

Survey on Book My Slot System

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Abstract- In current times the concept of smart cities have gained great popularity. Problems such as, traffic overcrowding, limited vehicle parking facilities and road safety are being addressed by growing population and their need to travel on vehicle. The proposed Smart Parking systems signalize the state of availability of each single parking area. A mobile application is also provided that allows an end user to check the available possibilities of parking area.

The paper also describes a Attractive view of the system architecture. Towards the end, the paper discusses the working of the system in form of a use case that proves the accurate of the proposed model. Two types of parking systems, booking based, and reserved have been introduced, deployed, and tested in different scenarios. The Attractiveness of the proposed architecture, together with the proposed algorithms, is assessed in field trials.

Index terms- Book, Unbook, Payment

I. INTRODUCTION

Smart parking system is designed to make it easier for people to book parking spaces online. Our online parking reservation system will instantly enhance your website by enabling customer to reserve parking spaces, buy extra services and pay online from home or on the go. Smart parking booking system admin can add as many car space type as they need , set availability periods and price, launch promos and discounts.

The vehicle holder keeps searching for suitable parking lot which leads to increase in traffic. Hence reservation-based parking has become the need of the day.

Severe problems with traffic congestion in city centers.

- Assuming of system to help finding vacant places in malls.
- Impressive data concerning circulations to find Place.
- Micro i/o has a successful project related with mobility.

II. LITERATURE REVIEW

- [1] Smart parking system (SPS) that is designed to make it easier for people to book parking spaces online. Our online reservation system to reserve parking spaces in the immediate parking, additional services and home purchase will increase your website by enabling customers to pay or go online. As they need, and to set the period of availability can add many types of vehicle seats as SPS administrator It is designed to make it easier for people to book parking spaces online. Availability and prices can add up for a period of several vehicle types as vehicle parking space reservation system administrators as they need. In today parking lots there are no standard system to check for parking spaces. [1]
- [2] In this article, we will mainly focus on the design of the new driver smart parking system that help to find parking space in the district specific parking. In addition, it is necessary to promote the goal is to reduce energy consumption and reduce pollution a traffic looking for parking.[1]
- [3] The existing, the very first common problem in which most drivers are facing would be parking issue. In india there are typically two type of public parking facilities provide –parking meter and car park .there are about maximum no .of space provided by parking meter , which are locted on- street where they do not abs , and an

approximate maximum spaces provided by various car park .[2]

[4] The Smart parking system project will partially remodel the public off-street parking system so that only the authorized users can use these facilities and only these users can be reserved the parking space. First, the users can register at on the Smart parking system and also book the vacant parking slot. In the rest of the paper, we will refer to an on- street public space managed by area parking spot/space.[2]

[5] Three components in the system, including parking lots, users and the management system. The management system determines the dynamic parking prices based on real-time parking information, and broadcast live parking prices to users (also vehicle holder). According to his budget constraint and convenience degree, the parking decision would vary by user. As a result, the state of parking resources is changed by users parking decision.[3]

[6] With the model details as given above, we now present the design of Parking System. The various components of our design are closely inter-related. Given this interaction, we first present the design concerns of the system in this section, before oprating on to the details in following sections.[3]

III. EXISTING SYSTEM

Along with the sustained economic recovery in India these year [3,4,5], and the rise of information technology ,the quality of life has be improving and people begin to demand more. To improve the quality of life, one might easily think of and start with the four basic necessities of life.

The very first common problem in which most driver are facing would be parking issue. In India, there are typically two types of public parking facilities provided – parking Meer and car park.

As we all know that the world population is increasing day by day and automation is also leads to growth. So the entire world is facing a problem of vehicle parking. There is no space for vehicle parking easily available in everywhere. The three main problem that the increasing number of vehicle and decreasing efficiency of busy parking slots are.

- Valuable time vested from inconvenient and inefficient parking lots
- More fuel are consumed while idling or driving around parking slots, leading to the more co2, emission being produced.
- Potential accidents caused by abundance of moving vehicle in disorganized parking lots.
- More and more multistoring building and springing of every day thus giving rise to parking problem. Thus there are storage of land which leads to cutting down of trees and deforestations.

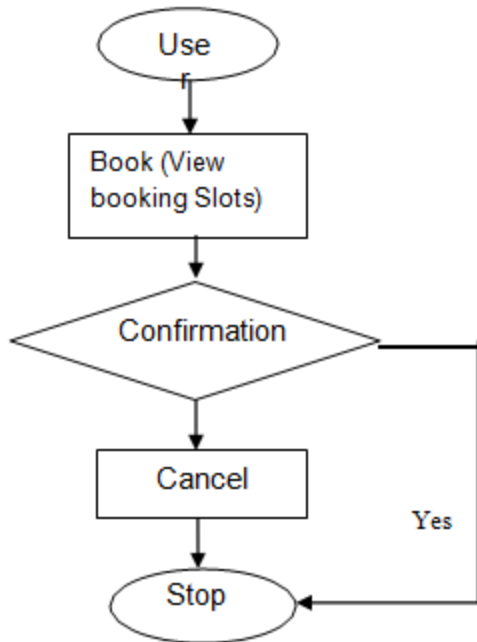
IV. PROPOSED SYSTEM

The Smart parking system project will partially remodel the public off-street parking system so that only the authorized users can use these facilities and only these users can be reserved the parking space. First, the users can register at on the Smart parking system and also book the vacant parking slot. In the rest of the paper, we will refer to an on-street public space managed by area parking spot/space.

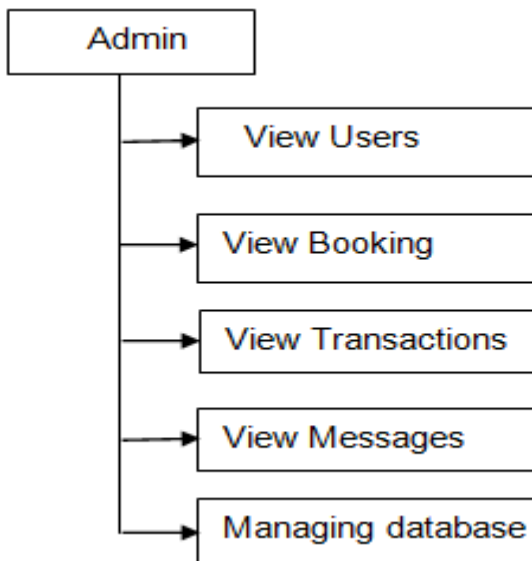
- First, Reservation confirmation with Specific code can be sent only to the authorized customers.
- Second, A reservation is held for a grace period (e.g. 15 min) after the start of the reserved interval in order to account for customers who do not show up in time. If the customer arrives within that period he will park his vehicle to his reserved area.
- Third, if the customer can arrive anytime between the grace period, a vacant and unreserved spot will be offered for the remaining period if any free space is available although he has to reserve a new space.
- Fourth, No-show customers will not be billed for the canceled reservation. On a further modification of the project, If the customer fails to clear their parking slot at the scheduled time then he can pay the additional charge.

V. FLOW DIAGRAM

USER SIDE



ADMIN SIDE



VI. ADVANTAGES / DISADVANTAGES
ADVANTAGES

- There is a greater sense of security due to the fact that patrons do not actually walk to and from their own space.
- There is no need for driving while looking for an available space.
- The patrons wait for their car in a highly controlled environment.
- There are less chances for vehicle vandalism.

DISADVANTAGES

- It Use of redundant systems will result in a greater cost.
- May be a bit confusing for unfamiliar users.
- There is an uncertain building department review and approval process.

VI. CONCLUSION

In this thesis, we have developed a new Reservation-based Parking System to optimize parking management. We have proposed a dynamic pricing scheme for satisfying the different needs of vehicle holders and service providers, which is based on real-time parking information. The pricing scheme is integrated with the Smart Parking system SPS in which parking price is dynamically adjusted in response to the relationship of demand and supply and congestion level. Upon receiving parking prices, vehicle holder make their reservations to maximize their benefits according to the utility function. Based on the obtained results from our simulation study, we conclude that the Smart Parking System SPS system increases the revenue for service providers, provides service differentiation for users with different needs, alleviates traffic difficulty caused parking searching and reduces the amount of traffic searching for parking.

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