

VEHICLE PARKING MANAGEMENT SYSTEM

Project Synopsis Submitted

to

MANIPAL ACADEMY OF HIGHER EDUCATION

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Of

Bachelor of Technology

in

Computer and Communication Engineering

by

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MANIPAL INSTITUTE OF TECHNOLOGY
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Vehicle parking management system

Objective:

This project aims to develop a “**vehicle parking management system**”.

The car parking management system is an application that stores, processes and examine the data about the number of parking slots available in that building. It can be used in malls, concerts and in residential areas which require a proper parking management system. our system can be used to discover the number of parking's available in a specific place that we want to visit, and it allows the users to register their parking slot in front and so that they don't face any issues .The intension of proposing such a system is to reduce the time consumption taking place in the billing system of the parking and to help users provide safety for their car.

Scope:

In the modern age, many people have vehicles. Vehicle is now a basic need. Every place is under the process of urbanization. There are many corporate offices and shopping centres 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.

Project Description:

A parking area is a place where many people manually give the tokens and collect the tokens and charge them manually either by timely basis or a fixed charge and the users registration is done manually by the staff working there which consumes a lot of time and work force by our system the user can register to application through which the users information will be saved in a data base.

Which would be easy for the management of the parking to record the entry of a particular user and the data of the parking slot booked by the user will also be shown to the management by which they will be able to reduce their work force and increase the efficiency of the parking system.

This system is very useful in modern world, where space has become a very big problem. This system is also used to reduce the wastage of area.

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: -

The most important record which focus in our database “vehicle parking management system”. It stores the essential Vehicle records like:

- Vehicle Number
- Vehicle Type
- Vehicle Entry Time
- Vehicle Exit Time

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.

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.

Hardware Requirements:

Processor: INTEL(R) Core (TM)i7-1065G7CPU

Processor speed: 1.30GHz 1.50GHz

RAM: 16.0GB

Hard Disk: 20 GB Hard disk or Above

Software Requirements:

Language: C#

Database: Oracle

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