

# Smart E-Bus Pass System – Step Towards Augmentation of Technology in Giet Institutions

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**Abstract:** The smart e-bus pass Registration and Renewal system will perform multi-functions like retrieving information for the cross check and allow the people to get their bus passes without standing in issue counters for hours and is used by 2057 GIET students, who are feeling tedious for getting the bus passes by means of manual work. This system helps the students by giving sufficient warnings for the validity period of the pass. The student registration or renewal can be done using a receipt Id. In the current procedure of obtaining a bus pass the students have to register for bus pass by giving a passport photo and the required documents via online. The system will verify the details and if the details are satisfactory, the system will approve bus pass. The students can even renewal also. It also lists the student having free bus and also sorts the students based on the place.

**Index Terms:** e-bus pass Registration and Renewal System, Students

## I. INTRODUCTION

Now-a-days technology has developed to a great extent, even though students are facing a lot of problems with the current manual system for getting bus passes by standing in queues for long hours. It is a time taking procedure for issuing or renewing passes. The issued passes are slips and they can be lost easily. This project solves this manual problem by making all this procedure through online. This idea would help the student in a better way. As per the previous system the user had to do each and every process manually, but this system helps user to make the registration and renewal bit faster. The user can then take print out of this bus pass directly after completing the pass registration or renewal of pass. This system helps the students by giving sufficient warnings for the validity period of the pass. In this bus pass, all the required details such as student name, pin, address, name of the college, and validity period and photo copy of the student are provided. The renewal process increases the validity period. This process mainly saves the valuable time of the students.

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## A. EXISTING SYSTEM & PROPOSED SYSTEM TO IMPLEMENT IN THE ISSUE OF BUS PASSES

In the existing system of issuing the bus passes, the students have to go to the counter and stand in the queues for longer periods for getting their passes. In this system, the registration process and renewal are the tedious tasks in turn which involves a lot of human effort and also as this system is a manual one, it doesn't maintain a separate database for the registration and renewal of the bus passes to the students and it is also a time consuming process.

The proposed system will be neglecting the drawbacks of the existing manual system. The proposed system helps the students to get their passes via online, without standing in queue lines for hours in turn by which the time will be saved to them. Students can find all the bus pass related information through online. It also provides renewal facility for students through online. It warns the students before completion of his validity period by sending notification. It also lists the students based on place, year, branch and college. It also lists the students having free bus pass based on year, branch and college.

## II. TOOLS & TECHNOLOGY USED

In the present study, the following tools are used

- **HTML**  
For building of graphical interface for the applications to advance the web pages the Hyper Text Mark-up language is used.
- **CSS**  
For the design of web pages the Cascading Style Sheets are used.
- **JAVASCRIPT**  
For handling the network centric applications, Java script is used.
- **PHP (XAMPP)**

PHP is open source server side scripting language. PHP is a object oriented programming language which gives an independent platform and speed on linux serves gives a free hand to construct huge and complex web applications.

### III. SYSTEM DESIGN

#### A. Physical schema registration

create table student(sname varchar(50), spin integer, scollege name varchar(40), s email varchar(40), susername varchar(20), spass varchar(6), primary key(spin))

NAME	PIN NO	COLLEGE NAME	EMAIL	USER NAME	PASS WORD
sunitha	514	Gec	sunithaunamburi203@gmail.com	Suniii	12345
Priyanka	518	Gec	<a href="mailto:geccse518@gmail.com">geccse518@gmail.com</a>	Priya	123456

#### FREE BUS PASS LIST AND SEARCH BY PLACE

Create table details(sname varchar(50), pin varchar(20), branch varchar(20), clg varchar(25), place varchar(30), primary key(pin)).

#### B. Dfd diagrams

The DFD is known as bubble chart. It is used to represent a system in terms of input data to the system by means of graphical formalism. It is one of the modeling tools and is used to design and model the system components.

3. The feedback can be effectively generated for the better improvement of the system.

### IV. CONCLUSIONS

1. The smart e-bus pass registration and renewal system is a real time work which is also with a user friendly interface can nullify the drawbacks of the manual system effectively.
2. All types of transactions can be made my using online methods which increases the transparency.
3. It also gives a preliminary warning to the users about the completion of the validity period/expiry date of the bus pass renewal.
4. Latest software trends may be added with reference to the effective utility of the students as on when it is required.

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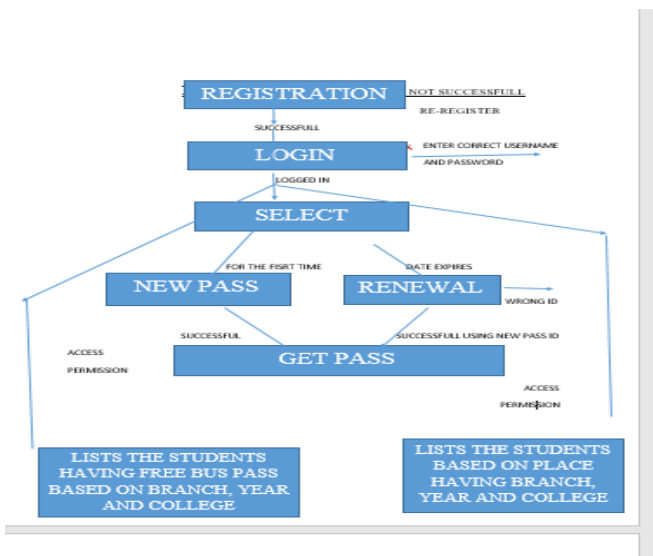


Fig.1 DFD

### IV. ADVANTAGES

1. The consumption of time is less for the proposed system rather than the existing manual systems and the students can get rid of standing in the queues for getting their passes.
2. The proposed system is a user friendly interface and it is easy to work with.