

E-BUS PASS MULTI AUTHORITY APPROVAL SYSTEM

M. Madhumitha

Department Of Computer Applications Nirmala College For Women, Coimbatore

R. Sri Swetha

Department Of Computer Applications Nirmala College For Women, Coimbatore

S. Beula Princy

Department Of Computer Applications Nirmala College For Women, Coimbatore

ABSTRACT

The project entitled “E-Bus Pass Multi Authority Approval System” is developed using VB.Net as Front end and MS SQLServer as back end. E- Bus Pass Multi Authority Approval System is useful for students who are facing problems with the current manual work of bus pass registration and renewal. The students need to register by submitting their details through application. The HOD will verify the student details and if they are satisfied, they will approve bus pass. The pass will be generated. The student can login with their college Student id and password and then renewal can be performed. This E-Bus Pass Multi Authority Approval System will help candidates to save their time and renewal bus pass without standing in a line for hours near counters. Initially uses need to register with the application by submitting their details through application. The candidate can login with their student name and password and renewal is performed.

Keywords: Register, Student, login, Apply, Bus Pass Student, User name , Approval .

INTRODUCTION

Bus pass is useful for students who are facing problems with the current manual work of bus pass registration and renewal. The students need to register by submitting their details. The administrator will verify the student details and if they are satisfied, they will approve bus pass. The pass will be generated. The student can login with their college Student id and password and then renewal can be performed.

This bus pass registration application will help candidates to save their time and renewal bus pass without standing in a line for hours near counters. Initially uses need to register with the application by submitting

their details. The candidate can login with their student's name and password and renewal is performed.

The student who is in need of bus pass can apply through college. They must provide the basic information necessary for bus pass registration. The admin will accept the registration and forward to the transport officer and the officer approves the application of the person. The application once approved by the officer, the student can download the bus pass. Billing will do after received a bus pass to the student. Thus, the project saves time for the student need not wait to renewal the bus pass. The project aimed at developing bus pass register and renewal system based on cloud. This project is created to provide "safe, reliable, time saving, efficient,

comfortable and affordable" services for student, although the cost for providing this service has been substantial.

LITERATURE REVIEW

With a digital approach, we can remove the drawbacks of a traditional system. The scope of having a digital pass is vast as it is going to eliminate the hassle of getting a physical pass on a daily basis, and also at the same time, it reduces manual intervention keeping the system very much safe and secure. The commuters will not have to worry about carrying such small denomination of money with themselves, rather they can easily pay through their cards or their UPIs. This digital system, though, is not only useful for the commuters, but it will also be a great help to the bus authority as they will no longer suffer from any losses caused due to misuse of passes and thereby increasing their revenue. Both, bus authorities as well as the passengers can enjoy benefits of this digital approach. This new e-pass system is not only advanced but also effective and efficient. The objective of this approach is to automate the payment as well as pass issuing procedure with more safety and security than it was before. The passengers get the independence of using any fare paying model that is allowing full self-administration. The primary key success factor of the digital pass is the interoperability and simplicity of the system from the passenger's point-of-view.

Countries like Germany is using e-ticketing for public transportation by associating with their public transport companies such as Verband Deutscher Verkehrsunternehmen (VDV) who founded the VDV core application for bringing the e-ticketing approach in their country. With such a hit, other countries have started to evaluate the VDV core application. Australia has successfully developed a pilot model for the same as well. As the time progresses, more countries will be coming forward and will become aware of the need of a digital approach in their transportation as well.

METHODOLOGY

Admin Login

Admin Logs in with unique name and password. No other can access this module. Admin will maintain the bus student registration, pass approval, reports etc

Government Login

Government Logs in with unique username and password. Only Government will give the approval for student after the admin gave approval.

Student Registration

This module is used for Student registration for participation. Once the student is registered he/she can use the same logon for all consequent. In this module contain information about Student registration.

Student Login

Authentication is the important module in this project. Once the student submit their details the information are accepted and the Student can login with their student name and password

for renewing their bus pass. Only the registered Students can do the renewal process. In this module it checks whether the authorized persons is accessing and it does not allow other Students to access.

Applying for Pass

This module is used to apply the bus pass by the student. It's an easy way to the student who needs a pass they can apply through online. Admin have authority to maintain the modules.

Bus Pass Approval

This module is used to bus pass approval. The students need to register by submitting their details through online. The administrator will verify the student details and if they are satisfied they will approve bus pass.

Renewal

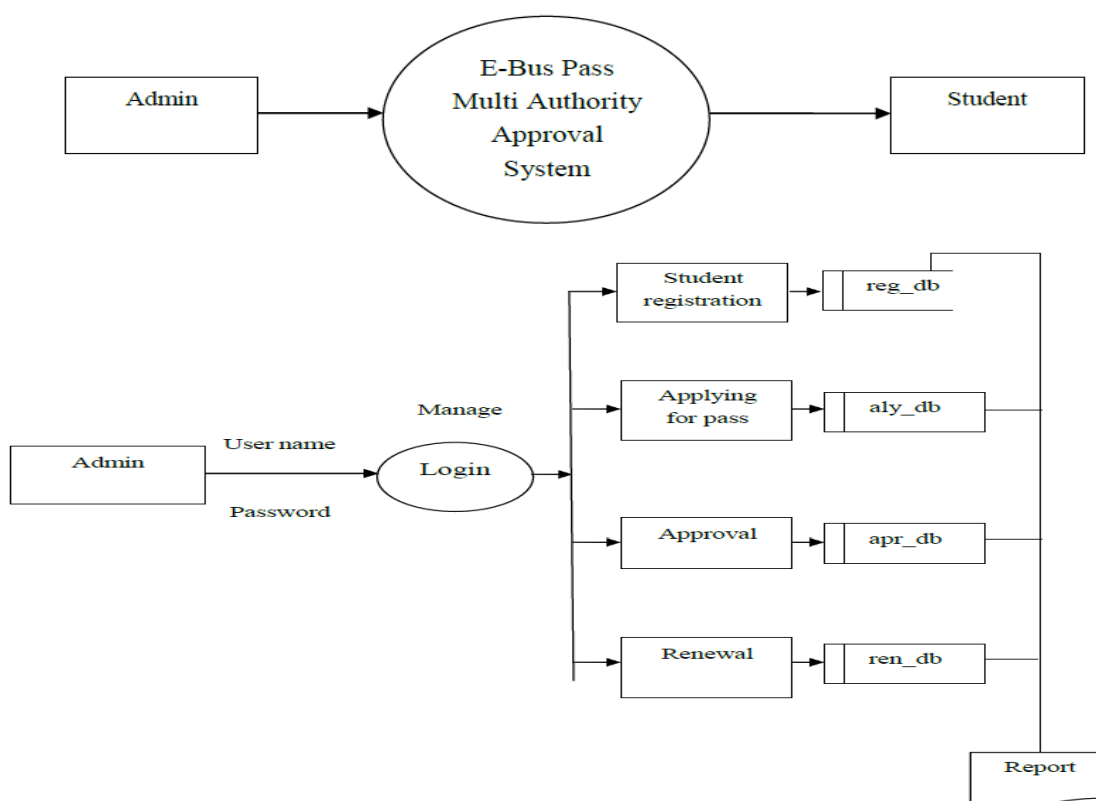
In this module, the Student enters into the renewal form for renewal of bus pass. The student has to give the month of renewal, student id and the necessary details. Once the process is completed the student bus pass will be renewed through this application.

Reports

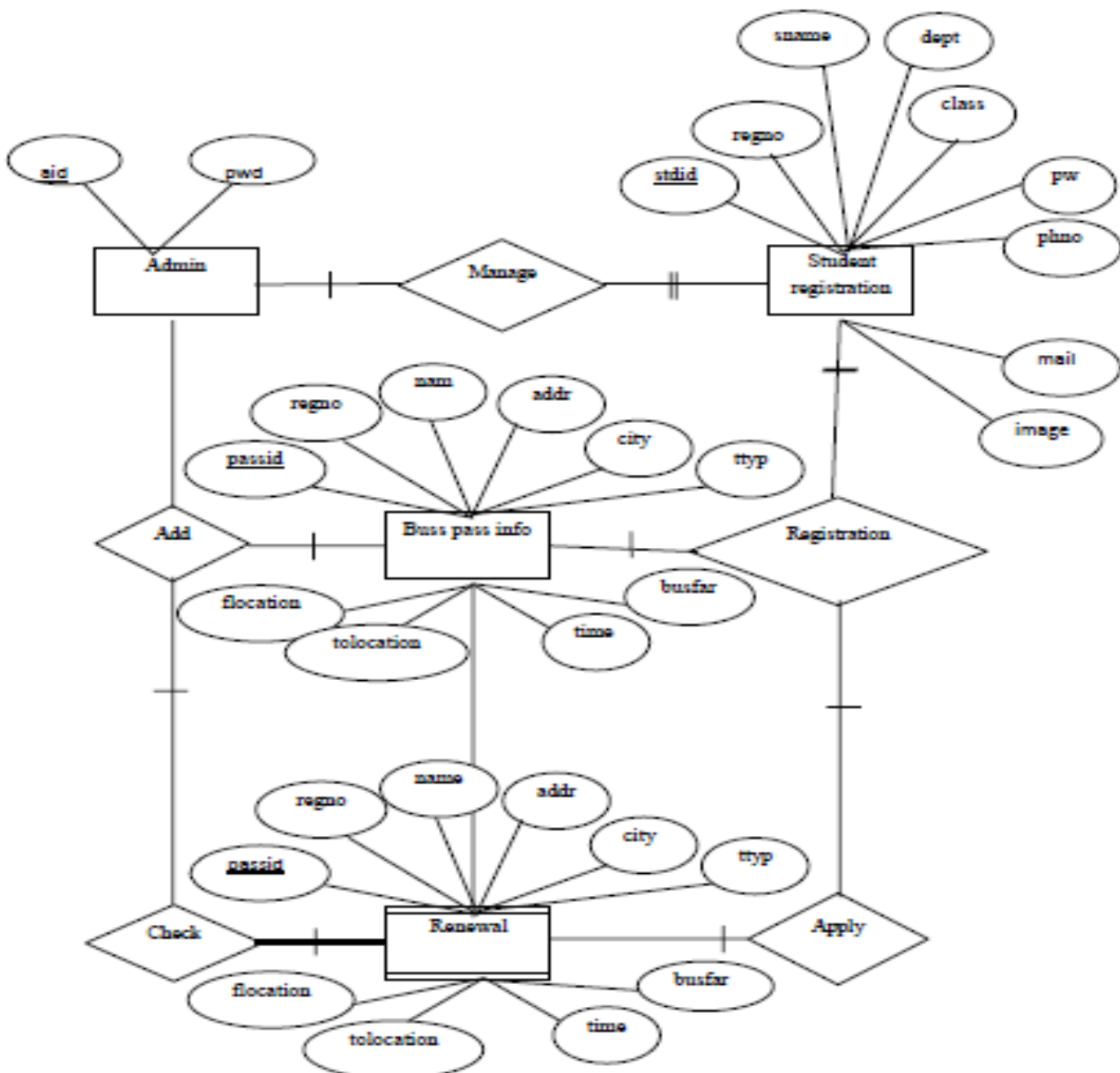
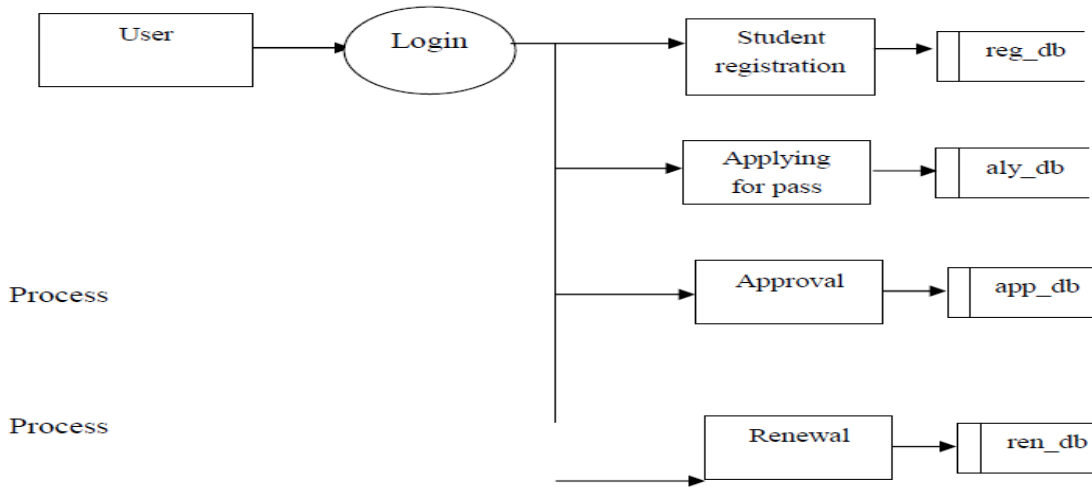
This module is the final phase in this project. Once all the transaction can get report for bus pass candidate report and application report.

DATA FLOW DIAGRAM-

Level 0



Login after registration



FUTURE ENHANCEMENT-

As a future enhancement this project is about to become a web application with complete features. According to developer it can be developed as mobile application. There are also few features which can be integrated with this system to make it more flexible. Below list shows the future points to be consider. The project has been developed and the objectives are achieved successfully. The project has been developed with front end as VB.Net and backend as SQL Server.

To provide better facility regarding security, it uses security provider software and we access any place and anywhere use that. It can have an enhancement on proper in the future according to the user's requirements.

CONCLUSION

The educational E- pass approval system is a real time project which is handy for the public who are facing challenges with the existing system which is operating manually by the man force for registration and renewal. This system helps student to request for bus passes application. So, it helps to avoid keep standing in a queue for long time to get the passes. It often cautions the people before the close of his validity time. The renewal and requesting for the bus passes can be done using this application. The new requirements can be easily added by enhancing the system without changing much of changes.

REFERENCE BOOKS

1. Elias Awath, "SYSTEM ANALYSIS AND DESIGN", Tata Mc Graw Hill Publication, Sixth Edition,2003
2. S. Ramachandran, "COMPUTER AIDED DESIGN", Air Walk Publication, Third Edition,2003
3. RichardFairley,"SOFTWARE ENGINEERING CONCEPTS", Tata Mc Graw Hill Publication, Second Edition,1997
4. Programming VB.NET: A Guide for Experienced Programmers by Gary Cornell,
5. Jonathan Morrison Learning VB.NET Through Applications by Clayton Crooks II VB .NET How to Program (2nd Edition) by Harvey M. Deitel, Paul J. Deite Tem R. Nieto.

ONLINE REFERENCES

1. www.msdn.microsoft.com.
2. www.microsoftdotnet.net
3. www.dotnet-tricks.com
4. www.sqlmag.com