

# Study of an Effective Online Bus Pass Generation and Renewal System

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**Abstract:** This project is mainly aims to provide an effective facility of bus pass. It also uses database to store data about passenger. This system has two logins, one for user and another for admin. In this project bus pass generation as well as renewal system has been provided. It is a web application for people to get bus pass through online. It is very useful as it reduces paper work, time consuming and makes process in simple and faster way. User can renew their existing pass by extending their validity of time when pass expires. Admin can view all the details and balance of user through its login. This system was intended to develop an application to perform functions like accessing information for authentication and provide pass to particular person. So, users don't need to stand in queue for long time. This system is helpful for people to get a pass. User can get a pass from anywhere and anytime. There is no need to do manual process. The benefit of this project is no one can reuse issued pass due to photograph and unique id. The notification will generate before expiring monthly pass. This is beneficial for every passenger to get pass in time. The one time password will be generated for every user while registering first time. Aim of this system is to generate daily and monthly bus pass.

**Keywords:** Provide an effective facility of bus pass; user can get a pass from anywhere and anytime

## INTRODUCTION

We are creating this project to provide "safe, reliable, time saving, efficient, comfortable and affordable" services for people, although the cost for providing this service has been substantial. It is heavily subsidized by the government and is reportedly in the red, like most of India's state run road transport undertakings. Even though we have lot of technology development in Pune, we haven't got any official website for Bus Pass Registration and Renewal as many of our Neighbor states possess.[1] Hence we got this idea that would help our people in a better way. As per the previous system of our state people had to do each and every process manually, but this system helps people to make the work a bit faster.[2] Customer can register for the Bus Pass over the Internet, within the first 15 days of the month. Furthermore, customers no need to pay cash to buy bus pass because they can pay the amount using Credit Card.[3] Hence, there is a need of reformation of the formal system with more advantages and flexibility. Because of the drawbacks that are present in the existing system, we got this idea that would help people in a better way.[5] Customer can buy the bus pass over the Internet, 24 hours a day throughout the week, this solves the issue of bus ticket being misplaced or stolen. Hence, there is a need of reformation of the system with more advantages and flexibility. The Bus Scheduling and Booking System eliminate most of the limitations of the existing software.[5]

## RELATED WORK

Online Bus pass Generation system is already implemented in Andhra Pradesh as "Andhra Pradesh State Road Transport Corporation". The only drawback is the pass application form is available online.

It is to be downloaded, get a print, and then it is to be filled and submitted by hand. Online transaction facility is not available. Online Bus pass Generation system is helpful as it reduces the paper work, time consumption and makes the process of getting Bus pass simple and fast.

## PROPOSED SYSTEM

We are creating this project to overcome the problems of existing system. In this project user can generate online form. User can show his/her pass online also, there is no need to take print of that pass. User can do online payment with better security. They can use credit card or debit card for transaction.

Steps involved in maintaining the user /client information in the database:

- Step 1. Login
- Step 2. Web Application for Forms Authentication.
- Step 3. Develop functions to generate Hash Value.
- Step 4. User account database.
- Step 5. Store account details in database.

## MODULE DESCRIPTION

There are several modules:-

- 1) Registration module
- 2) Login and change password.
- 3) Apply.
- 4) Check application and Issue pass.
- 5) Online Payment.
- 6) Pass generation.
- 7) Notification (message alert).

We are referring screenshots of Karnataka State to implement our system.

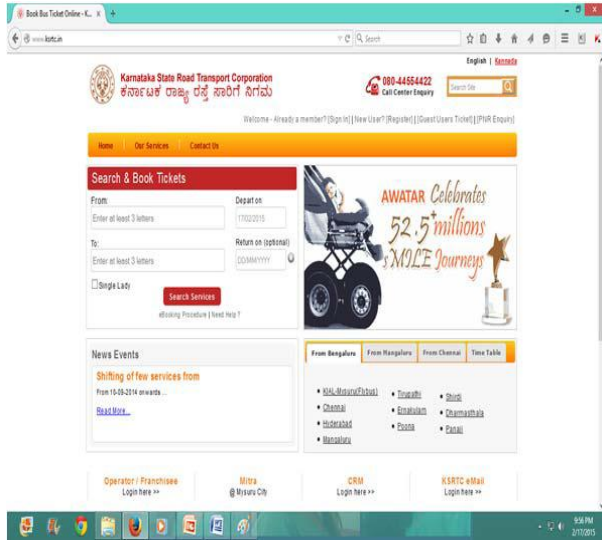


Fig1. Home Page

In Fig1, we are viewing the home page of Karnataka State as a reference of our system. In this applications payment can be done through internet. We are implementing this feature in our system.

In Fig.3, after registration, the user can login to system by using username and password which is created in registration form. If the password is incorrect then it will give message about that.



Fig4. Change Password

In Fig.4, if user wants to change password, they need to provide current and new password to conform his/her password. Changing password option is also provided. The password will in encrypted format.

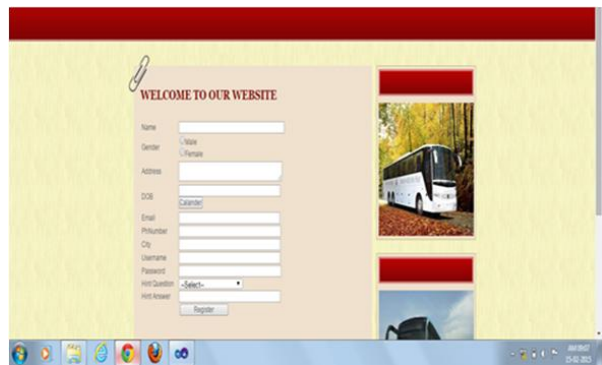


Fig2. Registration Page

The user needs to register by providing all information of given fields which are shown in Fig. 2  
User has to create his/her password. In this registration, User has to create password and user name for further process.



Fig5. Apply Page

In Fig.5, After Login, user has to apply for the form by providing necessary details to get the pass. In this user has to write all the information like date, place, Id proof.

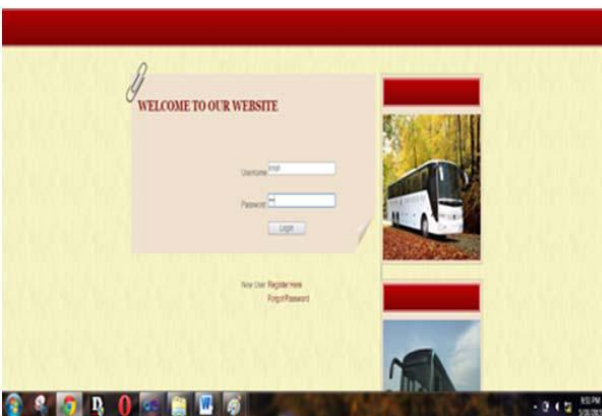


Fig3. Login Page

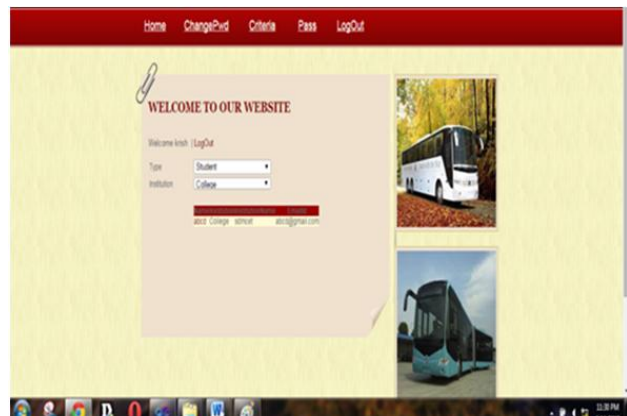


Fig6. Check Application and issue pass

In Fig.6, Admin can check received pass application and verify then issue the pass. Then admin can do further process.

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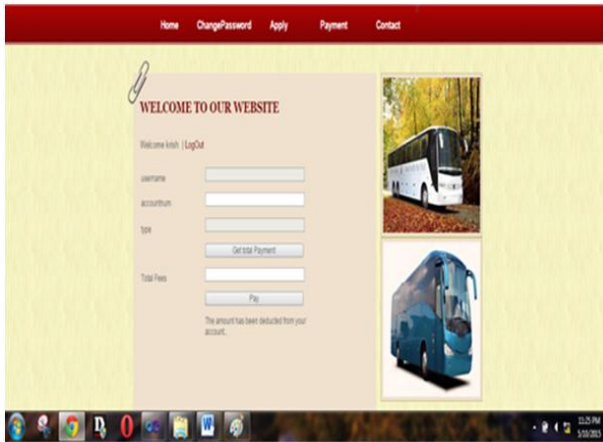


Fig.7 Online Payment

In Fig.7, Online payment is process in this, the fixed amount will be deducted from users accounts when user click submit button.



Fig.8 Generated pdf

In Fig.8, The pass will be generated in the form of pdf which consist of logo of depot and the photo of applicant. In pass, the information is display which consists of name of applicant, source and destinations, date of pass issue and expiry of pass. Renewal of pass is also made.

CONCLUSION

This is very useful project for public who are facing problem with manual work of bus pass. It is a real time project for registration and renewal of bus pass. It also help people by providing or sending a message or mail before completion of his or her bus-pass validity. The registration and renewal can be done using online payment. In this project the new requirement can be easily added or changed by the Admin. Following changes can be updated by the admin First is admin can view new route information as well as fare can be calculated i.e. payment system can be improved or updated.