11	22 10

TOTAL AMOUNT COLLECTED

When the user presses 3 from the menu this message will be shown:

Car	Bike	Bus Truk
$100	$90	$50 $20

MODIFY FLOOR CHARGES

When the user presses 4 from the menu this message will be shown:

First floor Charges are :$50 Per Slot

Second floor Charges are :$30 Per Slot

Third floor Charges are :$20 Per Slot.

Do you want to modify Charges Of Floors(Y/n):

In case of No Program automatically return to Sub menu .In Case of Yes following message will show

Of which floor Do You want to Increase the floor Charges

1. First
2. Second
3. Third

How Much Changes You want to set for First/Second/Third floor: 100
After Updated fee the Charges of Parking increases Depending Upon Floor,

Exit

When the user presses 5 from the Sub menu the program will exit & go to Main Menu.

EXIT

When the user presses 5 from the Menu the program will terminate.