EduBridge

A Project Report

on

Vehicle Parking Management System

By

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B.Tech

Batch : 2020-5345

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Introduction

Parking management system for managing the records of the incoming and outgoing vehicles in a parking house .

It's an easy for Admin to retrieve the data if the vehicle has been visited through number he can get the 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 for car 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 coast.

Parking control system has been generated in such a way that it is filled with many secure devices such as parking control gates, toll gates, time and attendance machine, vehicle counting system etc. these features are hereby very necessary nowadays to secure your car and also to evaluate the fee structure for every vehicles entry and exit.

The objective of project is to build a Vehicle Parking Management system that enables the time management and control of vehicles using number plate recognition. The system that will track the entry and exit of vehicles, maintain a listing of vehicles within the parking lot, and determine if the parking lot is full or not. It will determine the coast of per vehicle according to their time consumption.

I have developed this Application in **Java, JSP and My SQL.** It is a web based project so I have used **HTML, CSS.**

Software Requirements

Front end   **: Java/J2EE** technologies (JSP) ,HTML, CSS.

Back end   **:** MY SQL workbench 5.6CE.

Server   **:** Apache Tomcat v7.0. IDE : Eclipse neon for
                      Java EE Developers.

Browser   **:** Best result in Google Chrome.

Operating System : Window 10.

Data Dictionary

Admin page :

- Create database vpmsdb;
- CREATE TABLE `tbladmin`(`ID` int NOT NULL AUTO_INCREMENT, `AdminName` varchar(120) DEFAULT NULL,`UserName` varchar(120) DEFAULT NULL,`MobileNumber` bigint DEFAULT NULL, `Email` varchar(200) DEFAULT NULL, `Password` varchar(120) DEFAULT NULL, `adminregdate` timestamp NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP, PRIMARY KEY (`ID`)
) ENGINE=InnoDB AUTO_INCREMENT=2 DEFAULT CHARSET=latin1;

Vehicle Category :

- Create database vpmsdb;
- CREATE TABLE `tblcategory` (`ID` int NOT NULL AUTO_INCREMENT, `VehicleCat` varchar(120) DEFAULT NULL,`CreationDate` timestamp NULL DEFAULT CURRENT_TIMESTAMP, PRIMARY KEY (`ID`)
) ENGINE=InnoDB AUTO_INCREMENT=6 DEFAULT CHARSET=latin1;

Parking Seat Capacity :

- Create database vpmsdb;
- CREATE TABLE `tblparkingseatcapacity` (`parking_seat` int DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 ;

Registering a user :

➢ Create database vpmsdb**;**
➢ CREATE TABLE `tbluser` (`id` int NOT NULL
  AUTO_INCREMENT,`fullname` varchar(100) DEFAULT
  NULL,`mobile` varchar(100) DEFAULT NULL, `email` varchar(100)
  DEFAULT NULL,`address` varchar(400) DEFAULT NULL,`uname`
  varchar(45) DEFAULT NULL,`password` varchar(100) DEFAULT
  NULL,PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=7 DEFAULT
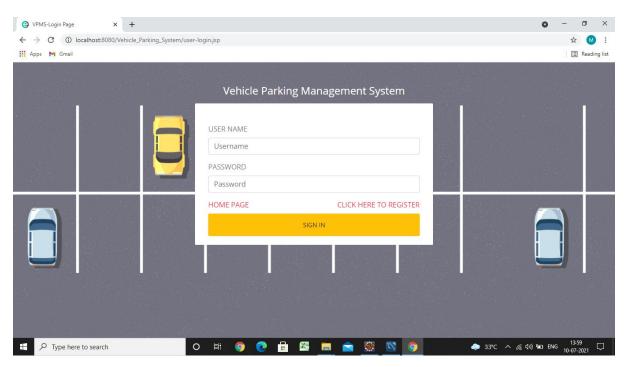 CHARSET=utf8mb4;

Booking a parking slot :

➢ Create database vpmsdb;
➢ CREATE TABLE `tblvehicle` (`ID` int NOT NULL
  AUTO_INCREMENT,`ParkingNumber` varchar(120) DEFAULT
  NULL,`VehicleCategory` varchar(120) NOT NULL,
  `VehicleCompanyname` varchar(120) DEFAULT NULL,
  `RegistrationNumber` varchar(120) DEFAULT NULL,`OwnerName`
  varchar(120) DEFAULT NULL,`OwnerContactNumber` bigint
  DEFAULT NULL,`InTime` timestamp NULL DEFAULT
  CURRENT_TIMESTAMP,`OutTime` timestamp NULL DEFAULT
  NULL ON UPDATE CURRENT_TIMESTAMP,`parkingcharge`
  varchar(120) DEFAULT NULL,`remark` mediumtext,`status` varchar(5)
  DEFAULT NULL,PRIMARY KEY (`ID`)
) ENGINE=InnoDB AUTO_INCREMENT=11 DEFAULT
  CHARSET=latin1;

ScreenShots

Home Page :

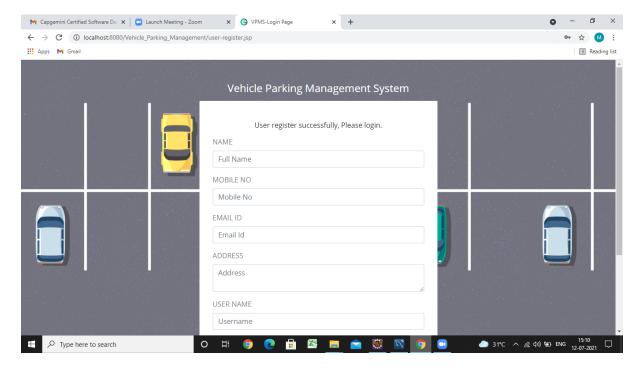## User Log-in :

Assigning a Wrong Password :

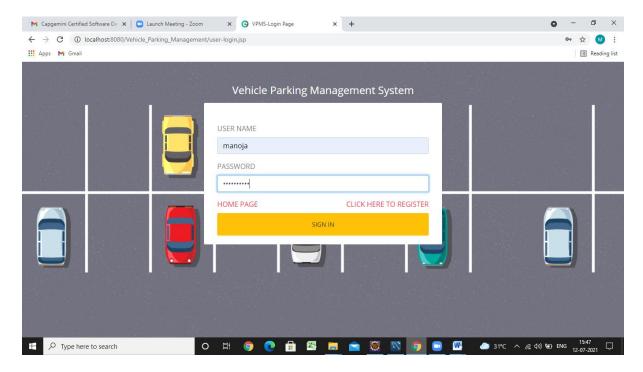
Registration form :

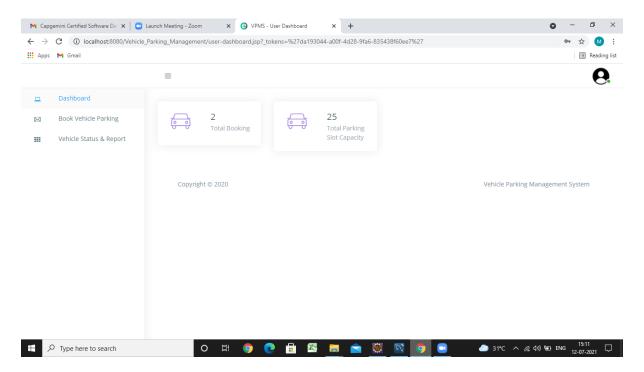# Registering with Data :

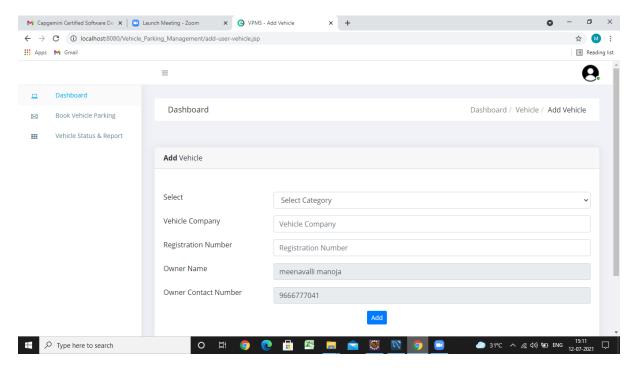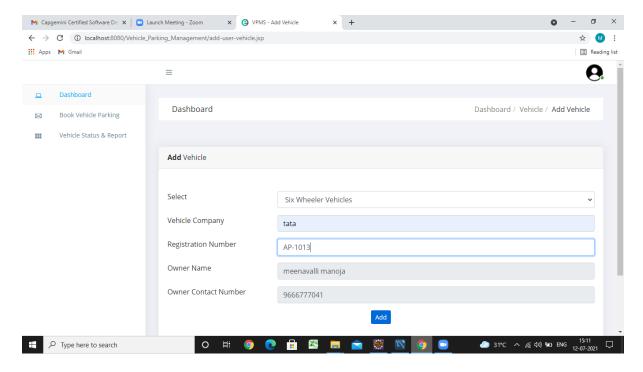# Registration Successful Page :

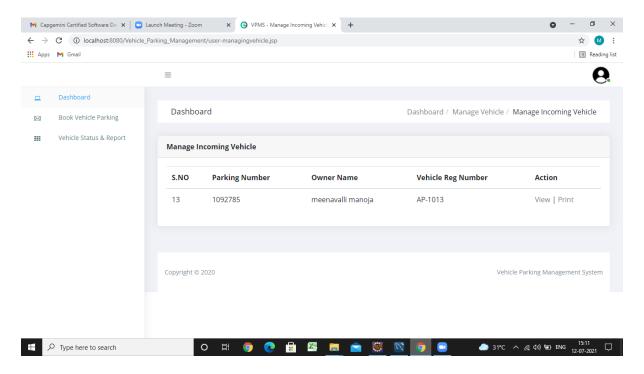## Sign-in page :

User Dashboard :
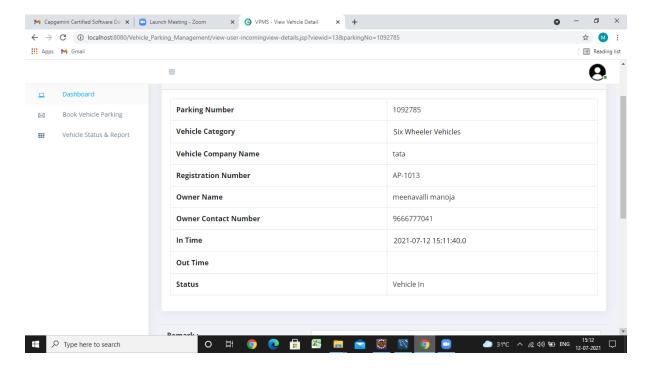
Slot to Add a Vehicle for Parking :
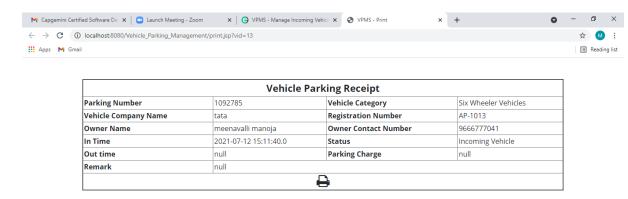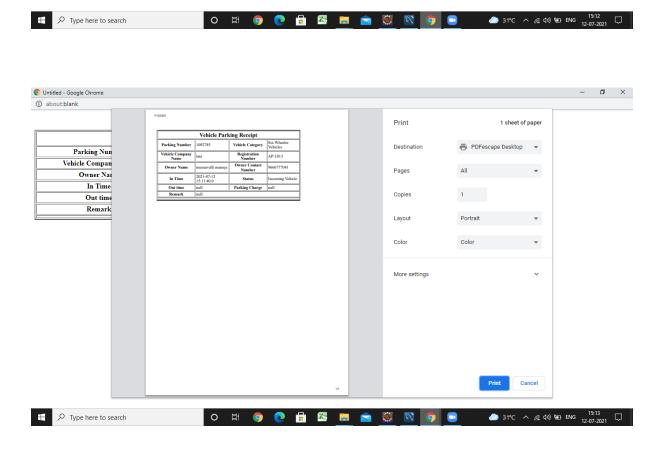

Adding Data To Book a Slot :
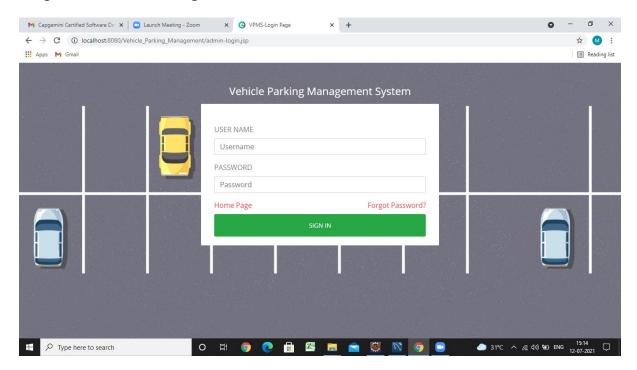
Vehicle Status :

To View Vehicle Status :

To Print the Data :

Vehicle Parking Receipt

Parking Number	1092785	Vehicle Category	Six Wheeler Vehicles
Vehicle Company Name	tata	Registration Number	AP-1013
Owner Name	meenavalli manoja	Owner Contact Number	9666777041
In Time	2021-07-12 15:11:40.0	Status	Incoming Vehicle
Out time	null	Parking Charge	null
Remark	null		

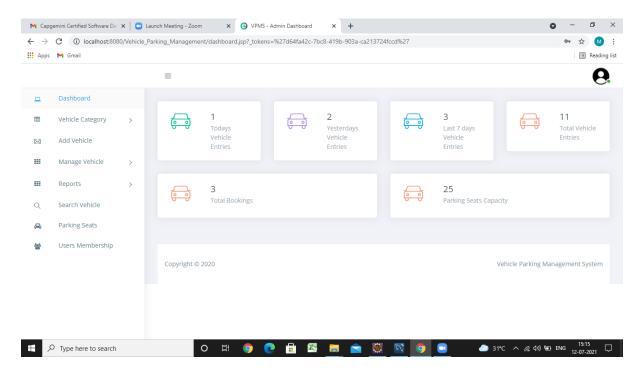# Log-in to Admin Page :

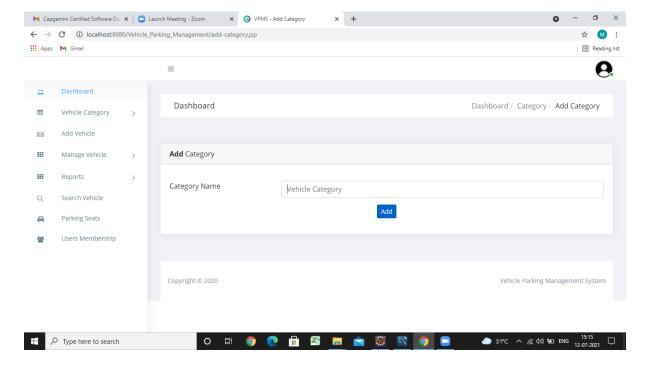# Forgot Password :

Entering Mobile Number :

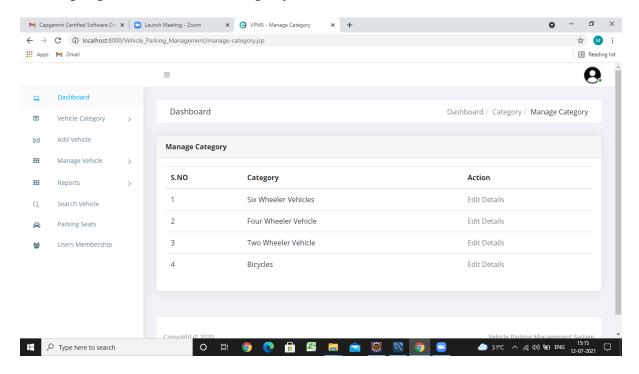## Viewing Forgotten Password :
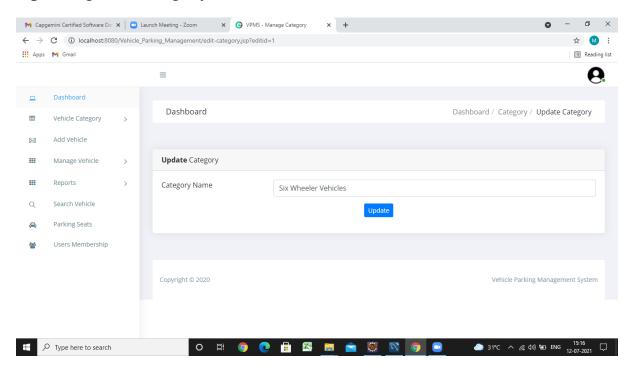
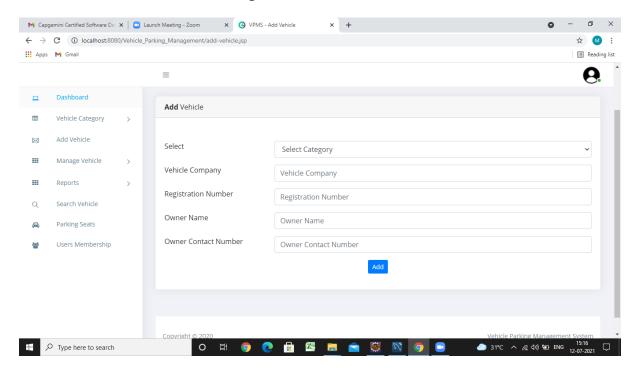## Admin Dashboard :

Adding Vehicle Category :

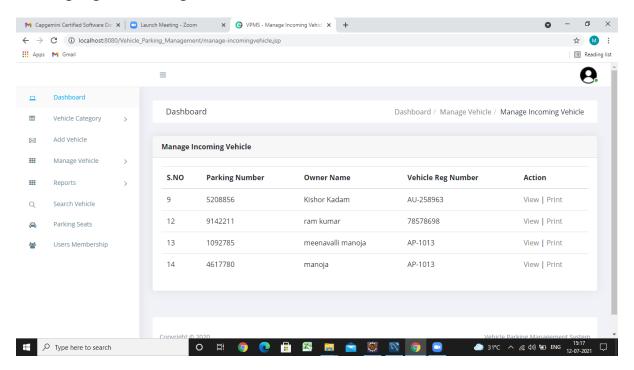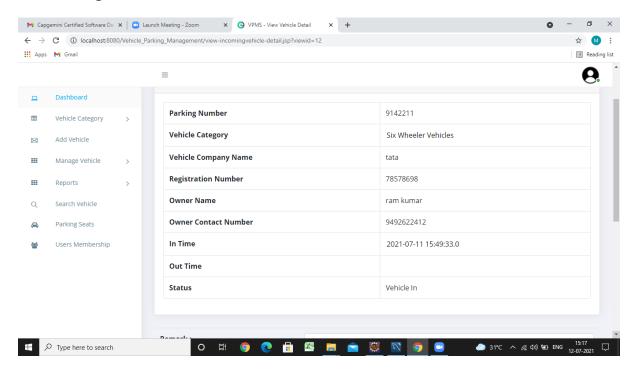# Managing the Vehicle Category :

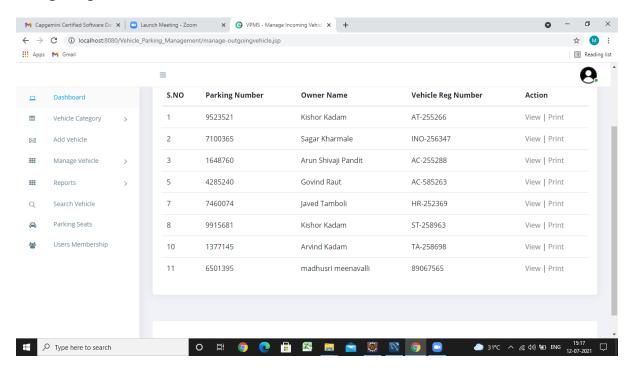# Updating the Category Details :

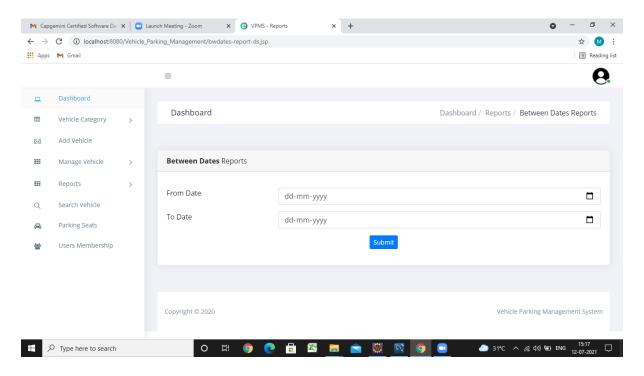# To Add Vehicle for Parking :

Managing Incoming Vehicle :
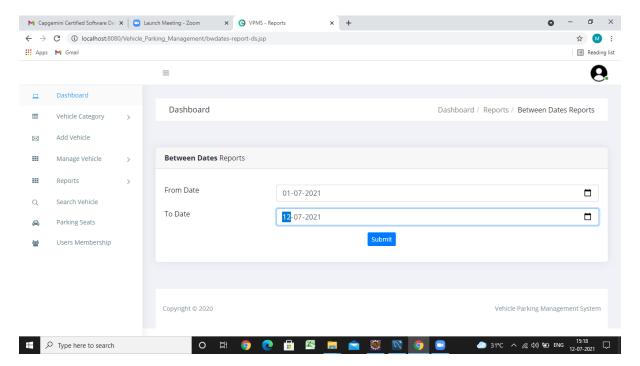
Incoming Vehicle Details :

Parking Number	9142211
Vehicle Category	Six Wheeler Vehicles
Vehicle Company Name	tata
Registration Number	78578698
Owner Name	ram kumar
Owner Contact Number	9492622412
In Time	2021-07-11 15:49:33.0
Out Time	
Status	Vehicle In

Outgoing Vehicle Details :

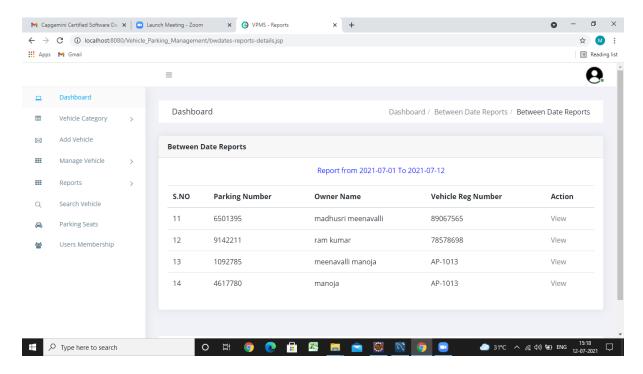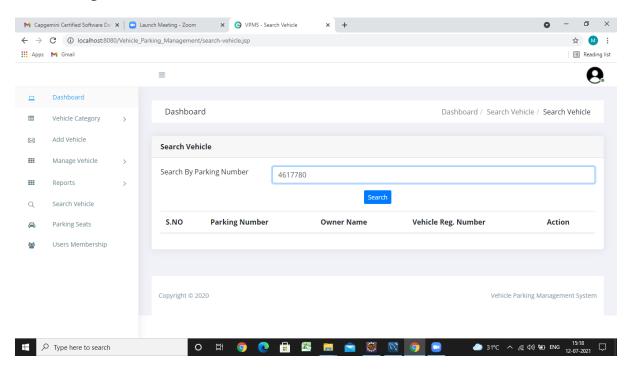| S.NO	Parking Number	Owner Name	Vehicle Reg Number	Action
1	9523521	Kishor Kadam	AT-255266	View	Print
2	7100365	Sagar Kharmale	INO-256347	View	Print
3	1648760	Arun Shivaji Pandit	AC-255288	View	Print
5	4285240	Govind Raut	AC-585263	View	Print
7	7460074	Javed Tamboli	HR-252369	View	Print
8	9915681	Kishor Kadam	ST-258963	View	Print
10	1377145	Arvind Kadam	TA-258698	View	Print
11	6501395	madhusri meenavalli	89067565	View	Print

To view the Vehicle Between Dates :

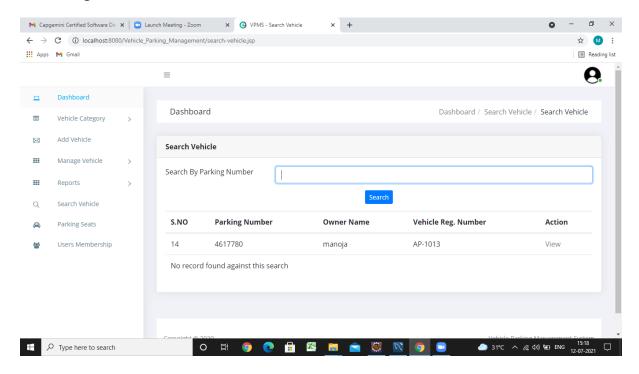# Entering the Details of Dates :

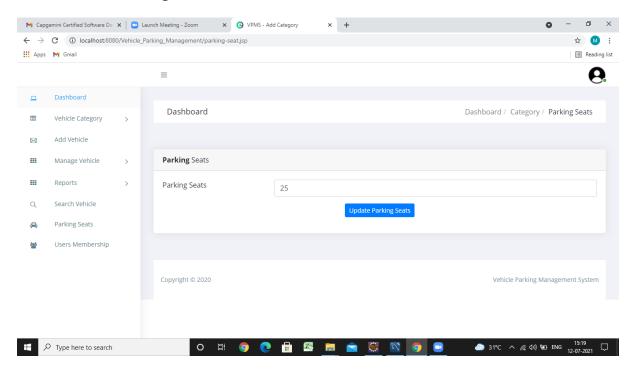# Details of Vehicles Between Dates :
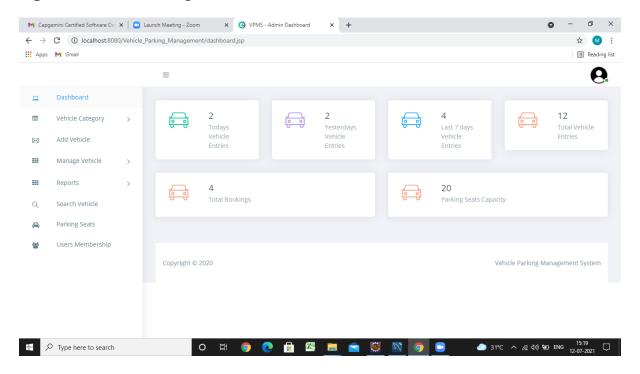

Searching Vehicle :

Viewing the Details of searched Vehicle :

Available Parking Seats :

Updated the Parking Seats :

Users Membership :

Thank You