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# PMS

**(Parking Management System)**



# Life is a journey, but don’t worry you will find a parking spot at the end!

**Project Team Members:**

1. **Sai Chalapathi .Kancherla(Team Leader)**
2. **Radha .Kakumanu**
3. **Galla.Girish**

# 1.0 DOCUMENT PURPOSE

Currently , most of the existing vehicle parks do not have a systematic system. Most of them are manually managed and a little inefficient This project will help the parking lot availability inside the vehicle parking is generally expressed in terms of full or empty on display board at entry of park.Every day ,hundreds of vehicles enter the parking and look for empty slot inside the car park.

Inside most local parking, drivers still need to find out empty parking slot themselves. They will definitely waste a slot time for searching an empty parking slots if they do not know where they are, especially when there are only a few of empty parking slot available at each row of parking slot. Therefore, it is important to have an effective empty parking slot tracking system to display empty parking available at each row of parking slot and guide car driver to there. The development of this project prototype can act as way-finder to guide drivers inside the car park to parking slot  
available inside car park and guides car driver to go there through availability or by booking.

This project includes modules such as

1. Users Login
2. Parking Registration
3. CRUD operations
4. About
5. Contact
6. Log Out

# 2.0 Module Use case

**2.1 Users Log in**

In Users Login module, the user Login page is to access the website

* User name
* Password
* New Users
* Forgot Password

After login, the user will Login to the webpage.

**2.2 Parking’s Registration**

This module contains a parking form , where

* ID
* Name
* MobileNumber
* VehicleType
* VehicleNumber
* Brand
* Vehicle Model
* Color
* ParkingSpotNumber
* Enter Date

which they are going to Create.

**2.3 CRUD’s Operation**

This module contains a new parking form to create, where they fill the form which has fields like ,Here they can edit or delete the details of vehicle when they book for a slot.

* ID
* Name
* MobileNumber
* VehicleType
* VehicleNumber
* Brand
* Vehicle Model
* Color
* ParkingSpotNumber
* Enter Date

**2.4 About us**

This module contains the general information about the webpage that helps the users to understand the motto, objective, vision and mission of the parking website.

**2.5 Contact us**

This module allows the visitor to contact the website Userlogin .This contains fields like:

* Address
* Mail
* Marketing Details

**2.6 Log out**

This module ends the session, if the current user wishes to end the login session. After that, it navigates to Intial user Login page.

# 3.0 Design and Implementation Constraints

**3.1 Database:** The system shall use the MS SQL Server Database, which is open source and free.

**3.2 Operating System:** The Development environment shall be Windows10

**3.3 Web-Based:** The system shall be a Web-based application ASP.Net

**4.0 Define module & Functionality:**

The system functions can be described as follows:

* **User Login:** When the User enters the page, He/She have to login the website. The person can login to website .If the user is not registered then he can click on New User to Register .
* **Parking:** When User Name and password is matched it allows the user to dashboard to enter into website. To book a slot user need to click on Parking . Their user can fill his vehicle details and generate a spot for him and can also edit the vehicle details .

* **Payment:** Here it shows the details of payment for until how many hours has been the vehicle parked according to it will give the details of the vehicle

**5.0 System Requirements**

We will focus on the following set of requirements while designing the parking lot:  
  
1)The parking lot should have large space area where customers can park their cars.  
  
2)Customers can collect a parking ticket from the entry points and can pay the parking fee at the exit points on their way out.  
  
3)Customers can pay the tickets at the automated exit panel or to the parking attendant.  
  
4)Customers can pay via both cash and credit cards.  
  
  
Each vehicle will have many parking spots. The system should support multiple types of parking spots such as two wheeler,3 wheeler,4 wheeler etc.  
  
  
The system should support parking for different types of vehicles like car, truck, van, motorcycle, etc.  
  
Each parking floor should have a display board showing any free parking spot for each spot type.  
  
The system should support a per-hour parking fee model. For example, customers have to pay 10 for the first hour, additional 7 rs for the user who is exceeding 1 hour.

**6.0 Use Case Diagram**

User



**7.0 Use Schema Diagram**

|  |
| --- |
| **New User** |
| NAME |
| Password |
| Submit |

|  |
| --- |
| **USER LOGIN** |
| Name |
| Password |
| New User |
| Forgot Password |

|  |
| --- |
| **Create/Edit/Delete** |
| Vehicle Number |
| Vehicle type |
| Brand |
| Model |
| Spot Number |
| Enter Date |

**Logout**

**Contact**

**About**

|  |
| --- |
| **Parking** |
| Name |
| Mobile Number |
| Vehicle Number |
| Vehicle Type |
| Brand |
| Model |
| Vehicle spot Number |
| Color |
| Enter Date |

**8.0 Role for Team Members:**

**Chalapathi**

**Designed User Login and Registration Page.**

**Designed Parking page and all the Crud operations . integrated all the pages and Designed the Master Layout Page.**

**Radha** **Created Sql database with entity framework , Designed Contact and Logout Page.**

**Girish Designed Html Pages for all the Views that’s created. Designed Payment Module Page. Designed About us.**

**9.0 Technical:**

* Html
* CSS
* BOOTSTRAP
* JQUERY
* SQL
* MVC
* DATA ANNOTATIONS

**10.0 Conclusion**

Adopting parking management system significantly reduces the amount of time consumed in seeking the parking space, renders valuable data upon the availability of the parking area, accurate mapping of the parking space, offers guidance and suggestion for proper vehicle parking