UNIVERSITY INSTITUTE OF TECHNOLOGY.RGPV

DEPARTMENT OF COMPUTER APPLICATION

session : 2020-2022

MAJOR PROJECT

VEHICLE PARKING SYSTEM

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[0101CA201016]

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INTRODUCTION

A Vehicle parking system an easy for admin to retrieve the data if the vehicle has been visited through number he can get that data. Now days in many public places such as malls, multiplex system, hospitals, offices, market areas there is a crucial problem of vehicle parking.

The vehicle parking area has many lanes/slots for Vehicle parking. So to park a vehicle one has to look for all the lanes. Moreover this involves a lot of manual labour and investment. Instead of vehicle caught in towing the vehicle can park on safe and security with low cost.

OBJECTIVE

- We can park our vehicle by paying
- There is no risk for vehicle owner for parking the vehicle.
- In case of my damages and problem of vehicle that will claim at parking.
- Determine the parking area is full or not.
- Enhances the visitor ‘s experience.

SCOPE

Every place is under the process of urbanization. There are many corporate offices and shopping centers etc. There are many recreational places where people used to go for refreshment. So, all these places need a parking space where people can park their vehicles safely and easily. Every parking area needs a system that records the detail of vehicles to give the facility. These systems might be computerized or non-computerized. With the help of computerized system we can deliver a good service to customer who wants to park their vehicle into the any organization's premises.

Parking is a growing need of the time. Development of this system is very useful in this area of field. We can sell this system to any organization. By using our system they can maintain records very easily. Our system covers the every area of parking management. In coming future there will be excessive need of Vehicle parking management system.

MODULES

a).Data Records

Staff records: - It helps to provide details of staff that uses the Vehicle parking management System. It provides the descriptions of staffs like:
-Staff first, middle and last name, Address , Contact Number , Gender.

User Records: - This record helps for the authorization for using Vehicle Parking Management System. It Provides the Username and Password for the User (staff).It also includes the level of authority that means it separates the normal users and administrator.

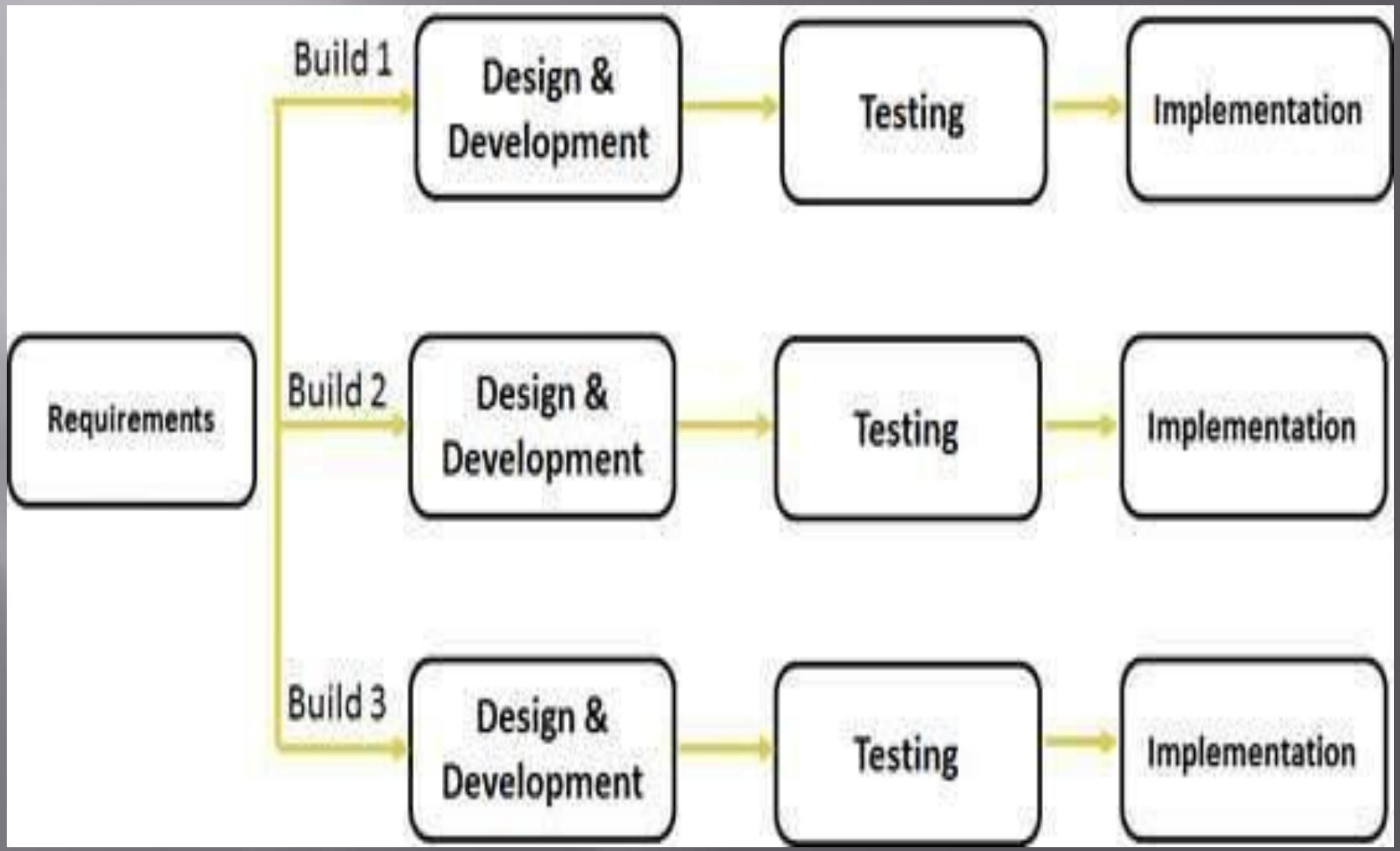
Vehicle Records: - This most important record which focuses in our Vehicle Parking Management System. It stores the essential Vehicle records like:
-Vehicle Number, Vehicle Type, Vehicle Entry Time, Vehicle Exit Time

b).Reports

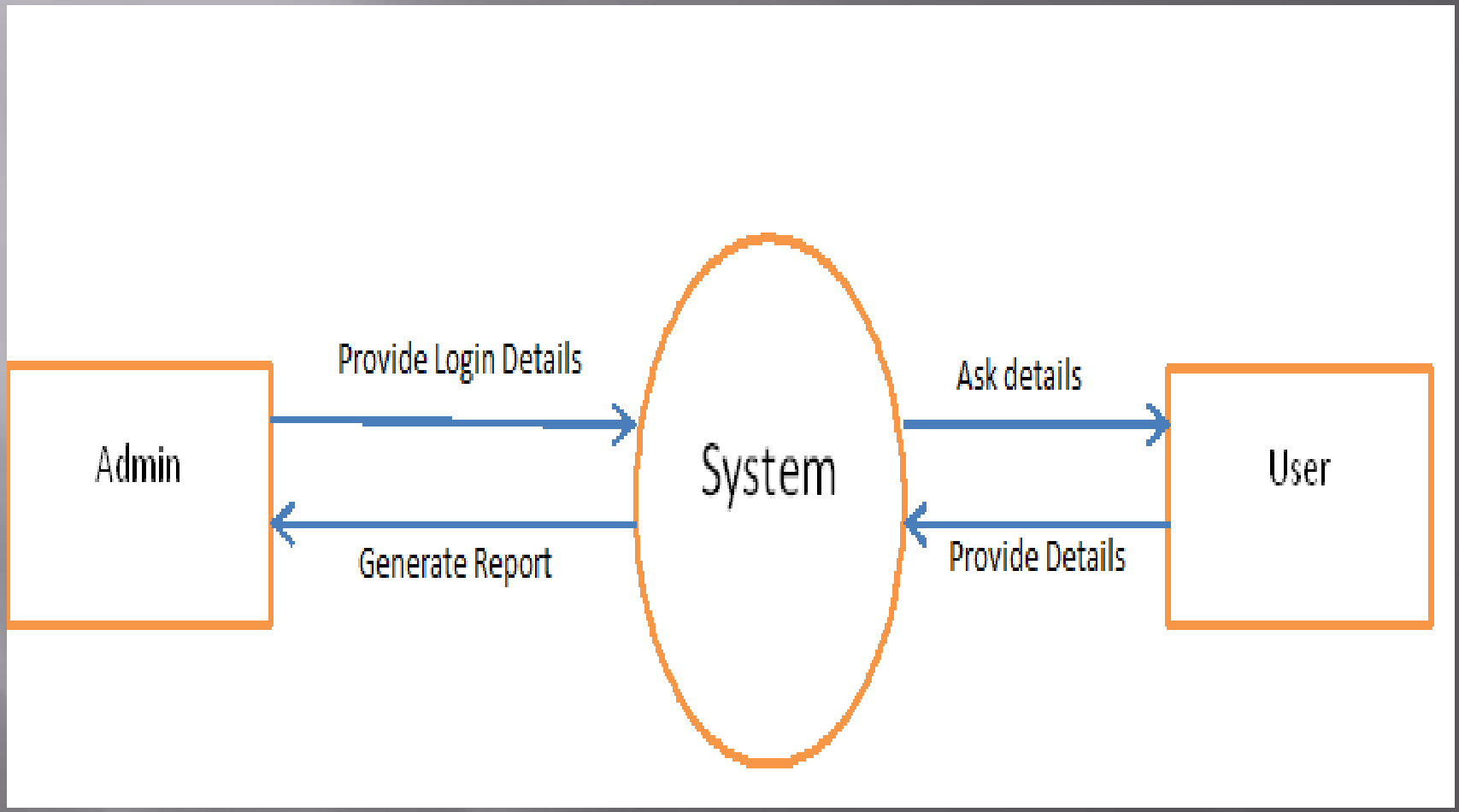
Vehicle Parking Detail: - This report is very essential in this system. This report provides a brief summary of vehicle activities. It shows the overall Entry and Exit time. It shows the User at time of Entry and Exit .It also provides the facility for examining the total vehicle details according to date wise.

Transaction Detail:-This report will show the Transaction between the customer and the System. . It shows the cost of the vehicle after using the facility of parking. It will show the number of transaction by date wise. It will also have User at time of the Transaction.

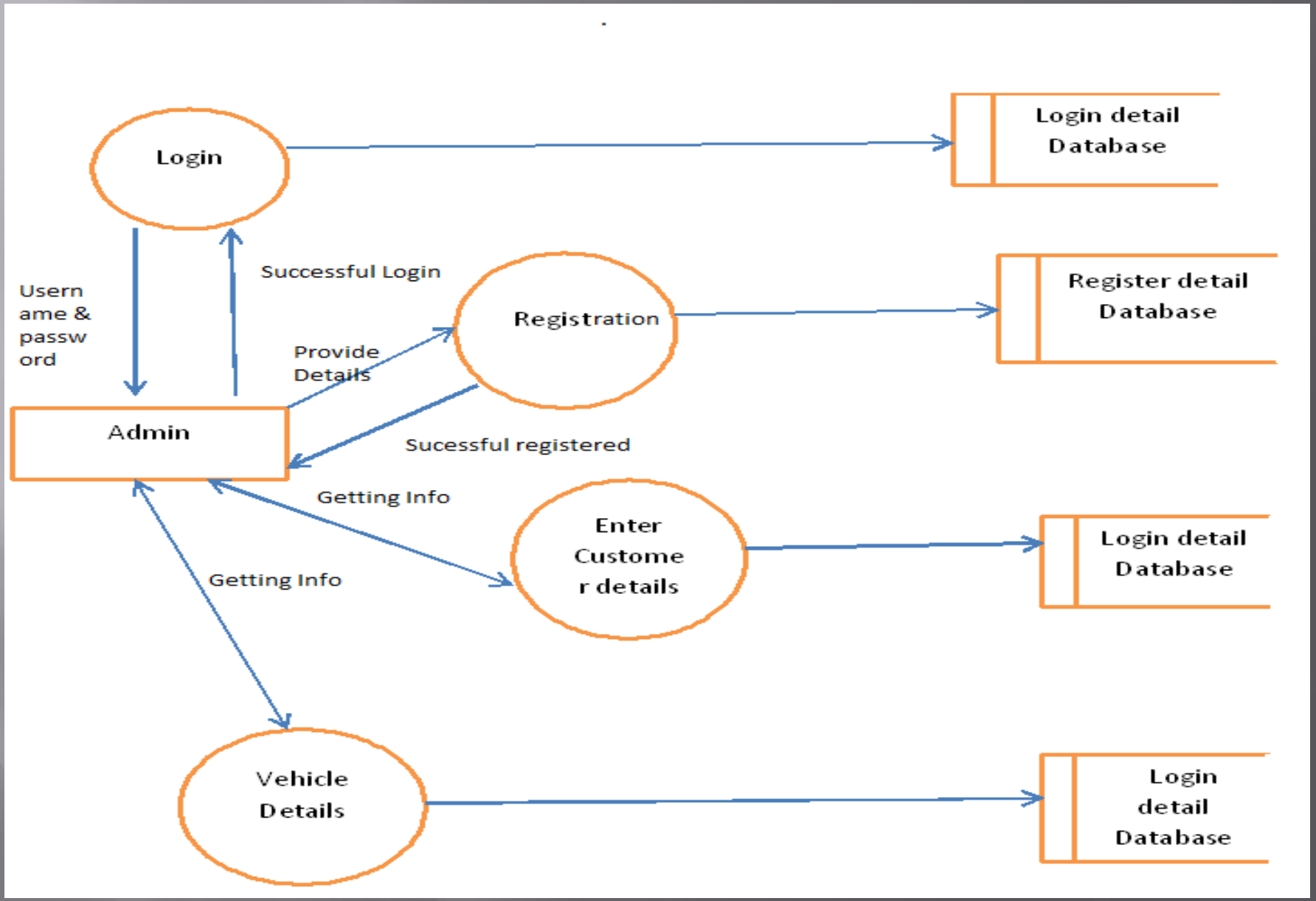
ITERATIVE MODEL DIAGRAM



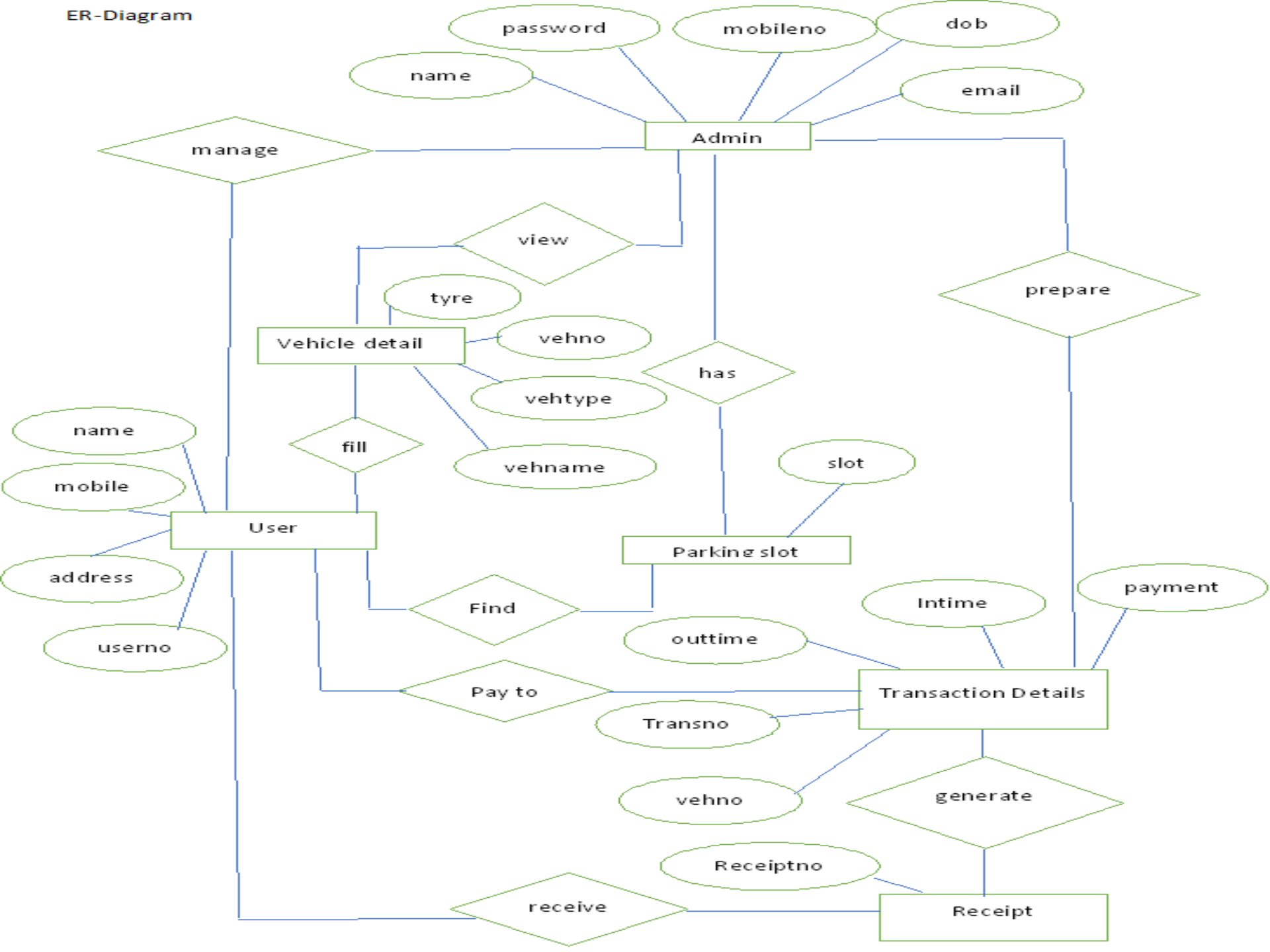
DATA-FLOW DIAGRAM



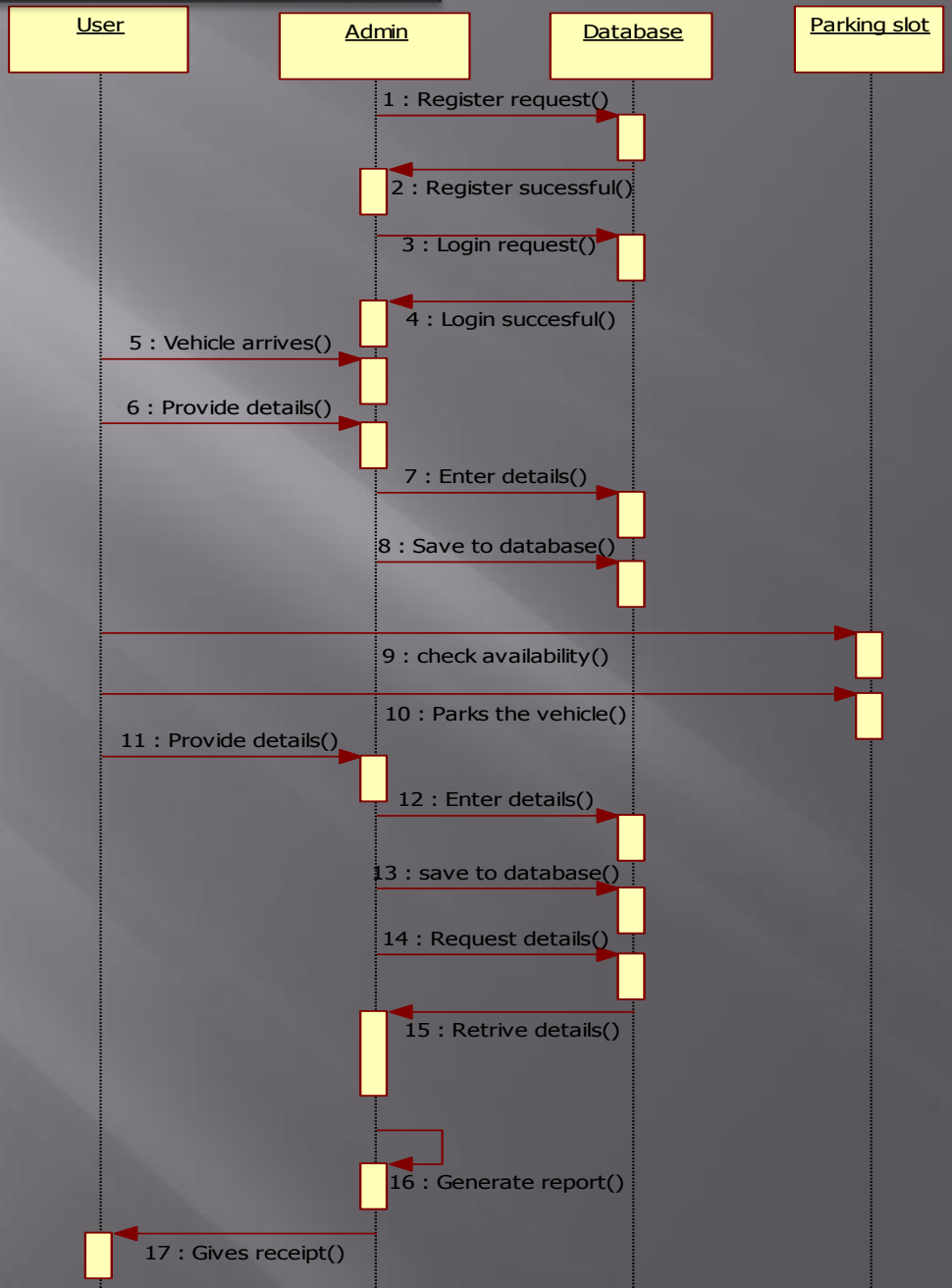
LEVEL 1 DFD


Login
Login detail Database
Usern ame & passw ord
Successful Login
Registration
Register detail Database
Provide Details
Admin
Sucessful registered
Getting Info
Enter Custome r details
Login detail Database
Getting Info
Vehicle Details
Login detail Database

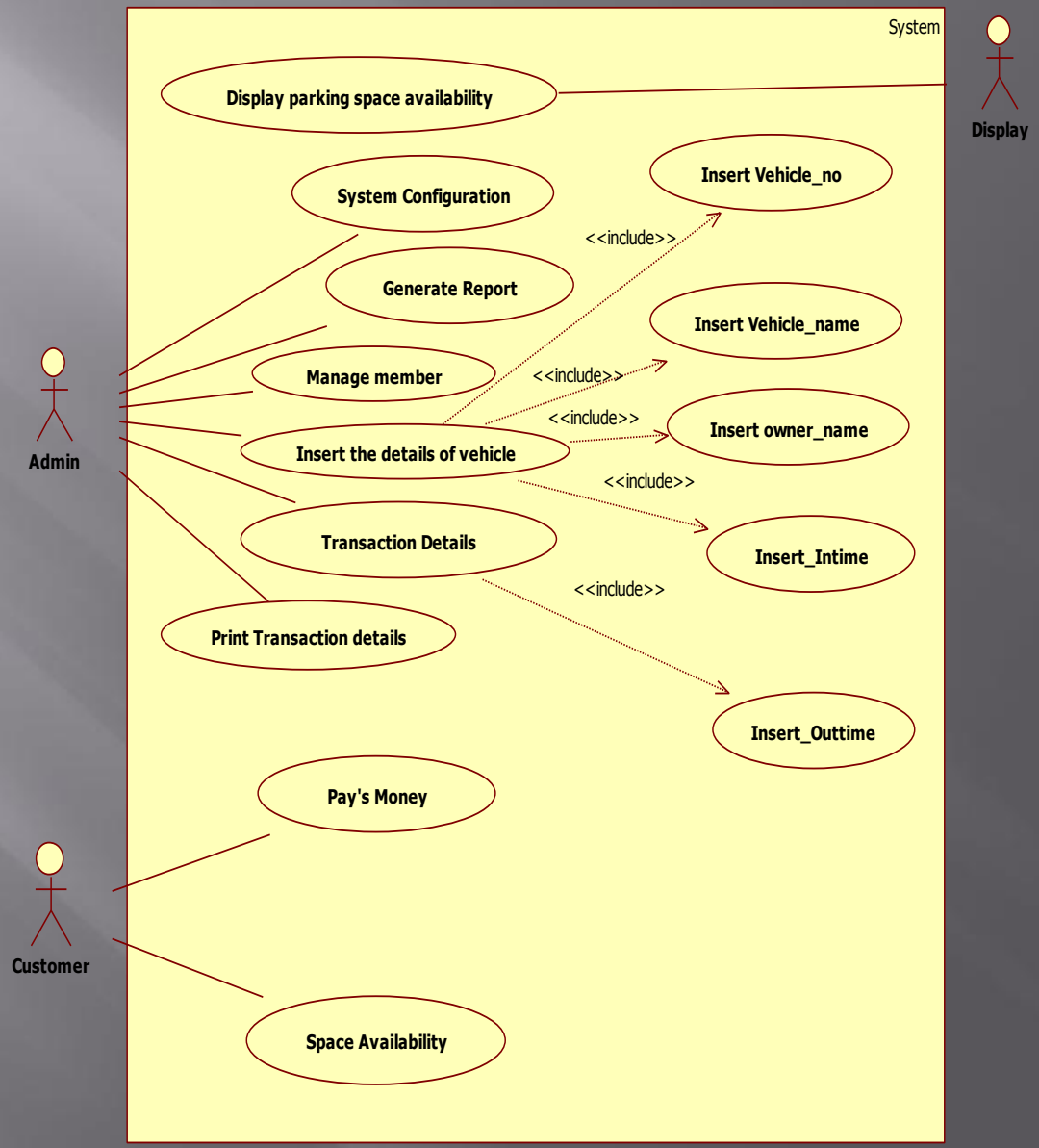
LEVEL 2 DFD


ER-Diagram
password
mobileno
dob
name
email
Admin
manage
view
tyre
Vehicle detail
vehno
vehtype
vehname
has
prepare
name
mobile
fill
User
address
userno
slot
Parking slot
Find
payment
Intime
outtime
Pay to
Transaction Details
Transno
vehno
generate
Receiptno
receive
Receipt

SEQUENCE DIAGRAM



USECASE DIAGRAM



USER REQUIREMNET

Need for an application that makes communicating easy and comfortable.

An application that enables user to park a vehicle with safe and secure.

Need for an application that is easy to use and widely available and hence a web application
Handling all functions done with organization in a computerized manner.

Allowing the user to park the vehicle directly.

FUNCTIONAL REQUIREMNET

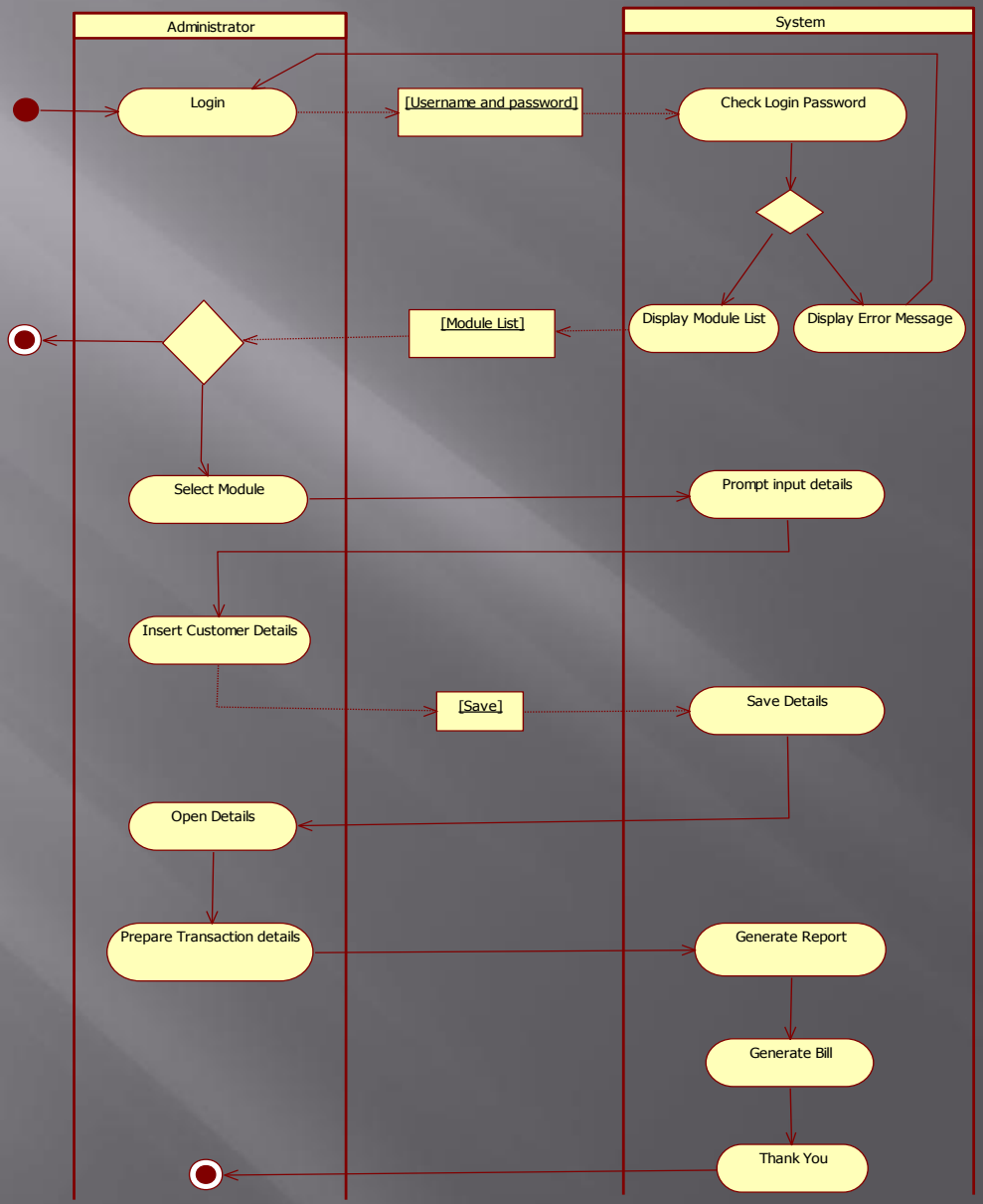
Admin need to enter all details for registration.

Admin need to insert all details about customer and vehicle.

Admin need to save all the details of customer and vehicle.

Admin can retrieve the details of customer.
Admin must generate a report for payment.

ACTIVITY DIAGRAM



NON-FUNCTIONAL REQUIREMNET

Usability: These website has appropriate user interface and adequate information to guide the user in order to use the website.

Portability: The website is portable as it is online website running across the net

Flexibility: It is very flexible

Security: This website provide user and authentication so that only the legitimate user are allowed to use the website

Maintainability: These website is capable to secure the data and easily retrieve the data.

Scalability: These system can further modified in future.

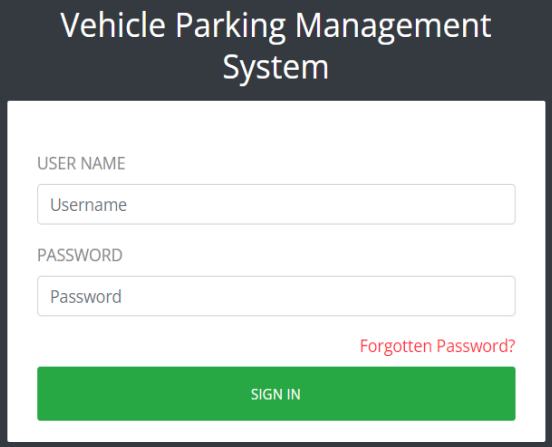
TECHNOLOGY USED

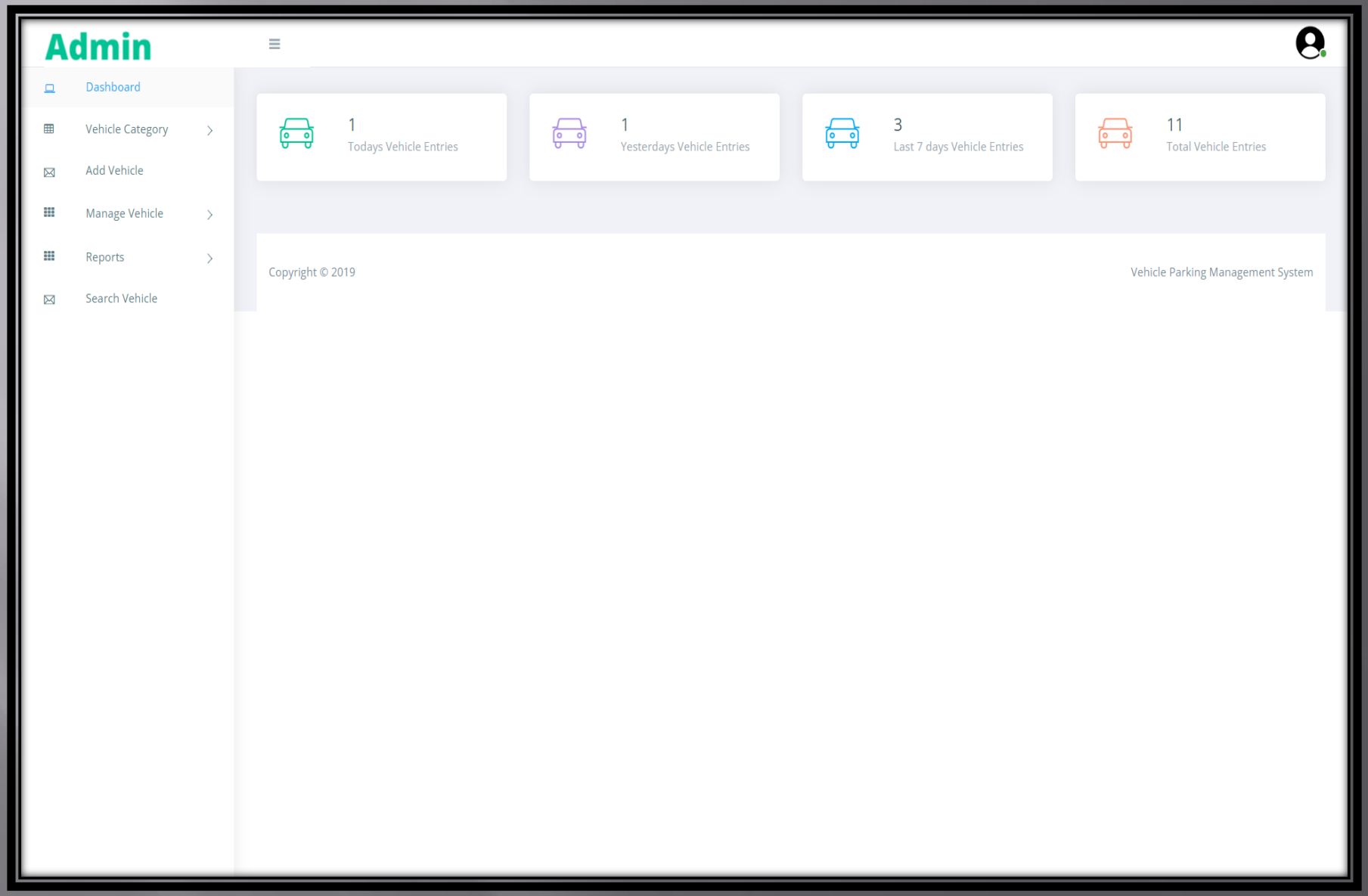
FRONT END :
Python GUI

BACK END :
Python

DATABASE :
mysqli

SCREENSHOTS




Admin
Dashboard
Vehicle Category
Add Vehicle
Manage Vehicle
Reports
Search Vehicle
1
Todays Vehicle Entries
1
Yesterdays Vehicle Entries
3
Last 7 days Vehicle Entries
11
Total Vehicle Entries
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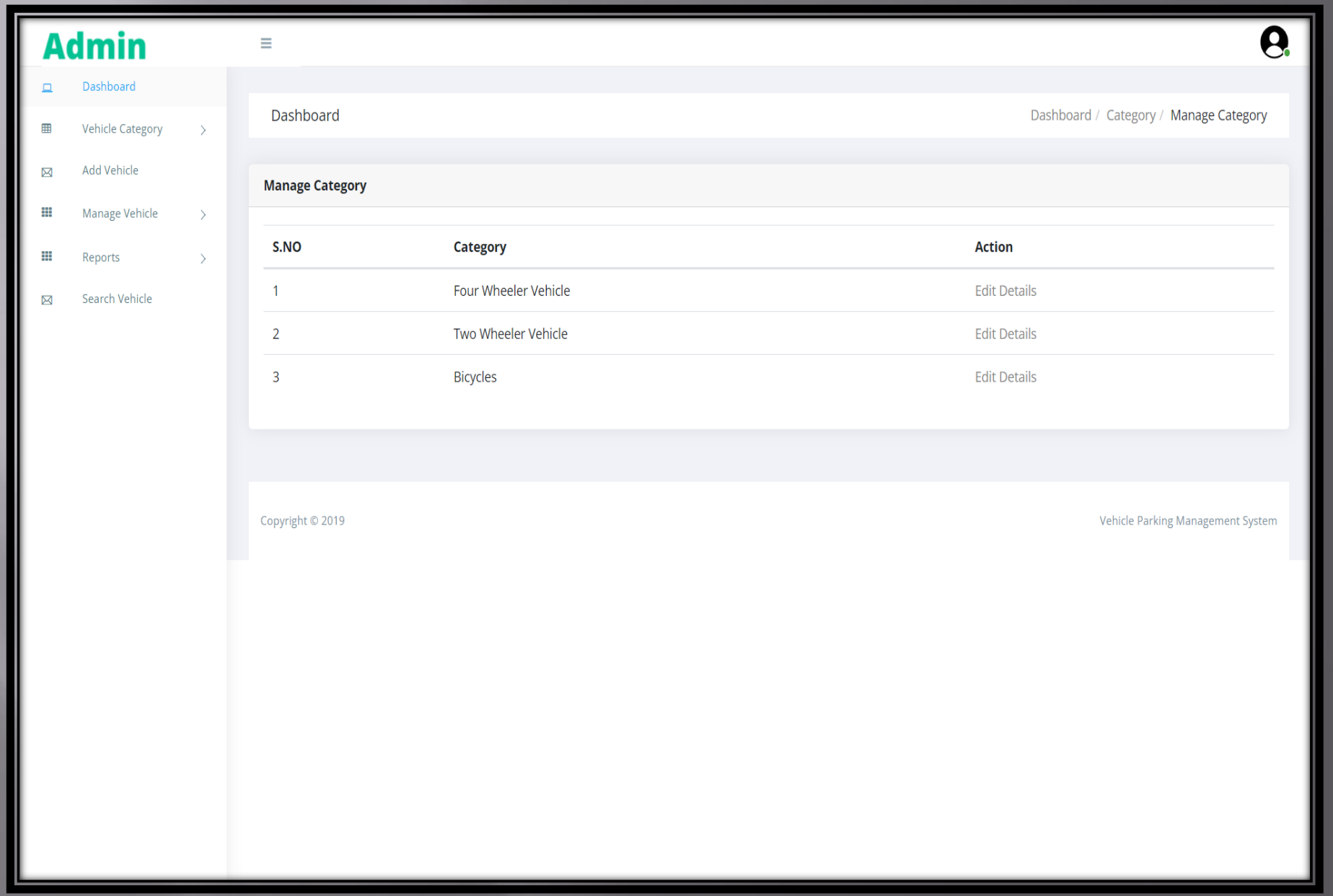
Vehicle Parking Management System


Admin
Dashboard
Vehicle Category
Add Vehicle
Manage Vehicle
Reports
Search Vehicle
Dashboard
Dashboard / Category / Manage Category
Manage Category
S.NO
Category
Action
1
Four Wheeler Vehicle
Edit Details
2
Two Wheeler Vehicle
Edit Details
3
Bicycles
Edit Details
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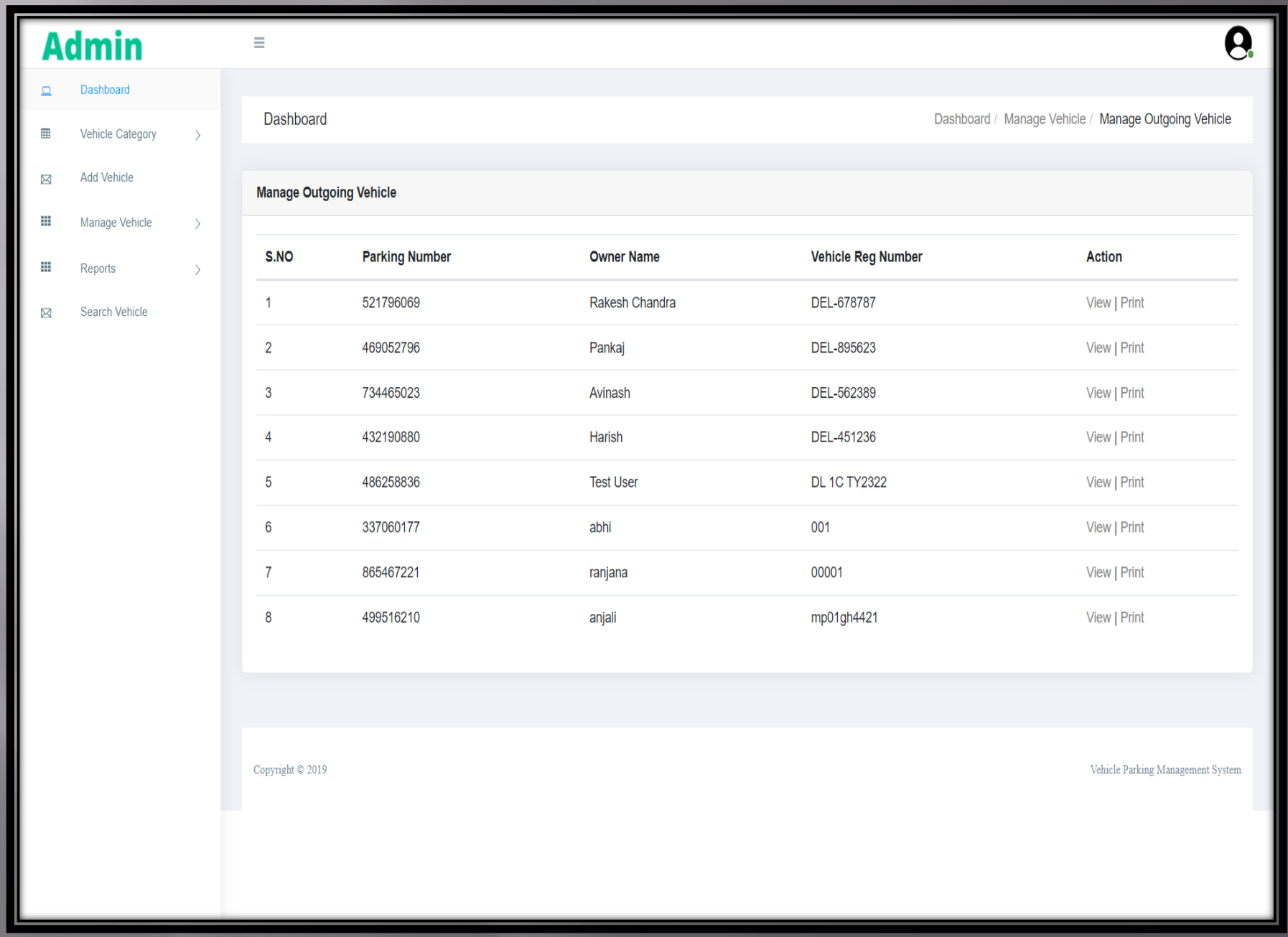
Vehicle Parking Management System


Admin
Dashboard
Vehicle Category
Add Vehicle
Manage Vehicle
Reports
Search Vehicle
Dashboard
Dashboard / Manage Vehicle / Manage Outgoing Vehicle
Manage Outgoing Vehicle
S.NO Parking Number Owner Name Vehicle Reg Number Action
1 521796069 Rakesh Chandra DEL-678787 View | Print
2 469052796 Pankaj DEL-895623 View | Print
3 734465023 Avinash DEL-562389 View | Print
4 432190880 Harish DEL-451236 View | Print
5 486258836 Test User DL 1C TY2322 View | Print
6 337060177 abhi 001 View | Print
7 865467221 ranjana 00001 View | Print
8 499516210 anjali mp01gh4421 View | Print
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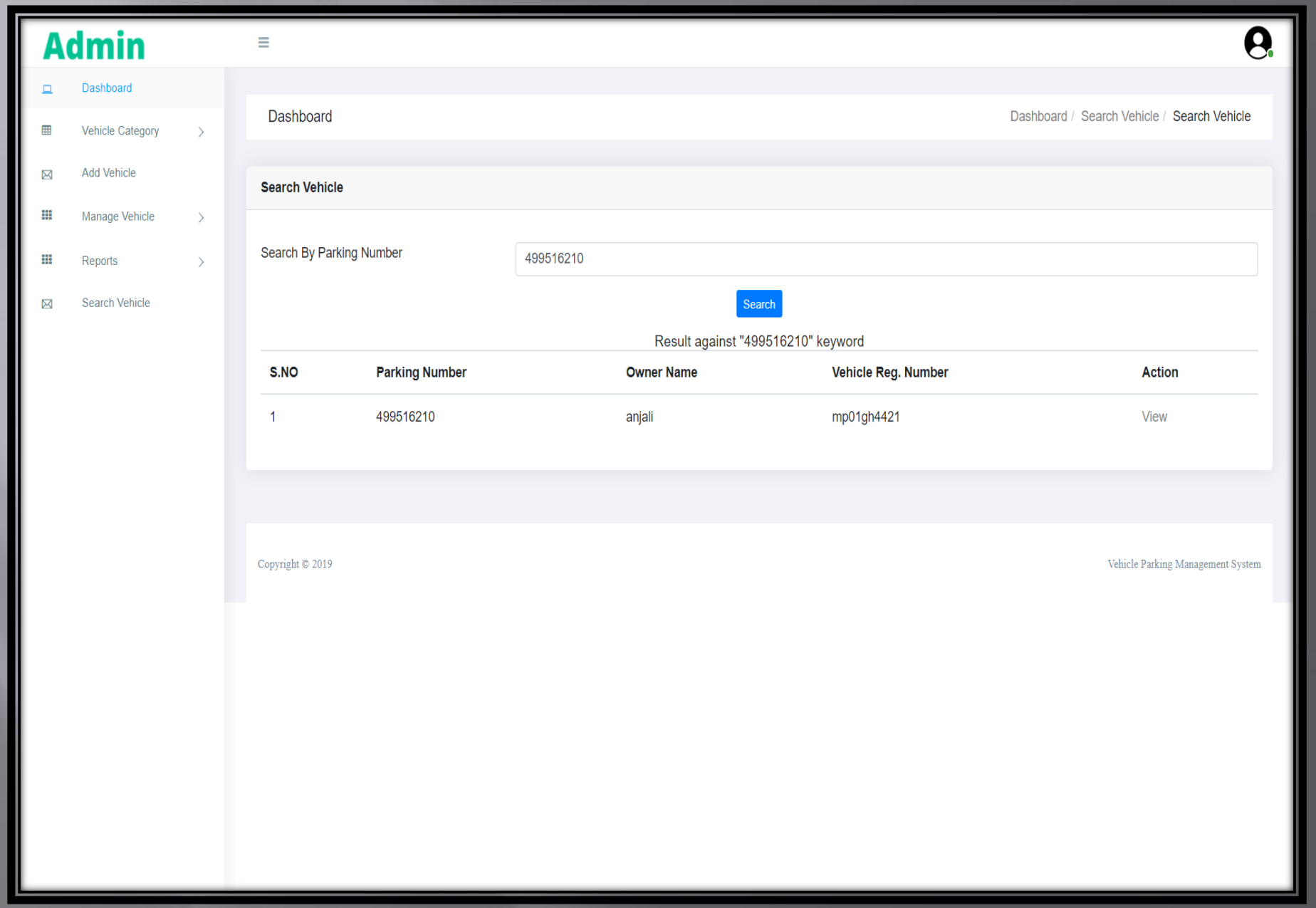
Vehicle Parking Management System


Admin
Dashboard
Vehicle Category
Add Vehicle
Manage Vehicle
Reports
Search Vehicle
Dashboard
Dashboard / Search Vehicle / Search Vehicle
Search Vehicle
Search By Parking Number
499516210
Search
Result against "499516210" keyword
S.NO
Parking Number
Owner Name
Vehicle Reg. Number
Action
1
499516210
anjali
mp01gh4421
View
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Vehicle Parking Management System

CONCLUSION

This Project is minimizing the task of parking a vehicle by paying and saying some details about customer and vehicle to save data. In this the vehicle is parked as a safe and secure. This project is done as Efficient as possible.

THANK YOU