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QRCPM (QR code car parking management)

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ABSTRACT

The era of mobile technology opens the windows to the android application. The websites are vanishing and the mobile phones applications are emerging it. It's the time to change from conventional websites to apps. The "QRCPM app" is an android application developed in the android platform for maintain the car parking billing system into automated. This project QRCPM is mainly used to automate the underground parking billing system by using online mode to pay. It will reduce the time consumptions and paper work. Although various methods for car parking system are exist, they can serve only a few users because it is difficult for waiting to pay a bill at a time. So the aim of this study is to provide dynamic solutions by introducing the concept of QR code billing system as much as required. These systems run on mobile platform and provide a details of parking sites. By using this application we can easily get details about the customers. We can able to calculate the amount by using application without using any human work. Handler can only use this application so by using this we can easily passing the information forms one end to another end. So time consumption will reduced to the users.

INTRODUCTION

Two decades ago, parking was not a problem since each family possessed less number of vehicles and there was more space thereby parking vehicle never caused any inconvenience. It was also the time when parking on roads was not prohibited. Now with the boom in the production of vehicles, diminishing parking spaces and possession of more number of vehicles by an individual, parking has become a huge problem across the world. Lot of time is wasted in finding a parking slot. Parking in garages is very expensive. All these problems are overcome by appointing a human to look into these problems and assist people find a slot, then calculate the bill for that period. Therefore parking requires an eye 24*7. As the world is progressing into more digital age, requirement of automation of tasks without human

support is increasing. In this paper, we tried to develop a system to minimize human efforts and consumed time by proposing a QR code based parking system which will be fit for underground parking. The application will scan the QR code token and entering the details of the customer what we need. QR code being unique brings a lot of information. This way we provide the permission to the vehicle owner to park the vehicle in the parking space. The system does not require a person to sit down and manually enter the details of the vehicle thus savings a lot of time by speeding up the manual problem.

EXISTING SYSTEM

In existing system car parking is done by manually. They use mind calculation for their billing and they use lot of paper to distribute a

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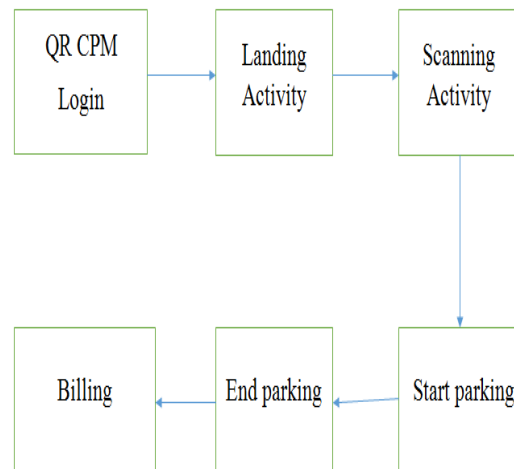
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token. The human work is increase lot in those pervious days. On previous days the parking on roads are not prohibited. So working in the parking place is much minimize but nowadays the parking on roads are prohibited, so people are used the parking sites much more compare with previous days. So, human work is increased. Lack of parking places also increasing the time consumption of people. On the flow manual work increased to overcome this is the main target of this project. They were using token system to collect the amount from the customers.

PROPOSED SYSTEM

In proposed system we are try to overcome the existing system. Using QR code scanner easily

DATA FLOW DIAGRAM



MODULES

Login

The first and foremost default user name and password generate automatically. After their successful login they land into main application.

On their process they can easily change their username and password. When they logout their page they use their new username and password to login.

Authentication is successful and the user is directed to the application landing page. Authentication fails and the user remains on the login page. If authentication fails, the application

getting the user details by this application. After getting details them customers can have able to park their vehicle on their particular slot. After they finishing their work their billing process will generate automatically. Customers use any online mode of pay to billing their amount. Proposed system is used to reduce the manual work done on previous days. It will reduce the time consumption and also it will reduce the paper cost. Proposed system mainly used to automate the work on the parking site. By using this application customer details are easily maintained on their particular android operating system.

screen should show an informational or error message about the failure.

Landing Activity

In this field the handler can easily know the details of the cars. In that they show the parking details on the particular slots. On each and every slot details are stored on database automatically. By using this module we can easily know about the customers details.

Scanning Activity

This module is run after the customer entry on the parking place. Handler scan the QR token and enter the details what we need about customers

after entering the details token will hand over into customers. When the customer scan that QR code some message are display on that page.

Start parking

After getting the token user can park their vehicle on their particular slot. The slot number is display on that QR code token backside.

End parking

After finishing their work they start their end parking activity. On that time they hand over that QR code token into handler.

Billing process

After getting the QR code token they rescan that to billing process. On that process application display the customer details and also timing of

their in and out process. And also billing of that particular timing.

CONCLUSION

These days it is important to make use of technology to ease our lives. Simple day to day problems which are increasingly becoming massive obstacles can be solved by making use of technology. QR being the unique codes brings in a lot of information and solves the problem allocation spaces and billing the process. Using basic technologies to achieve this application into more compatible and user-friendly system. This ultimately reduce the time that every customers spends for billing which then reduce the fuel consumption, traffic volume and environmental pollution by increasing the efficiency of transportation.

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