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 ijircce@gmail.com

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Efficient Online Parking Booking System

Prof.Yugashree Bhadane_Sanchit Surve , Ajay Kamble , Gauri Nagvekar , Hemant Pal

Department of Information Technology, Dhole Patil College of Engineering, Kharadi, Pune, India

ABSTRACT: In cities where the population is at its peak and the roads are all messed with vehicle's and long traffics. In such over increasing population it becomes a difficult job to find a parking spot for our vehicle. We came up with an idea where users can logon to our Web Application and find the ideal parking spot. Our project Online Parking Booking system is developed in Java, MYSQL. With this the users save's both time as well as fuel. The user can easily view the parking availability on the web application and drive straight to the spot without wasting any time. Users can view the pricing details for parking their vehicles. In this project the user can able to park the vehicles according to their time slot and also the admin who manages all these parking will be very easy to manage all these. With such a system the parking authorities can easily manage their parking spaces efficiently.

KEYWORDS: Efficient Parking Slots Bookings, UML, Database management, Parking availibility.

I. INTRODUCTION

In the 21st century finding a free car parking slot has become a mind-numbing process, especially for people who travel in the morning to work or are following their daily routine, they find it highly difficult and challenging to get a parking slot for their cars. Moreover, the parking slots are never user-friendly and provide no logical data about the availability of the spot unless the user visits it manually. These kind of problems are faced regularly by every individual because the factor of uncertainty is very high and there are not many possible solutions in existence for solving the issue that may benefit the users by saving their time or keeping their mental state happy and carefree. In our ever populating cities and districts to find parking space is becoming increasingly difficult as traffic increases. Drivers have to go back and forth desperately looking for parking spaces wasting their valuable time, fuel consumption with increased likelihood of causing accidents. In the existing system we can see that some supervision is required for the parking system and it not fully automated. The driver has to make sure that the car is parked in a spot without disturbing the convenience of others. In most cases the main problem is finding the spot and trying to secure the spot for parking which in turn leads to increased stress level for the person driving the car. Moreover, the relative analysis of the data is structural to the implementation of the parking procedure. Nowadays, in this busy world it's really hard for a person to find a spot for parking. The current parking system doesn't give the user a specified parking slot inside the area. Parking in general in a long and time consuming process and we hope to provide a solution to alleviate this problem.

II. RELATED WORK

MODULES:

- ❖ User Login
- ❖ Admin Login
- ❖ Parking Availability
- ❖ Automatic Cost calculation

MODULES DESCRIPTON:

User login:

Users have to first register themselves to login into the system. In the registration of user page should be filled with the details of Name, Data of Birth, Email ID, Gender, Phone Number, Address and Password. After clicking sign up, the user registration will be made successful. With the details of registration made, the user login should be done. Checking the authorization, the user will be logged in to the system. After logging it, the user can able to see the Parking Cost, Book Parking, Your Booking details.

Admin Login:

The system is under supervision of admin who manages the bookings made. Once after the admin logged it, the admin can see the parking cost, View User details and View Bookings. Only the admin has the privilege of modifying the parking cost. Also admin can view the user details. And also the admin can view the complete booking details with the cost etc.

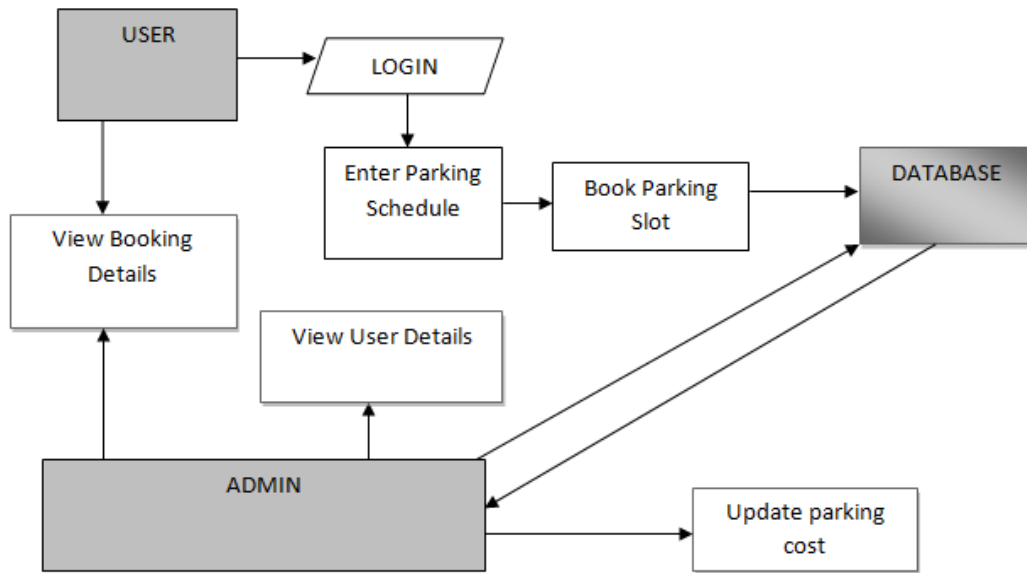
Parking availability

User can click on spaces to view the availability. If the space is already booked it will be marked yellow and the available ones will be seen in normal color. Parking booking online for date and time: Users can book parking space for their required date and time. User cannot select the slot if the booking is already done by some other earlier.

Automatic cost calculation:

The system calculates the total cost incurred for parking based on the time that user has asked for booking. In the user login, the option: Book Parking is available. In this the user enters the details of Date, time, and parking hours. After entering the details, the hours are calculated automatically and the final amount is displayed. The user no need to calculate the amount and enter it manually.

III. METHODOLOGY



IV. CONCLUSION

In this modern world, with the rapid growth of population vehicle traffic has become a part of our day to day life. Moreover, unauthorized vehicle has also increased. Thus our proposed system aims to ensure proper management of vehicles in the public places such as educational institute, office etc in order to prevent unauthorized vehicle parking and traffic. The features include viewing the parking spaces, selecting the space with the required date and time, paying the parking bills etc.. Online Parking Booking System is sure a complete web application for making the parking management easier and simpler in an effective way.

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