

# Government Bus Pass System

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**Abstract:** *This paper's primary goal is to present the web based application for government bus permit applications and renewals. Using this app makes it simple for those who to ride the government bus system and renew their pass within a set time and frame.*

**Keywords:** Bus Pass.

## I. INTRODUCTION

The main goal of this project is to lighten the workload for the government and the beneficiaries/passengers who are using the service. It also aims to reduce the amount of paperwork required for the renewal and registration of bus passes in the transport department, which will save time, make the process more user-friendly, and enable the beneficiaries to be paid for the services they are using in a secure and dependable manner. In order to obtain a new bus pass, the user must register using the required application format. Students using this service must also upload the necessary papers, such as proof of address and pictures, and are then prompted to complete the payment method.

## II. NOMENCLATURE

### Existing system Vs Proposed System

In the existing process or the related work the passenger or the beneficiary has to go to the respective bus depots to register as a new passenger/user and also to renew their existing bus pass. By paying the cash in to the counters, the entire process has to be carried by them manually. It also not easy and user convenient for the user to renew or to get the new bus pass. They have to go to the bus depots in the respective official timings which is allocated to them. And also in a specified amount of time span only they could be able to renew their bus pass. In the existing system there won't be assurance can be given by the government to maintain our data's in a reliable way. They need to carry all these in a documented format. Have to maintain huge amount of documents which is not that much easiest job. Further similar works based on the project has earlier been done in Telangana , which was also an application based bus pass system, however it lacked all the facilities of renewing the pass at all times. Though it was not as agile and efficient when it came to its functioning. The existing system will be easy and reliable process in making the process. Comprise fatherlier development architecture process such as user interface, process management, data base management system . It will provides the way of the system in which it should supports the user's functionality.

### Benefits of Proposed System

By introducing of smart application which are highly attractable for the passenger who are accessing it. And also reduces the tie and work for both. Reduces time and documentation work for the issuing authority. By accessing the details the user needs to provide his/her information to the government, such as uploading the documents of photo, identification proof, signature, name, mail id, phone number, address details etc. After by giving all these necessary details the user's details has been sent to the admin or depot office who is a responsible authority should verify all this will approve and the soft copy of bus pass is sent to the registered mail id of the user once the process gets over The user could also be able to save it in the format of offline in the way of showing the ticket summary to the checking office or to the conductor who are asking the user to show the bus pass, the bus pass has got officially generated. The additional feature of this smart bus pass the user can also carry it in the format by laminating it after they downloaded it from their e-mail. It they, by providing this hard copied document of the ticket. There won't be any malpractice or counter fighting will be occurred. Because of providing safe secure and reliable process adding water mark feature in the ticket. prevents from all those issues.

**III. MODEL DESCRIPTION**

There are various modules that are used. They are:

- Registration
- Login
- Pass Category
- Payment Interface
- Pass generation
- Notification alert

**Registration**

The new user should first register him self by filling in all the details along with their number.

**Login**

After the completion of the registration process the user can login using the user name and the password which they filled while registration.

**Pass Category**

Then after the login it takes the user to the pass category selection page. From there the user can select the pass he wants based on his criteria. The types of passes available are monthly pass, senior citizen pass and the student pass.

**Payment Interface**

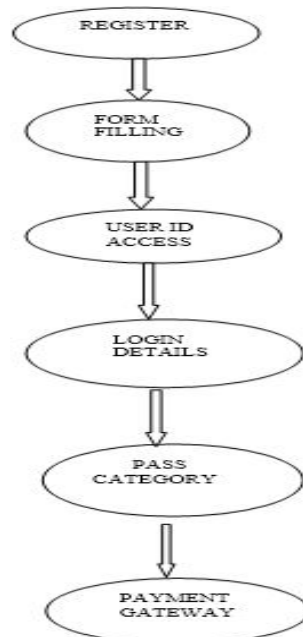
After the pass gets selects the desired details gets updated and then takes the user to the payment gate way where the user needs to fill in his account details for the payment to take place.

**Pass Generation**

After the payment gets completed the pass the user selected gets delivered.

**Notification Alert**

Gives you a pop-up notification after the pass is delivered



**Fig.1 Flowchart**

Fig.1 Gives a brief description on the various modules and the stages in which they are being used. The following are some of the processes that are bound to happen while using the application. For new users, the registration process is to be carried out first so that they can further use that details during the time of login. Further the desired category is selected for which some of the basic duration details needs to be updated. Then the payment process sets in during the time of pass generation, with a pop up notification suggesting you that the pass has been generated. The proposed system makes due notice, that all the data's about the users are well organized to the be stand efficient way possible and is handled correctly in the database. Renewal of user's bus pass is also done online with the help of the username and the pass word submitted by the user during the time of registration. When the user tries to renew the bus pass the renewal process takes place only after the payment is done via online.

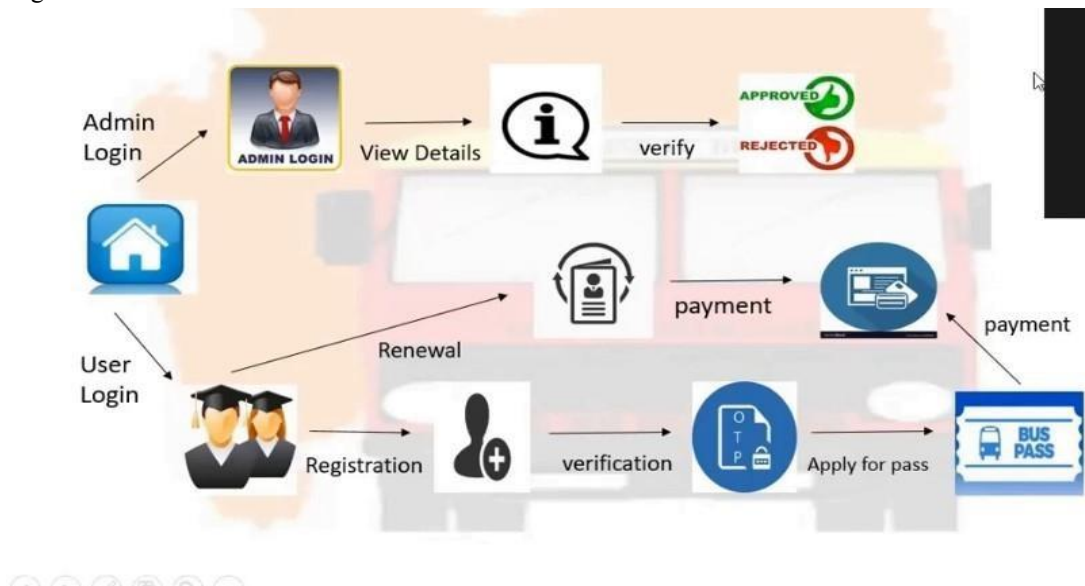
#### IV. METHODOLOGY

##### Admin Login:

- Register And Login To System
- View and Verify User details
- Approve or reject pass request
- Logout

##### User Login:

- Register and login to system
- Self Verification
- Apply for Bus pass
- Make payment
- Renew Bus pass
- Logout



**Fig.2 System Architecture**

Fig.2 Given on a home page admin login and user login first in user login user can register to the system and create the Id, password and admin provides the id and password to the user then user can login into the system. After that verification is done by user by sending OTP to user mail by entering that OTP user is verified after that admin can view details of user. User can apply for bus pass and the request is send to the admin. Admin can be the verify the request up to approved or reject. If admin reject the request user is not paid the payment if admin approved the request user is paid the payment then after 1 month completed when pass is expire user can login into thesystem renew the pass after payment paid.



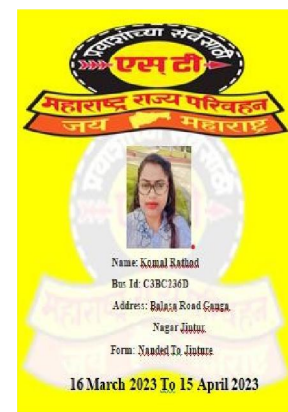
**Fig.3 Start up Page**



**Fig 4. Rigestration Page**



**Fig.4 Pass Category**



**Fig.5 Output of Month Pass**

### V. CONCLUSION

For the general public who are experiencing difficulties with the existing manual process of bus pass registration and renewal, the Smart Pass System is a real-time project that will prove to be very helpful and practical. Additionally, it constantly notifies consumers by giving them notifications regarding their validity or ending term. Additionally, the GPS facility can be connected to every MTC bus so that application users can access the bus, giving the proposed project access to additional position tracking functionalities.

### VI. ACKNOWLEDGEMENT

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