

Parking Booking System

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Abstract:- In metro cities, the population is very high and the roads are complete of automobiles and lengthy cars. To this kind of large population it becomes hard to find an area to park our motors. We have provide you with an idea wherein customers can log into our net application and locate the right parking area. Our online parking booking application for the mission is based totally in Java, MYSQL. With this the users save both time and gasoline. The user can effortlessly view the parking space within the net utility and force without delay to the area without wasting time. Users can view car parking charge details. On this challenge the person can park the automobiles on time and the supervisor in fee of all of the parking areas will be a great deal less complicated to control all of those. With this kind of plan the parking government can effortlessly manage their parking areas.

Keywords:- Parking booking, Scheduling parking, DBMS, update and calculation cost.

I. INTRODUCTION

Nowadays finding free space for parking has become a frustrating process, especially for people traveling early in the morning to work or following their daily activities, finding it extremely difficult and challenging to find their own car park. . In addition, parking spaces are not easy to use and do not provide reasonable data about location availability unless the user has personally visited them. These problems are often faced by everyone because the uncertainty factor is very high and there are not many problem-solving solutions that can benefit users by saving their time or keeping their mood happy and carefree. In our densely populated cities and districts, finding a parking space becomes increasingly difficult as traffic congestion increases. Drivers should go back and forth looking for parking spaces and spend their precious time, fuel consumption and potential accidents. In the present system we see that certain precautions are required in the parking system and are not fully compliant. The driver should make sure that the vehicle is parked in the area without disturbing others. In many cases the biggest problem is finding a place and trying to protect the parking lot which leads to increased pressure on the driver. In addition, data-related analysis is systematic in the application of the parking process. Today, in this busy world, it is very difficult for anyone to find a place to park. The current parking system does not provide the user with the specified parking space within the area. Parking is usually a long-term process and we hope to provide a solution to alleviate this problem.

II. RELATED WORK

A. MODULES:

- Consumer Login
- Admin Login
- Parking Availability
- Automated cost calculation

B. MODULE DESCRIPTION:

a) Consumer login:

Users ought to first sign in to enroll in the device. To check in a user page you have to fill in the details of name, beginning information, electronic mail identification, Gender, phone number, deal with and Password. After clicking the subscription, consumer registration may be accomplished correctly. With the registration info created, user login must be carried out. Checking authorization, user will log into the device. After logging in, the person can view the cost of Parking, reserving e-book, your reserving details.

b) Administrator sign-in:

The gadget is below the control of the controller that handles bookings made. After the administrator logs in, the administrator can view parking expenses, View consumer information and think about Reservations. Most effective the manager has the proper to trade the value of parking. And the administrator can view user details. And the administrator can view complete booking details on fees and so forth.

c) Parking availability:

The person can click on on the areas to view the provision. As soon as booked the distance may be marked yellow and the existing ones will appear in normal color. Reserving on line parking by using date and time: users can e book online parking at their required time and time. The consumer cannot pick out a place if the booking has already been done by means of a person else earlier than.

d) Computerized cost calculation:

The plan calculates the whole value of parking primarily based on the time the consumer requests the booking. At user Login, option: e book Parking is to be had. In this the consumer enters the details of the date, time, and hours of parking. After getting into the info, the hours are calculated automatically and the final price is displayed. The person does no longer need to calculate the price and input it manually.

III. METHODOLOGY

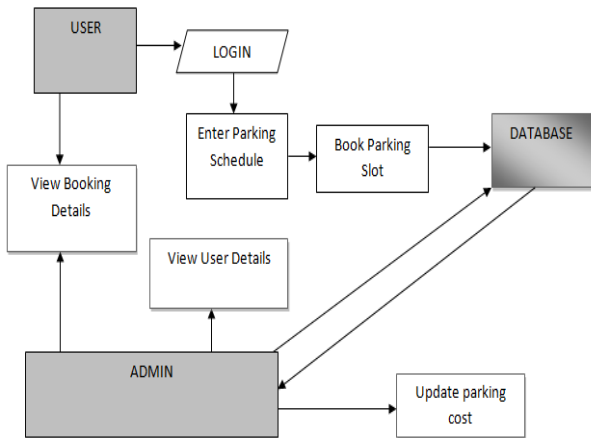


Fig. 1

IV. RESULTS AND DISCUSSIONS

The proposed methodology for implementing anParking Booking System has been developed utilizing the Netbeans8.2 IDE and the Java programming language. The proposed methodology has been developed on a machine running on an Intel Core i5 processor assisted with the500GB of hard drive as storage and 8 GB of physical memory as RAM. For maintaining the database, the MySQL database server is utilized

A. Home Page:

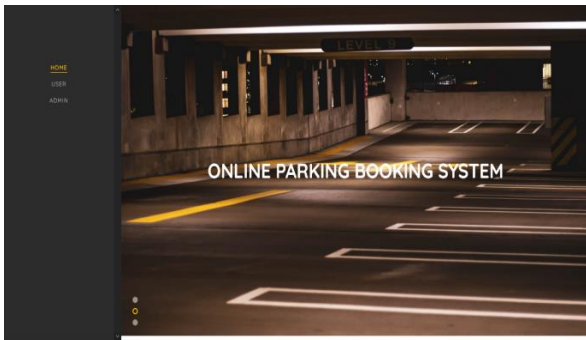


Fig. 2

B. Administration Sign in & User Login:

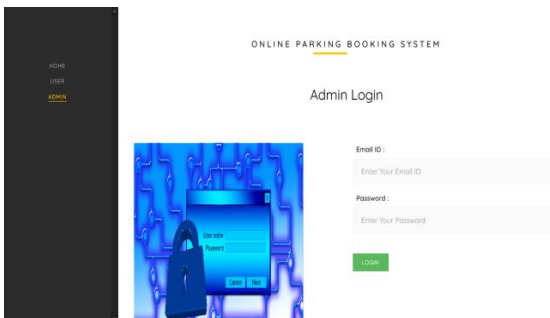


Fig. 3

C. Person Registration:



Fig. 4

D. Parking Cost Calculation:

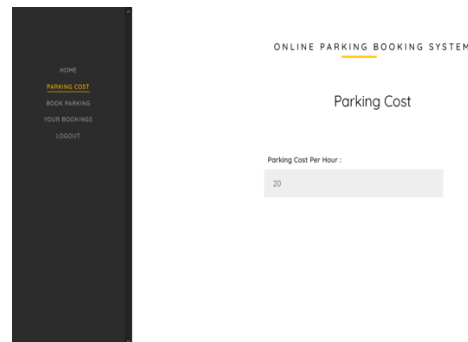


Fig. 5

E. Parking Slot Booking:

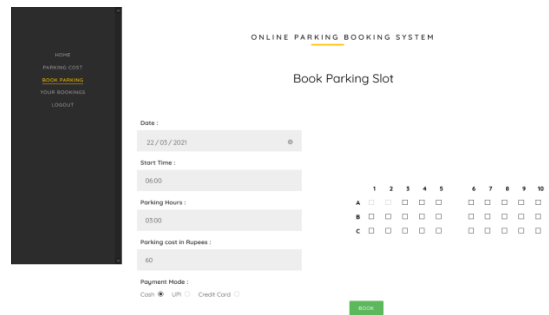


Fig. 6

F. Booking Details(Consumer):

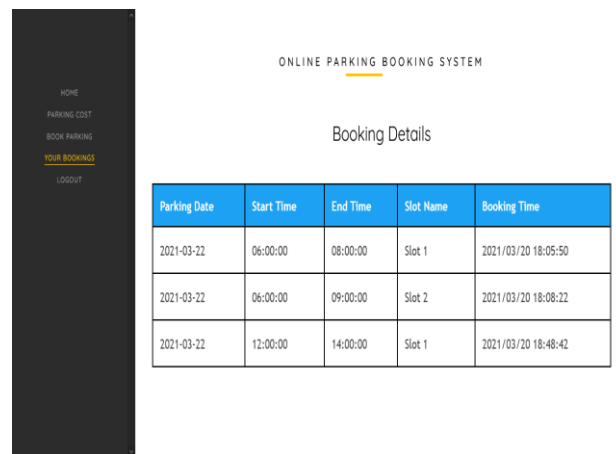
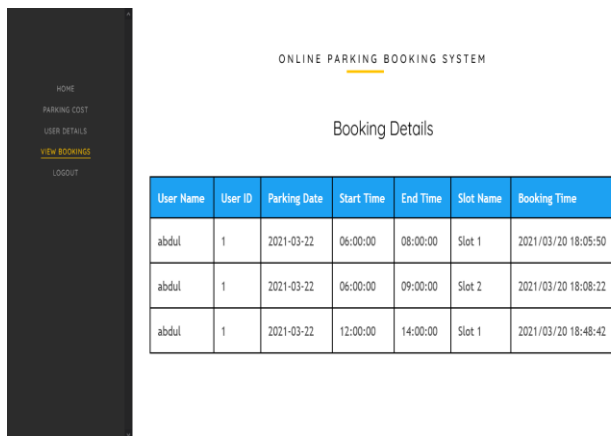


Fig.7

G. Booking Details(Administration):



The screenshot shows a web application interface for an 'ONLINE PARKING BOOKING SYSTEM'. On the left is a dark sidebar menu with options: HOME, PARKING COST, USER DETAILS, VIEW BOOKINGS (highlighted in yellow), and LOGOUT. The main content area displays the title 'ONLINE PARKING BOOKING SYSTEM' and 'Booking Details' above a table with the following data:

User Name	User ID	Parking Date	Start Time	End Time	Slot Name	Booking Time
abdul	1	2021-03-22	06:00:00	08:00:00	Slot 1	2021/03/20 18:05:50
abdul	1	2021-03-22	06:00:00	09:00:00	Slot 2	2021/03/20 18:08:22
abdul	1	2021-03-22	12:00:00	14:00:00	Slot 1	2021/03/20 18:48:42

Fig. 8

V. CONCLUSION

In today's world, rapid growth has become part of our daily routine. In addition, unauthorized vehicles are also common. So our proposed plan aims to ensure the proper management of vehicles in public places such as educational institutions, offices etc to prevent unauthorized parking and traffic congestion. Features include viewing parking spaces, selecting a date and time required, paying parking bills etc.

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