

# Bus Pass Verification- Using QR Code

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# Abstract

In today's world, everyone is in hurry; late for jobs, school, college and such. Some also tend to forget important things which are much needed and are often carried with them, such as bus passes. The soft copy of the pass will not be verified. The commoner passes and such has to be applied on the major bus centrals such as CMBT. This project proposes a website, in which a QR code is generated for every bus pass and helps the passengers to apply for any bus pass online.



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# Introduction

In the present scenario, everyone in the world is in a hustle; behind time for their own stint. Amidst the hurry, people also tend to forget important things which are much needed and are often carried with them. One such thing is bus passes. The commoner passes and such has to be applied on the major bus centrals such as CMBT. This project proposes a website, in which a QR code is generated for every bus pass and helps the passengers to apply for any bus pass online.



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# Literature survey

Papers	Year of publication	Authors	Key Takeaways
Smart Bus Pass System using QR Code	2016	Amruta Aher, Vikas Gupta, Prajakta Jadhav, Prof. Shulbha Ghadling	Proposes that a notification is to be sent to the passenger when the pass is about to expire.
Online Bus Management System	2017	Piyush Khadse, Shubham Kadam, Chaitanya Mamidwar, Krushna Mantri	Discusses the problems faced by public on renewing the bus pass and its online solutions.
Smart Bus Ticket Using QR Code System	2018	Chaudri Sayali S., Nikumbh Yogeshwari P., Bhosale Komal R, Prof. G. M. Poddar	A notification is generated in this system to indicate the usage of pass.



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# Literature survey (Contd.)

Papers	Year of publication	Authors	Key Takeaways
Online Ticket Booking and Automatic Bus Pass Generation using QR Code	2018	Aakansha Gupta, Bharti Samrit, Prof. Nazish Khan	Proposes that a notification is to be sent to the passenger when the pass is about to expire.
Online Bus Pass Generation using QR Code	2019	Prof. Ruma panda, Sonia R, Raval D, Swetha C, Yashaswini K's	Includes a payment gateway for the payment of the pass.
Efficient Bus Pass Generation and Authentication using QR Code	2020	N. Krishnammal, Ramya C, Shiva Ganesh K, Shrenidhi.R	Proposes a web application which involves an additional entity called 'School Admin', who reduces the work of admin.



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# Existing System

- The current system of the Government's Bus transport website provides information on when and where to get the bus pass and at which bus stations.
- It does not provide a solution to get the same online.
- The website also provides just information on bus timings and so, but not an exact or even a distinct solution on-stream.



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# Proposed System

- In the proposed web application, a QR code is introduced, instead of a pass which is printed on a card.
- The public can have their passes as a hard copy by applying at the bus stations.
- But the passes which are applied online are generated as a soft copy, with a QR code.
- With this QR code, the ticket checker can scan the code with his webcam / can use a scanner app to obtain the details of the pass.



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# System Requirements

## Hardware

1

Processor - i3

2

Hard Disk – 5GB

3

Memory – 1GB RAM

## Software

4

Windows 7 or above

5

SQL Server

6

Visual Studio 2019



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# System Architecture

- The system has two web applications: the Client-Side and the Admin-side.
- The details which are necessary for Bus pass/QR Code generation are entered client-side and are stored in the database.
- While the admin selects generate pass/QR Code, the database is scanned and the fitting data is fetched.



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1

# Module Description

Admin-Side Modules



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# Admin-Side Modules

## Pass Requests

1

Admin can view the pending pass requests which are submitted on the client-side.

2

## QR Code Requests

Admin can view the details submitted by the client for QR Code generation.

## Generate Online Pass

3

Admin can generate the QR Code requests which are submitted on the client-side.

4

## Generate QR Code

Admin can generate the pending pass requests submitted by the client for QR Code generation.



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2

# Module Description

Client-Side Modules



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# Client-Side Modules

1

## Pass Application

The client enters valid details in the pass application form, which will be saved to the database.

2

## QR Code Application

The client enters valid details in the QR Code application form, which will be saved to the database.



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# Screenshots



Generation of Bus Pass with QR Code



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# Screenshots



Generation of QR Code  
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# Conclusion

The Bus Pass, which is applied online tends to be issued much faster than the pass applied in Bus Centrals. The project is much beneficial, as it is a time-saving, resource-saving, compared to the methods which are used to apply for the pass before. The project also benefits the government, by providing an onstream solution for pass renovation and application. Amongst many other daily routines which are not yet converted online, this project assists the government to look from a different perspective: one in which a simple yet major routine is made onstream.



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# Future Enhancement



This project in future can be enhanced by adding the following features:

- User Interface can be improved.
- Adding notification as to when to renew the pass.
- Live bus tracking.
- User & Admin profile can be included.



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# Thank you!



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