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Smart Bus-Pass System using Android Application

Mushahid Sayyed[1], Shahin Pathan[2], Payal Hajare[3]
[1, 2, 3]*BE (COMPUTER), PK Technical Campus, Chakan, Pune*

Abstract: The main aim of this paper is to introduce the android based app for registration and renewal of bus pass.it is very easy process for passengers to apply for bus pass. We have added the online payment option for the users to apply bus pass. Passengers don't have to go to bus depot for bus pass and it reduces the paperwork.
Keywords: Android Application, Online payment, User, Security, Route searching, Time saver.

I. INTRODUCTION

This paper has proposed a facility to generate bus pass through online process using android mobile application. This application provides a facility of ticket booking from home we don't need to go to bus station. We have added reminder facility in project, it means when pass will expire then it will remind to users about bus pass renewal. First of all user has to download this app in this mobile. User has to do registration for bus pass where he has to fill all the required details for registration. After the successful registration user has to login for apply bus pass. After that user has to make online payment to for bus pass. After applying for bus pass admin will approve or reject that bus pass application. After the successful process pass will generate which we can show to conductor. Conductor will verify that pass by using unique pass id. We have used Aadhar based authentication for verification and security. Online system is required for digital and faster process. This application allows user to get online information about bus roots and it also gives current location facility of the bus. This application will helpful for passengers for applying bus pass through android mobile it is time reducing process.

II. LITERATURE SURVEY

A. This paper proposed a solution for current issue in the bus pass generation is discussed. This system intended to provide a solution for drawbacks in the current system.
B. In this system, the online bus pass generation system is a cross platform, it is supported in kind of devices.
C. This project is created to provide time saving, 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.

III. EXISTING SYSTEM

In the existing bus pass system, user had to visit to the bus depot to get bus pass.in existing system bus pass registration and renewal process was offline. User had to write required details on paper. After the submitting that paper to the counter. User had to wait for some days to get bus pass. There was lot of paperwork.it was require lot of man power for offline process. all user had to stand in queue.it was very time consuming process.it take much time for bus pass process people was facing lot of problems at the time of registration and renewal process. In the existing system it was very difficult to store lot of data and retrieval of data.in this system user's data was not safe.

A. Disadvantages Of Existing System

1) Reports take time to produce and percentage of accuracy is less.
2) It consumes lot of manpower to better results.
3) It lacks of data security.
4) Retrieval of data takes lot of time.

IV. PROPOSED SYSTEM

In proposed system we have created a new concept "Smart Bus-Pass System Using Android Application" which over comes the drawbacks in the existing system. In the proposed system user register their details through online and get their unique username and password for login to apply new bus pass. User can apply for registration and renewal of bus pass through online. For this process user don't need to go to the bus depot. User can apply from home through online process. Bus pass categorized in type which is student type or senior citizen. User has to select pass duration monthly, yearly, quarterly etc. Everyone will get unique bus pass id. User has to pay online. User can also take ticket for the location he requires and online payment method is also available. For this all process user don't need to stand in queue.it is faster process than existing system.

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A. Advantages Of Propose System

1) You can find the pass related information online without going to the bus station.
2) Flexibility of transactions can be completed in time.
3) This online bus pass app will help students and passengers get bus passes online.
4) To provide huge maintenance of records.
5) The payment can be done online.

V. MODULE DESCRIPTION

There are various modules which are shown in architecture:-

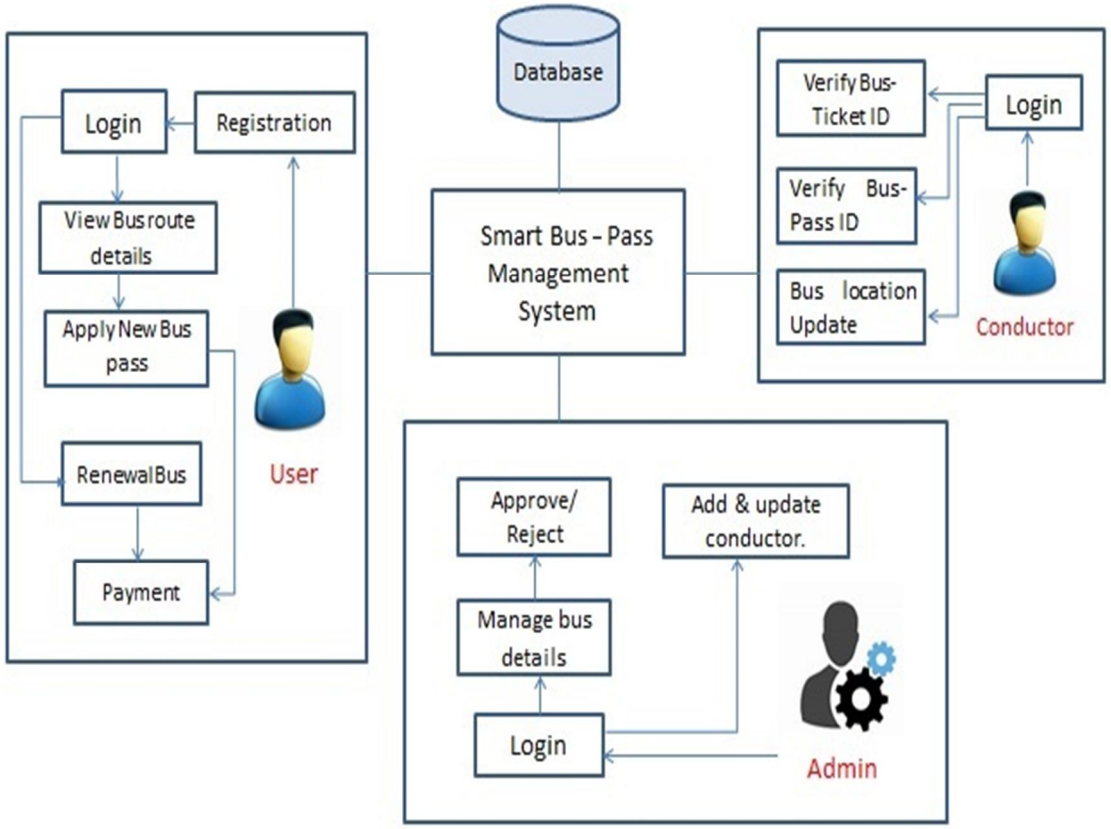


Fig 1: System Architecture

Above fig. shows the working of application. There are three types of login (User login, Admin login, Conductor login in this app.)

1) *User:* Firstly user has to do registration by filling all the required information which is needed for successful registration in registration user has to create username and password for login. After the successful registration user has to make login process by entering that username and password which is created at the time of registration process. After the successful login user will show many option like view bus route details, apply new bus pass, renewal bus pass, and add money e-wallet. User can apply for bus pass where user has to fill all information like Aadhar no, phone no. user has to select pass type like monthly, quarterly and yearly and he has to choose destination. After that he has to make online payment. When pass will expire then user will get notification about renewal pass. User has to renew bus pass. Such that user can register and renewal bus pass at home through online process using android mobile app.
2) *Admin:* Firstly admin has to login by using user id and password. Admin will approve or reject bus pass of users. After approve bus pass soft-coy of bus pass will generate. Admin can manage all bus details; admin will send bus pass detail information to the conductor section.
3) *Conductor:* Conductor will verify bus pass id and ticket and also update bus location.

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VI. RESULT

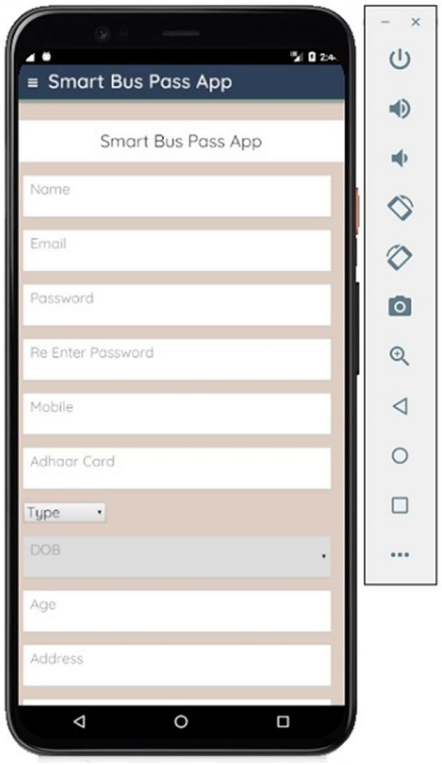


Fig 2: Registration

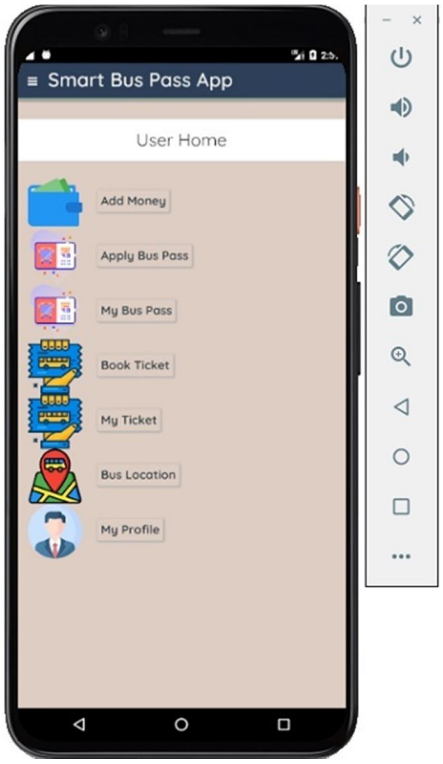


Fig 3: User UI

VII. CONCLUSION

The Smart Bus Pass System Using Android Application is a real time project concept which will prove to be very much useful and handy for the public who are facing issues with the current manual work of bus pass registration and renewal. User will get reminder about their validity or ending period by sending them notification. The proposed project might also get some extra features when it comes to location tracking, the GPS facility can be attached, for the finding bus route information.

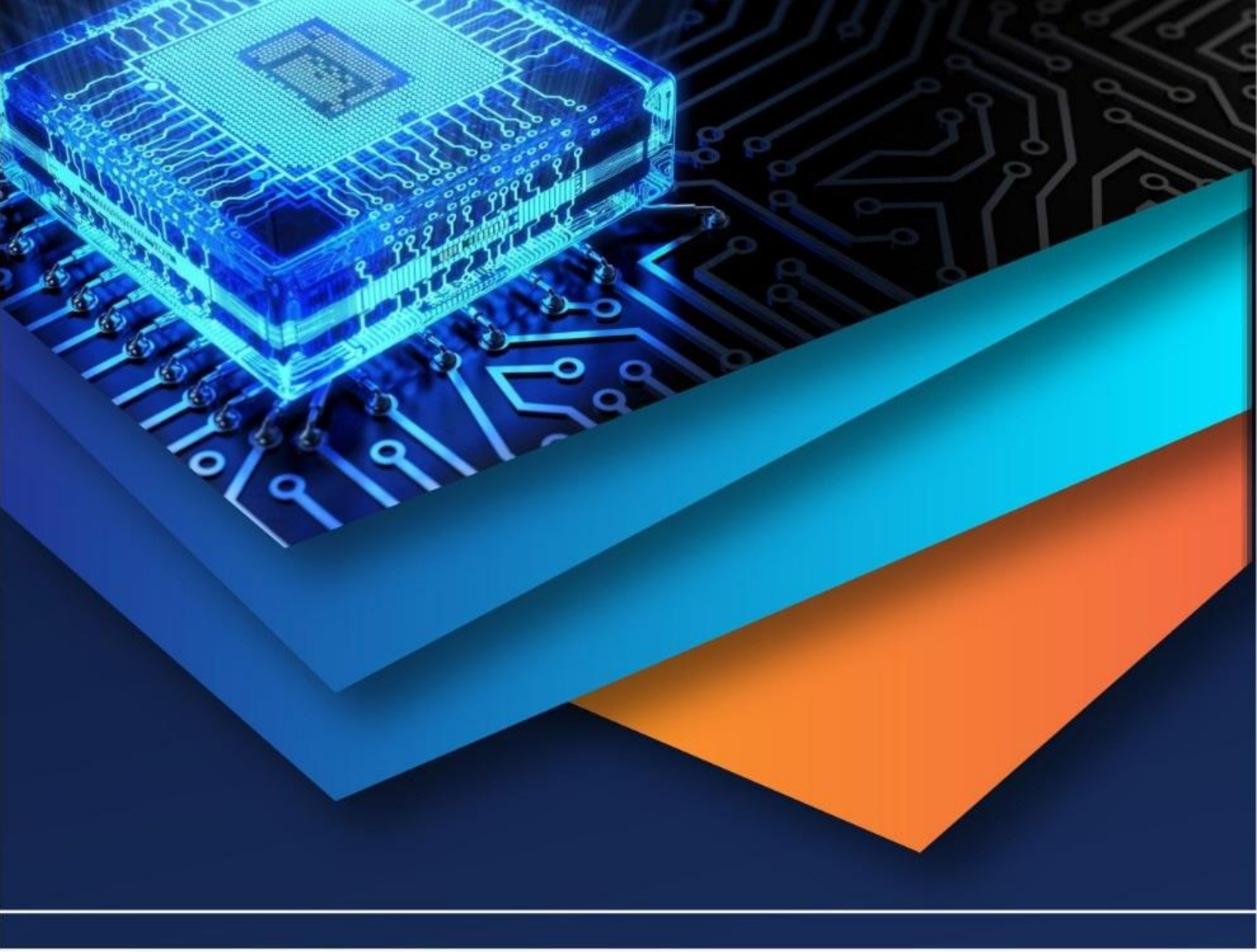
VIII. ACKNOWLEDGMENT

It gives us great pleasure in presenting the preliminary project report on 'Smart Bus-Pass System Using Android Application'. We are profoundly grateful to Prof. BORADE for his expert guidance and continuous encouragement throughout to see that this project rights its target since its commencement to its completion.

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