DIGITAL BUSPASS USING QR-CODE

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ABSTRACT

Digital Bus Pass uses QR Code "helps the user to get the bus through the internet instead of standing in long lines to get their pass. This program is useful for reducing our workload. Provides an effective database management solution. The passing generation of digital buses is useful for people who are having trouble with the current bus manufacturing strategy. This consists of two entries for one administrator and one for the user. The user needs to register by posting his / her information online. Thus, the user can easily access his or her information to log in. The bus driver can get his details about the passing of the bus by simply scanning their machine. This project has various pages and was developed with the help of ASP.Net as the main site and SQL SERVER as the background.

Keywords: Asp.Net, Sql Server, Scanner

INTRODUCTION

The project is made up of two people: the controller, and the user, all of whom are key players in the process of producing bus passes. Users must register by posting their information online to obtain their bus pass.

Digital bus pass is also done by scanning the QR code obtained by the user's registered email. QR code contains user information such as username id, source, Location, start date, expiration date etc. When the QR code is scanned, it generates a message whether the bus pass is valid or not. If found appropriate, it will provide details of the user's pass. This application demonstrates a trustworthy relationship between users and administrator

EXISTING SYSTEM

The current bus pass generation system that has been used for so long.
This system is a man –handling process.
There are lot of mistakes happening while allocating and generating bus pass.
This existing verification process causes delay for users in getting their bus pass on time.

PROPOSED SYSTEM

This system consists of application form in website where the passenger can apply for pass in online and renew it.

Its is helpful to reduce the paper work.

The user can get the bus pass in simple and faster way.

LITERATURE REVIEW

1. By Luka Finzgar and Mira Trebar "Use Of NFC And QR Code Identification In An Electronic Ticket System For Public Transport". This paper describes the implementation of a system, which enables the use of phones for acquiring electronic public transport ticket. QR codes and RFID tags are used for registering passenger at the beginning and at the end of their journeys. The development of mobile applications was done by using two modern technologies, mobile operating system Android and Near Field Communication (NFC). A passenger can see the amounts charged for a ticket and other information, like departures. Moreover, a conductor can use the Android application to check the validity of the tickets. Beside the possibility of getting an electronic ticket, which is stored on the phone, a website was built to enable new users of this system to register.

2. By James Smith and Mark Stevenson "Smart Buss Pass System Using Android Application". This project is created to provide timesaving, comfortable and safe services for students. Due to the drawbacks that are present in the existing system, we got the idea of doing this project of generating the bus pass through online which can help students in a better way. In the existing system students had to do each and every process manually, but this project helps student to make their work faster and easy. Students can buy the bus pass through the internet. This system is also used to the save the student's time. The students can pay to buy bus pass through Credit Card and Net banking.

3. By Anitta Parks and Steward Clifford "Online Facility of Ticket Booking and Generating Bus pass Using QR Code". This online Bus Pass and Ticket Generation System is a web application which is beneficial for the regular passenger of a city who are facing problems because of the record or register facility in the bus depots. Because of the increased growth in technology, peoples are changing them with improved technology and contributing in the digital world. This system is developed to facilitate to provide efficient, inexpensive, well grounded, well planned and comfortable usage of this application for Nagpur city commuters. The heavy rush in the bus depots causes lengthy waiting time for the registration of the bus pass and also to get them. This application offers the facility to get bus tickets and bus pass with the help of an android mobile application.

METHODOLOGY

The project entitled" DIGITAL BUS PASS QR – CODE" is done using ASP.Net as a front end and SQL SERVER as a back end.

MODULES DESCRIPTION

Registration

In this the passenger have to fill a valid credentials which contains his/her for creating an account. Once the account is created the passengers can be allowed to Passenger login form. Each passenger form includes the passenger id, Passenger name, Communication address, Email id, mobile number, username and password.

Login

In the passenger login form, the passenger has to enter the username and password to log into the system. The entered username and password has been validated with the database and once the authentication success, the system allows the passenger to move to the main form.

Bus Pass Generate

In the bus pass generate form, the passenger has to fill out the details. Each Buspass records holds the details such as Bus pass id, passenger id, From Location,To location, Issued Date, Address, Valid Up to and Passenger image.

Bus Pass Renewal

The bus pass renewal user should login with their given id no and password. When an user is authenticated, he/she can perform the renewal month of existing pass. Once the payment process is done users pass will be automatically renewed

Payment

In the payment form, the server automatically increments the payment number,payment date and the selected month including the username in the availabletext boxes. In addition, the user has to enter the card type, card number, CVVnumber, banking password and the amount. The details has been allowed tostore in the centralized database.
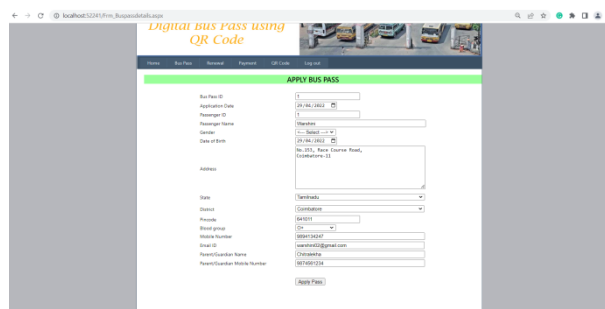
4. Home Page

Passenger Registration:

Apply BUS PASS:

Payment:

FUTURE ENHANCEMENT

It also provides knowledge about the latest technology used in developing web enabled application and client server technology that will be great demand in future

The proposed Digital Bus Booking System will be enhanced with mobile application.

GPS Tracking facility will be enabled in future developed system.

Bus routes details will be added.

Discount Vouchers and Coupons will also be added.

CONCLUSION

In our system we provide the QR Code as a bus pass which is generated to passenger account. This project offers user to enter the data through simple and interactive forms. Data storage and retrieval will become faster and easier to maintain because data is stored in a systematic manner and in a single database. The complete bus pass creation process is done online in this project. As a result, anyone may quickly apply for and renew their bus pass in a simple and straightforward manner.

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