# GLA UNIVERSITY, MATHURA

## UTTAR PRADESH

**CLOUD BASED BUS PASS SYSTEM**

SAKSHAM JOHRI, AAYUSHI RAI, PRANJUL SINGHAL

GUIDED BY: Mr. VIVEK SHARMA

Student, Department Of Computer Engineering and application

[saksham.johri\_ccv17@gla.ac.in](mailto:saksham.johri_ccv17@gla.ac.in), [ayushi.rai\_ccv17@gla.ac.in](mailto:ayushi.rai_ccv17@gla.ac.in),

pranjul.singhal\_ccv17@gla.ac.in

**Abstract:**The rapidly aging population causes long waiting times for taking bus pass. Diagnosing record of real-time data of each who are all using bus passes, Bus pass automation would be beneficial for government to implement proper and better rates for passes and also it would be useful for people who forget to renew their bus passes. Also taking tickets in an MTC bus is a tedious process now-a-days. Giving exact change for tickets to a large crowd is also a tedious process for conductors in the buses. In this paper, we propose a facility to take bus tickets and bus passes using android mobile application. This system provides a facility for taking tickets on the go, by just scanning the QR code user can book a ticket and pay online. This system also provides a facility to remind when the bus pass is about to expire. The app is also used to take print out of the pass, so that it can be shown to the conductors who are unfamiliar with android phones. The system is also provided with digital wallet where the user can load money as a whole and use it in each buses the user travels.

**Keywords:**Bas Pass Generation, Renewal, Online transaction.

# Introduction

We are creating this project to provide a safe reliable time saving and affordable services for people although the cost for providing the service has been substantial. Because of the drawback that are present in the existing system and the user had to do all the work manually we got this idea that would help people in better way and this system will help people to do their work bit faster. In this system we have to do all the process online such as filling the form and other details such as candidate name, date of birth, Email-id, validity period, amount paid etc. After filling the form all the details will be verified by the admin after the verification if the pass is generated user can take the print through the Email-id. Furthermore user need to do all the transaction Online. Hence, there is a need of reformation of the system with more advantage and flexibility. The bus scheduling and booking system eliminate most of the limitation of the existing.

# Related Work

Online bus pass generation 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.

This system is developed in Tamil Nadu State Transport corporation the facility the bus pass application is not available we will get the ticket reservation facility of the buses which were develop in Maharashtra state transport corporation.

This system is developing in Karnataka state transport corporation in this pass application forms are available through online. The process has to be followed manually hence time consumption is more [3].

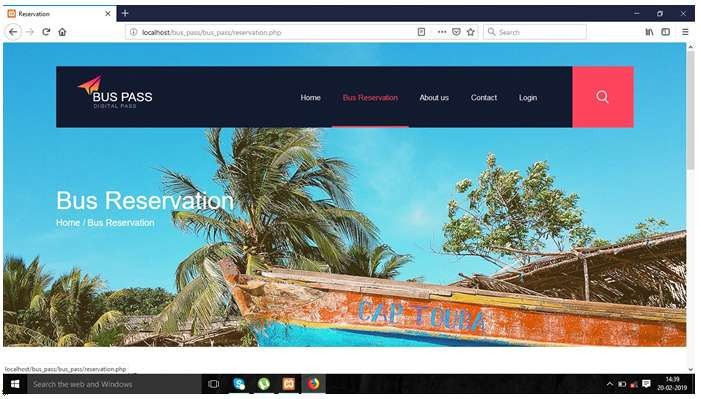
We have compared the existing system of the different state as our system will consist several advantages over the present system. In our system we can do all the things online such as Registration, filling the form, other details etc. after the verification if the admin is satisfied with your document proof and other details they will approve bus pass. If the user will get mail he/she can take the print of bus pass through its email-id. User can even renew the pass using credit card or other transfer method.

# Proposed System

The proposed system is intended to overcome the major drawbacks of the existing manual system.

### Online Bus Pass System: A Survey

This system is easy to design and implement. It requires very low system resources .our system consist of various advantages over the present manual system. Our system consists of websites forms as well as admin modules. Website forms will be for the particular user **as well as software module will be for the admin.**



*Our system consist of following features Website Module* ***Website Forms***

* *General Registration Form*
* *Student Login Form*
* *Student Personal Details Form*
* *Employee Login Form*
* *Employee Personal Details Form*
* *Bank Details*
* *Reservation Bus Form*

#### Admin Modules

* *Student Personal Details Verification*
* *Employee Personal Details verification*
* *Reservation Details*
* *Confirm Booking*
* *Conductor Details*
* *Driver Details*
* *Bus in time and out time Details*

#### Website Form

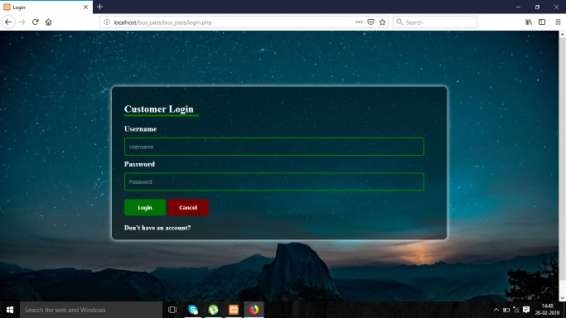
1. ***General Registration Form***

*In this modulestudent andemployee must register for getting their loginid and filling personal details*

### Online Bus Pass System: A Survey

#### Student login form

*In this student must input their username and password for accessing the websites.*



#### Student Personal Details Form

*In this module student can fill their personal details like Name, Address, Phone No, Adhar Card No, School or College Name, From City, To City etc.*

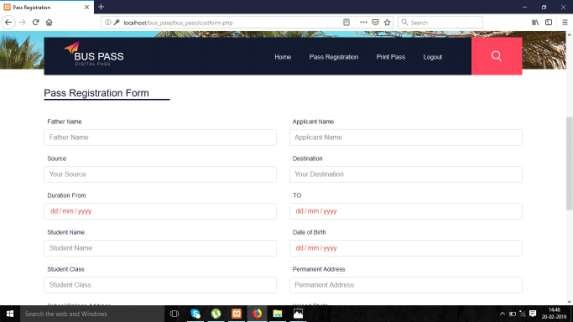
#### Employee Login Form

*In this module Employee must input their username and password for accessing the next section.*

#### Employee Personal Details Form

**IOSR Journal of Engineering (IOSRJEN)** [**www.iosrjen.org**](http://www.iosrjen.org/)

ISSN (e): 2250-3021, ISSN (p): 2278-8719

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*In this module student can fill their personal details like Name, Address, Phone No, Adhar Card No, Company Name, company Address, From City, To City etc.*

#### Bank Details Form

*In this module student and employee must enter their bank account details because all fees deducted from onlinetransaction.*

#### Bus Reservation Form

*In this module people can book the bus for any purpose like weddings, Tour, long drive party etc.*

***Admin Modules***

1. ***Student Personal Details Verification***

*In this module depot manager can verify the details and document submitted by student and verify it this process will take the 5 to 10 minutes.*

#### Employee Personal Details Verification

*In this module depot manager can verify the details and document submitted by Employee and verify it this process will take the 5 to 10 minutes.*

#### Reservation Details

*In this module depot manager can see the booking details of bus booked by the peoples and manager can provide the bus facility for their purpose*

#### Confirm Booking

*In this module depot manager can book the bus and provide bus no for the identification of the bus.*

#### Conductor Details

*In this module manager can manipulate the conductor details and take the attendance of the conductor if it is present or not on their duty.*

#### Driver Details

*In this module manager can manipulate the driver details and take the attendance of the driver if it is present or not on their duty.*

#### Bus in time and out time Details

*In this module manager can manipulate the bus details and take the in time and out time of the bus*

# Conclusion

Bus pass generation project which is useful for the students who are facing problems with the current manual work of bus pass registration and renewal. It also increases the validity period, frequently warns to the student before completion of validity period by website .his/her renewal or registration can be done using a

### Online Bus Pass System: A Survey

voucher or even by a credit card. This online bus pass registration application will help students save their time and renewal bus passes without standing in a line for hours near counters. Initially students need to register with the application by submitting details of **photos, address proof**, **adhar card, and candidate name, date of birth, bank details** and required details and submit through online. They will verify yours detail and if they are satisfied they will approve bus pass. You can even renewal using credit card or other online transfer methods.

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