A Project

Report On

Vehicle Parking Management System

By

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M.sc

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Introduction:

This Project **Vehicle Parking Management System** has been developed in **Java, JSP, and MySQL**. The purpose of this system is to automate the existing manual system by the help of computerized equipment's and computer software.

In this project, users can park vehicles in very little time. In this System, users can park any type of vehicle like two-wheelers, three-wheelers, four-wheelers, etc. This project provides lots of features to manage in a very well manner.

Software Requirements:

Front end: Java/J2EE technologies (Servlet, JSP), HTML,

                    CSS, Bootstrap, JDBC.

Back end: MySQL.

Server: ApacheTomcatv8.5V

IDE: Eclipse IDE for Java EE Developers

Browser: Google Chrome
Operating System: Window 10.

Data Dictionary
DataBase:

create database vpmsdb;
use vpmsdb;

USER :

Table Name: tbladmin

CREATE TABLE IF NOT EXISTS `vpmsdb`.`tbladmin` (
`ID` INT(11) NOT NULL AUTO_INCREMENT,
`AdminName` VARCHAR(120) NULL DEFAULT NULL,
`UserName` VARCHAR(120) NULL DEFAULT NULL,
`MobileNumber` BIGINT(20) NULL DEFAULT NULL,
`Email` VARCHAR(200) NULL DEFAULT NULL,
`Password` VARCHAR(120) NULL DEFAULT NULL,
`adminregdate` TIMESTAMP NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE
CURRENT_TIMESTAMP,
PRIMARY KEY (`ID`))
ENGINE = InnoDB
AUTO_INCREMENT = 2
DEFAULT CHARACTER SET = latin1

USER :

Table Name: tbluser

CREATE TABLE IF NOT EXISTS `vpmsdb`.`tbluser` (
`id` INT(11) NOT NULL AUTO_INCREMENT,
`fullname` VARCHAR(100) NULL DEFAULT NULL,
`mobile` VARCHAR(100) NULL DEFAULT NULL,
`email` VARCHAR(100) NULL DEFAULT NULL,
`address` VARCHAR(400) NULL DEFAULT NULL,
`uname` VARCHAR(45) NULL DEFAULT NULL,
`password` VARCHAR(100) NULL DEFAULT NULL,
PRIMARY KEY (`id`))
ENGINE = InnoDB
AUTO_INCREMENT = 10
DEFAULT CHARACTER SET = utf8

Table Name: tblcategory

```
CREATE TABLE IF NOT EXISTS `vpmsdb`.`tblcategory` (
`ID` INT(11) NOT NULL AUTO_INCREMENT,
`VehicleCat` VARCHAR(120) NULL DEFAULT NULL,
`CreationDate` TIMESTAMP NULL DEFAULT CURRENT_TIMESTAMP,
PRIMARY KEY (`ID`))
ENGINE = InnoDB
AUTO_INCREMENT = 6
DEFAULT CHARACTER SET = latin1
```

Table Name: tblparkingseatcapacity

```
CREATE TABLE IF NOT EXISTS `vpmsdb`.`tblparkingseatcapacity` (
`parking_seat` INT(11) NULL DEFAULT NULL)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8
```

Table Name: tblvehicle

```
CREATE TABLE IF NOT EXISTS `vpmsdb`.`tblvehicle` (

 `ID` INT(11) NOT NULL AUTO_INCREMENT,

 `ParkingNumber` VARCHAR(120) NULL DEFAULT NULL,

 `VehicleCategory` VARCHAR(120) NOT NULL,

 `VehicleCompanyname` VARCHAR(120) NULL DEFAULT NULL,

 `RegistrationNumber` VARCHAR(120) NULL DEFAULT NULL,

 `OwnerName` VARCHAR(120) NULL DEFAULT NULL,

 `OwnerContactNumber` BIGINT(20) NULL DEFAULT NULL,

 `InTime` TIMESTAMP NULL DEFAULT CURRENT_TIMESTAMP,

 `OutTime` TIMESTAMP NULL DEFAULT NULL ON UPDATE CURRENT_TIMESTAMP,

 `parkingcharge` VARCHAR(120) NULL DEFAULT NULL,

 `remark` MEDIUMTEXT NULL DEFAULT NULL,

 `status` VARCHAR(5) NULL DEFAULT NULL,

 PRIMARY KEY (`ID`))

ENGINE = InnoDB

AUTO_INCREMENT = 30

DEFAULT CHARACTER SET = latin1
```

Modules and Description Of Vehicle Parking Management System:

Book a Parking Space:

In this modules, some submodules are available:

- Home

- About

- Contact Us

- Log in

- Create an account

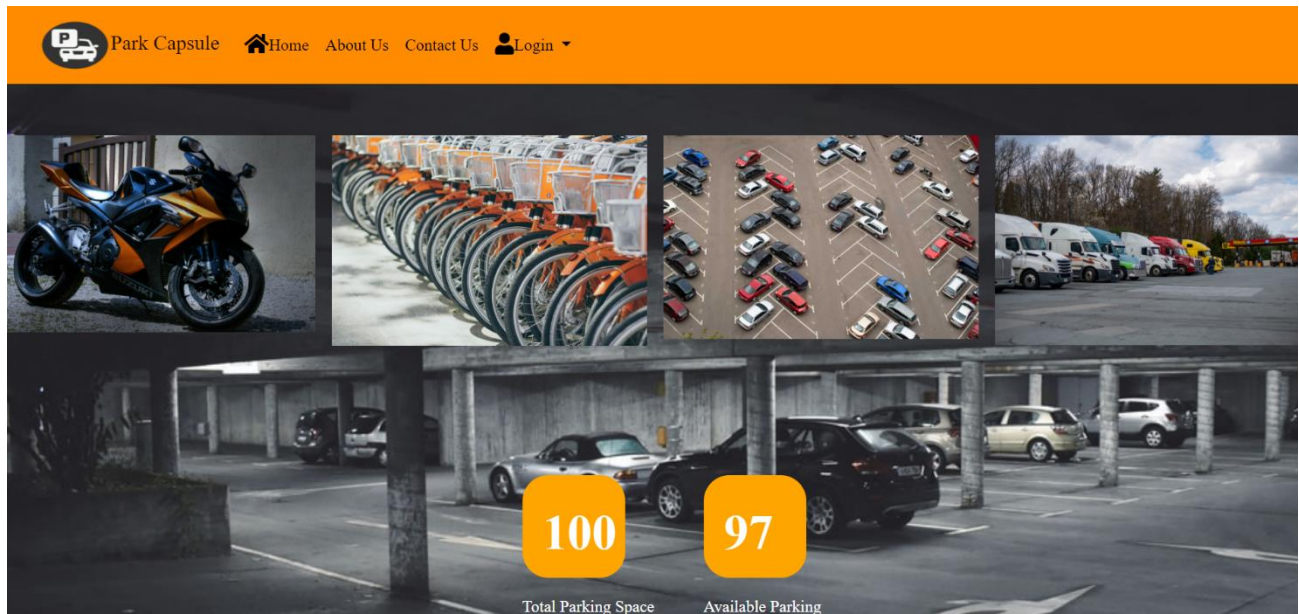**Functional or processing requirements of the system**

Admin :-
1.   Admin login.
2.   Admin can add vehicle category.
3.   Admin can add vehicle.
4.   Admin can manage vehicle category.
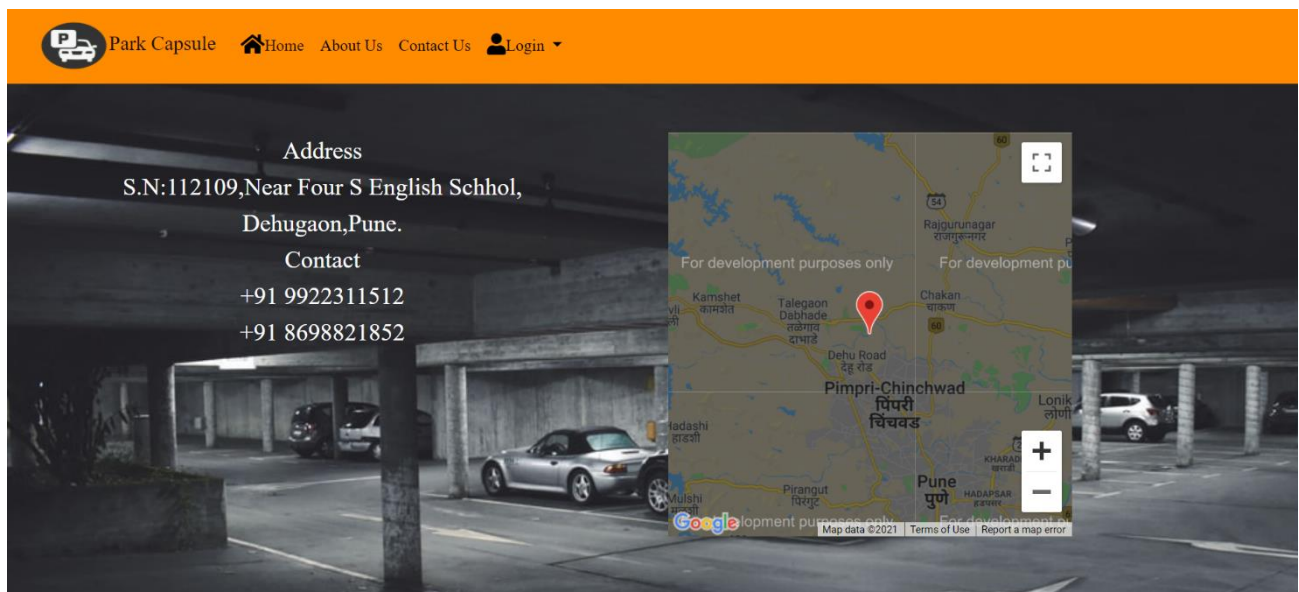5.   Admin can manage in and out vehicle.
6.   Admin can search vehicle.
7.   Admin can logout.

User:-

Registration →login → book parking space →view vehicle status and report →view profile →change password →logout

Input Screen(User)
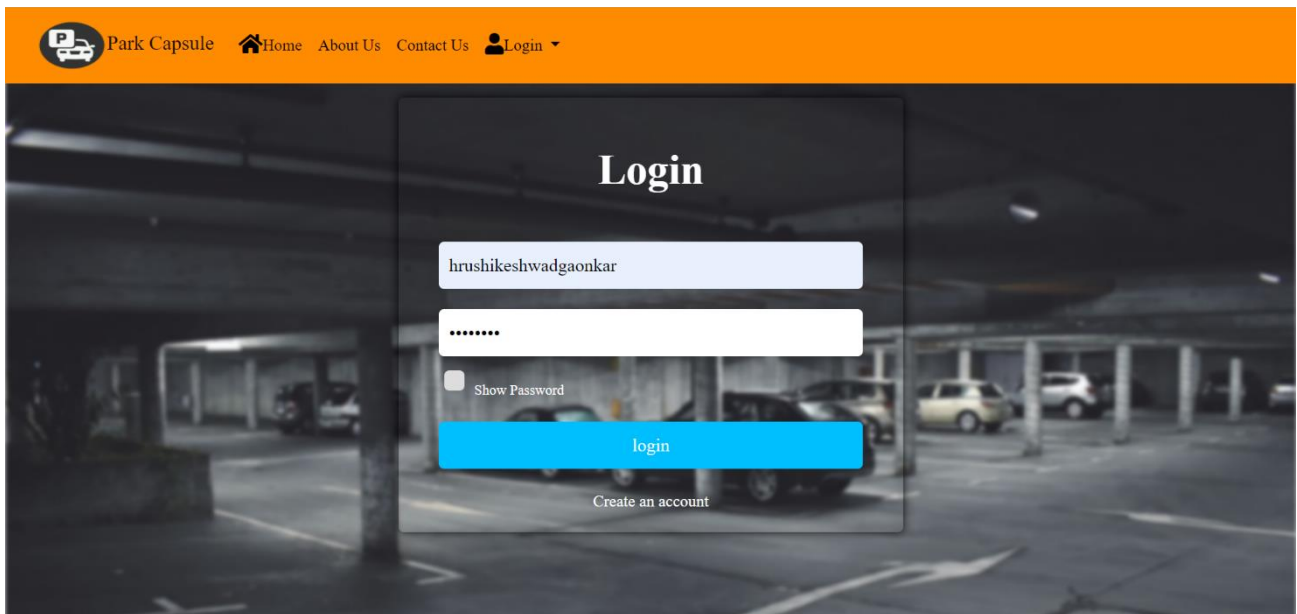
Home: -

Contact US: -
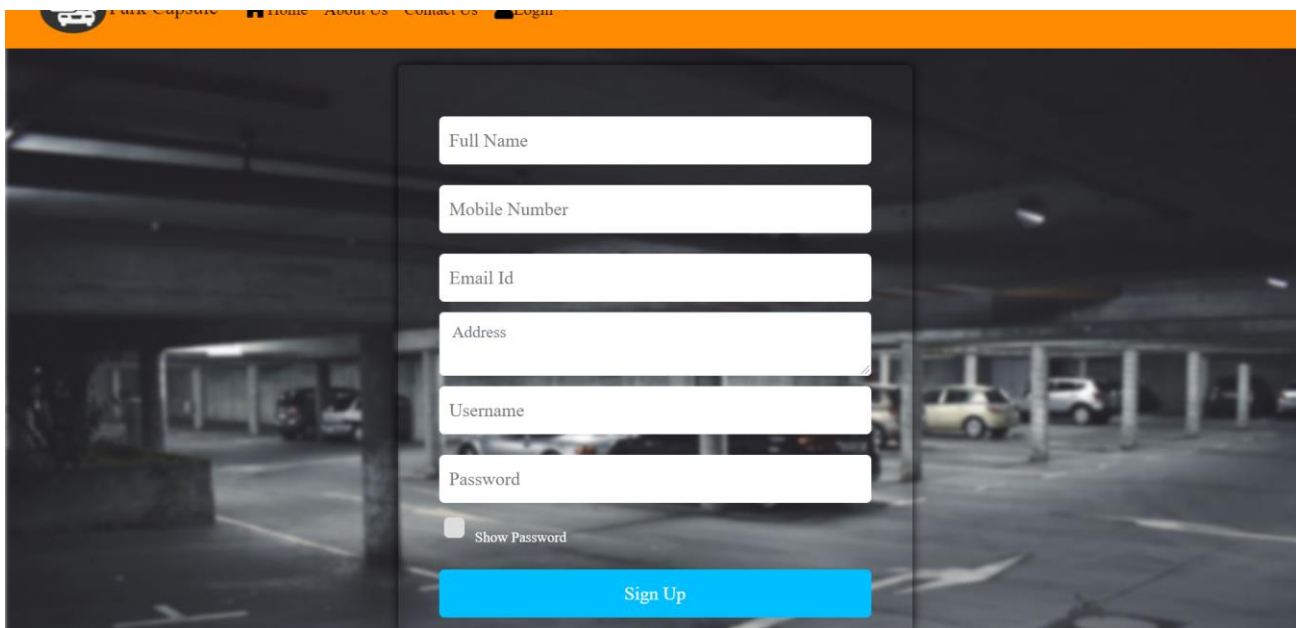
Log in: -

Registration: -

Booking Form: -

My Profile: -

Vehicle Status and Report: -

Manage Vehicle

S.NO	Parking Number	Owner Name	Vehicle Reg Number	Action
11	4973521	Hrushikesh Wadgaonkar	123	View | Print
12	5953491	Hrushikesh Wadgaonkar	123	View | Print
13	1392128	Hrushikesh Wadgaonkar	1234	View | Print
14	2107445	Hrushikesh Wadgaonkar	123467	View | Print
15	1291975	Hrushikesh Wadgaonkar	2345678	View | Print
16	3975393	Hrushikesh Wadgaonkar	23456789	View | Print
17	5747198	Hrushikesh Wadgaonkar	23456789	View | Print
18	8562932	Hrushikesh Wadgaonkar	123467	View | Print
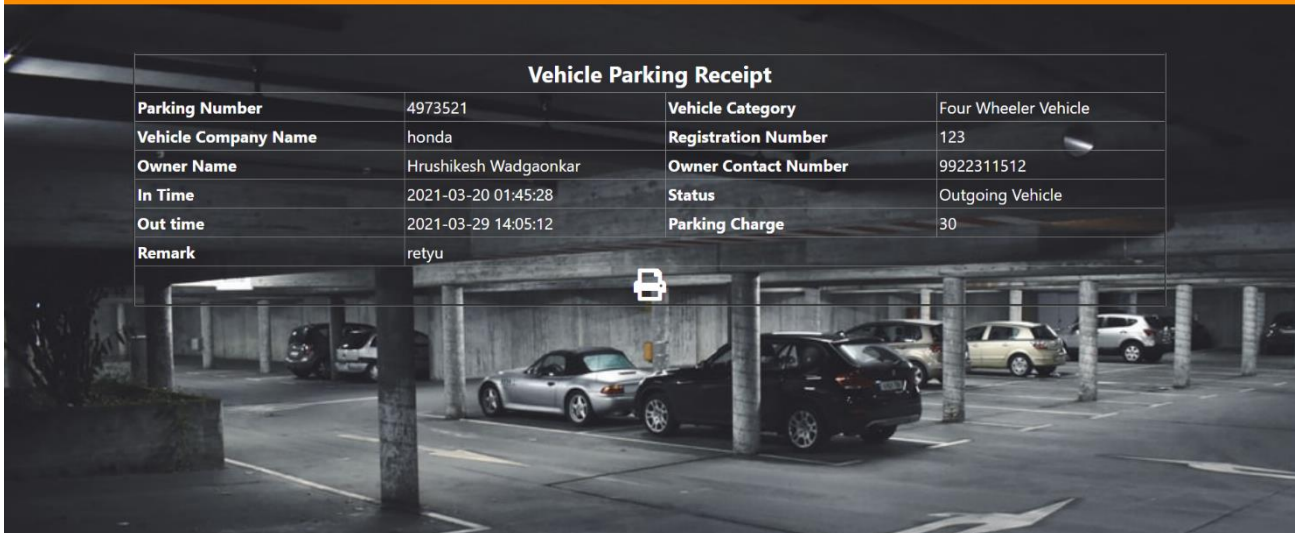
View: -

Parking Number	4973521
Vehicle Category	Four Wheeler Vehicle
Vehicle Company Name	honda
Vehicle Reg. Number	123
Owner Name	Hrushikesh Wadgaonkar
Owner Contact Number	9922311512
In Time	2021-03-20 01:45:28
Out Time	2021-03-29 14:05:12
Status	Vehicle Out
Remark	retyu
Parking Fee	30
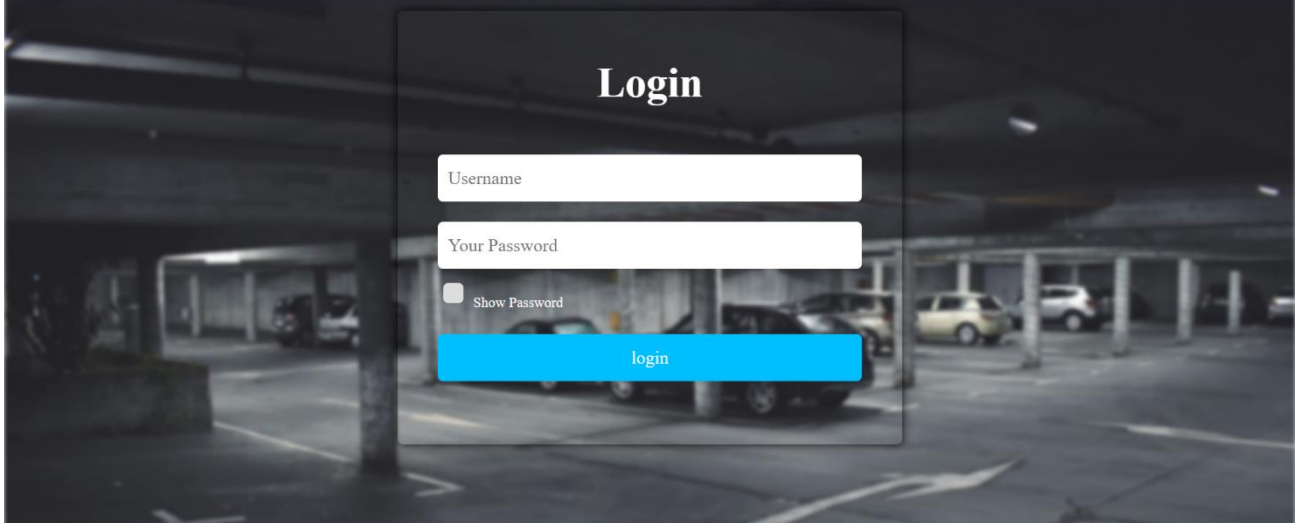
Print: -

Input Screen(Admin)

Dashboard

🚗 6 Todays Vehicle Entries	🚙 0 Yesterdays Vehicle Entries
🚗 16 Last 7 days Vehicle Entries	🚗 26 Total Vehicle Entries
🚗 3 Total Bookings	🚗 100 Parking Seats Capacity

Sidebar Navigation:
- Dashboard
- Vehicle Category
- Add Vehicle
- Manage Vehicle
- Reports
- Search Vehicle
- Parking Seats
- Users Membership

Dashboard

Add Category

Category Name

Vehicle Category

Add

Sidebar Navigation:
- Dashboard
- Vehicle Category
- Add Vehicle
- Manage Vehicle
- Reports
- Search Vehicle
- Parking Seats
- Users Membership

Screen 1

≡

Dashboard

🖥	Dashboard
⊞	Vehicle Category ⟩
⊠	Add Vehicle
⊞	Manage Vehicle ⟩
⊞	Reports ⟩
🔍	Search Vehicle
🚗	Parking Seats
👥	Users Membership

Dashboard   Dashboard / Manage Vehicle / Manage Incoming Vehicle

Manage Incoming Vehicle

S.NO	Parking Number	Owner Name	Vehicle Reg Number	Action
27	9089828	Hrushikesh Wadgaonkar	MH 12 AB 1882	View | Print

Screen 2

≡

Dashboard

🖥	Dashboard
⊞	Vehicle Category ⟩
⊠	Add Vehicle
⊞	Manage Vehicle ⟩
⊞	Reports ⟩
🔍	Search Vehicle
🚗	Parking Seats
👥	Users Membership

Dashboard   Dashboard / Reports / Between Dates Reports

Between Dates Reports

From Date | mm/dd/yyyy 📅 |

To Date | mm/dd/yyyy 📅 |

Submit

Screen 1: Search Vehicle

Navigation Menu:
- Dashboard
- Vehicle Category >
- Add Vehicle
- Manage Vehicle >
- Reports >
- Search Vehicle
- Parking Seats
- Users Membership

Dashboard

Search Vehicle

Search By Vehicle Number [   ]

[Search]

S.NO	Parking Number	Owner Name	Vehicle Reg. Number	Action
27	9089828	Hrushikesh Wadgaonkar	MH 12 AB 1882	View

No record found against this search

Screen 2: Parking Seats

Navigation Menu:
- Dashboard
- Vehicle Category >
- Add Vehicle
- Manage Vehicle >
- Reports >
- Search Vehicle
- Parking Seats
- Users Membership

Dashboard

Parking Seats

Parking Seats [100]

[Update Parking Seats]

Vehicle Parking Management System has been Completed