

# SRI KRISHNA INSTITUTIONS

## BOOTATHON PROJECT

### VEHICLE PARKING MANAGEMENT SYSTEM

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# VEHICLE MANGEMENT SYSTEM

## BUSINESS REQUIREMENTS

The following are the business requirements of this project

S.I	Requirements	status
1	Login	
2	Vehicle details	
3	Slot allotment	
4	Payment	
5	Display	

### 1.LOGIN

This section contains the login details.

- The username and password should not exceed 20 characters long.
- String compare checks the username and password.
- If both are matching it displays “Login Successfully” otherwise it displays “Username or Password is incorrect”.

### 2.VEHICLE DETAILS

This section deals with the identification of the vehicle.

- By macros, BIKE and CAR are assigned as 0 and 1.
- According to the type of vehicle the security gives the input.
- The vehicle number is stored in string of 11 characters.
- The entry time is based on the system time which is in 24 hr format.
- Based on the above details token is generated.

### **3.SLOT ALLOTMENT**

This section allocates the space for vehicles.

- Based on the token ,the type of vehicle is identified.
- For the Two wheeler parking 5 floors and 50 columns are allocated.
- And for the four wheeler parking 2 rows and 50 columns are allocated.
- If the type is found ,specified space is allocated for its token number.
- A message is displayed when there is no space.

### **4.PAYMENT**

This module deals with the amount to be paid.

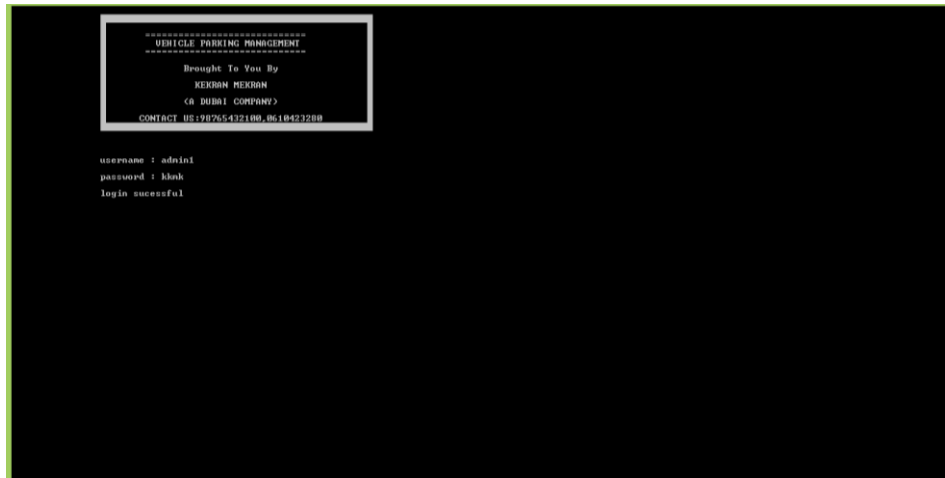
- All the fields are mandatory.
- The exit time is noted.
- According to entry and exit time of the respective vehicle, the parking fee is generated.

### **5.DISPLAY**

This module displays the status of the parking area.

- By Switch case ,various display tasks have been done.
- It displays the entry and exit time log of vehicle.
- It also displays the availabilityof parking space
- All are user demand cases.

## SCREENSHOT:



```
*****
WELCOME TO UGR CAR SHOWROOM
*****
COIMBATORE

Select
1.Entry
2.Exit
3.Display
4.Quit

Option ----> 2

Enter the token no ----> 1

Enter type ----> 1

*****
FOUR WHEELER PARKING AREA
*****

TIME ----> 21:00
# hours # mins# tot mins
Total fare ----> 0.000000_
```

```
*****
WELCOME TO UGR CAR SHOWROOM
*****
COIMBATORE

Select
1.Total vehicle count
2.Display boot log
3.payment

Option ----> 2

IN59BD9891 Thu Aug 22 17:40:54 2019 Bike
IN59BE8527 Thu Aug 22 17:49:17 2019 Car
IN63BD9562 Thu Aug 22 17:49:13 2019 Bike
IN59BE5527 Thu Aug 22 17:49:55 2019 Car
IN63V77772 Thu Aug 22 18:01:50 2019 Car
IN89BU5555 Thu Aug 22 18:02:03 2019 Bike
IN70U55555 Thu Aug 22 18:02:16 2019 Car
IN78UJ5555 Thu Aug 22 18:02:31 2019 Car
UT43P08889 Thu Aug 22 18:02:40 2019 Car
VU88QP5555 Thu Aug 22 18:03:03 2019 Car
IN89J55555 Thu Aug 22 18:06:45 2019 Car
IN89YU5555 Thu Aug 22 18:06:15 2019 Car
IN59BD9888 Thu Aug 22 18:12:29 2019 Car
IN59BD9891 Thu Aug 22 18:22:10 2019 Bike
IN63BE9999 Thu Aug 22 18:22:23 2019 Bike
IN59BD9891 Thu Aug 22 18:28:24 2019 Car
IN59BD5527 Thu Aug 22 18:28:20 2019 Car
IN63BD9891 Thu Aug 22 18:28:51 2019 Car
IN59BD9999 Thu Aug 22 18:29:15 2019 Car
IN59BD9997 Thu Aug 22 18:29:43 2019 Car
IN63BD9891 Thu Aug 22 21:00:43 2019 Car
```

```
*****
WELCOME TO UGR CAR SHOWROOM
*****
COIMBATORE

Select
1.Total vehicle count
2.Display boot log
3.payment

Option ----> 3

IN59BE5527 Thu Aug 22 17:58:29 2019 0.000000
IN78UJ5555 Thu Aug 22 18:03:17 2019 0.000000
IN89J55555 Thu Aug 22 18:06:15 2019 0.000000
IN89YU5555 Thu Aug 22 18:06:52 2019 0.000000
IN70U55555 Thu Aug 22 18:15:55 2019 0.000000
IN63BD9891 Thu Aug 22 18:27:04 2019 2.000000
IN59BE5527 Thu Aug 22 18:27:02 2019 1.000000
IN63BD9891 Thu Aug 22 21:00:50 2019 0.000000
```