Innovative Management System for Bus Pass

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Abstract: *this project mainly aims to provide an effective facility for bus passes through mobile Applications. It additionally utilizes a database to store data about the passenger. This system has logins, one for the user side and another for the admin side. In this project, bus pass generation has been provided. It is a website and is one of the best frameworks used to develop websites nowadays. Provide most custom methods and components to interact with the website. It is a website for people to get a bus pass online which is very useful as it reduces paperwork, is time-consuming, and makes the process simple and faster way. Utilizer can instauration their subsisting pass by elongating their validity of time when the pass expires. Admin can view all the details and balance of the utilizer through it's authenticate. This system was intended to develop a website to perform functions like accessing information for authentication and providing a pass to a particular person. So, users don't need to stand in a queue for a long time. This system is auxiliary for people to get a pass. Users can get a pass from anywhere and anytime. There is no desideratum to do a manual process. The benefit of this project is no one can reuse an issued pass due to a photograph and unique id. The notification will engender afore expiring monthly pass. This is benign for every passenger to get a pass in time. This system aims to generate daily and monthly bus passes.*

I.INTRODUCTION

We have opted for the IONIC framework to develop our project, to deliver secure, dependable, time-efficient solution, comfortable and affordable" services for people, although the cost of providing this service has been substantial. The IONIC framework is one of the most popular and important technologies now a day. It is heavily subsidized by the regime and is reportedly in the red, like most of India's state-run road convey undertakings. Therefore, we came up with a concept that can have a positive impact on our community. As per the previous system before the implementation of this system, individuals in our state were required to perform all tasks manually, however, this system has provided a way to streamline processes and simplify tasks for the people. Work a bit faster. Customers can register for the Bus Pass over the Internet, within a few minutes. Furthermore, customers do not need to pay cash to buy a bus pass because they can pay the amount online. Hence, there is a need for a reformation of the formal system with more advantages and flexibility. We have identified certain limitations in the current system, and we have come up with an innovative idea to enhance the user experience. With our new system, customers can purchase bus passes online at any time of the day, seven days a week, providing a solution to the issue at hand. of bus tickets being misplaced or stolen. Thus, it is necessary to implement a system reform with additional improvements advantages, and flexibility. The Bus Scheduling and Booking System eliminates most of the limitations of the existing software.[4]

A. Literature Survey :

This project provides an efficacious solution for managing bus pass information using a database. This system provides a website for people to get their Bus passes and generation of passes online. This system provides a security option for the user. The conductor of a bus would be able to verify the pass with a recommended device. After the generation of the pass user will be notified by a message on their registered mobile. Here, the bus card works like a user's digital information. An online bus pass management system is a website that works within a centralized network.[2]

1) Normal system :

In today's technological and rapid Country where everyone is in faster to reach their destination. In this case, they don't want any type of waiting for anything. So, they have no time for collecting bus pass tickets every day. The real-time location of the bus has to know for those people who are travel by public transport. Also, they have to know how much time is taken by bus to reach their bus stop. This website is used by people and it helps people for making better travel decisions.[3]

2) Existing system :

In the typical process of public transportation, the responsibility of collecting the fare and issuing tickets lies with the bus conductor. Passengers are required to pay the fare and obtain a ticket for each ride. Initially, paper tickets may be difficult to understand due to complicated printing or unclear signage. Additionally, using portable machines can be an inconvenience. This system has several drawbacks and often leads to confusion and frustration among passengers. However, modern-day conductors are trained to utilize portable ticketing technology [1]

3) Proposed system :

      The reason for the proposed lead in the online application is the request to renew the pass on the command bus. Bus pass, in which the Government will want to take the bus to renew the bus goes to a specific period that is not easily using this application. Most foreigners have the appointed day to the expiration of the bus users all forgive them. Thus into the cars, at least when it came up. This system provides the facility to go into such marks by scanning the QR code, the user can book a ticket and pay online. This system provides an effective way to renovate arrived.

II.SCOPE OF THE PROJECT

      In this current situation, an online bus pass management system has improved the operations of various sectors of a nation's economy deploying this system. Online Bus pass Management System is a web-based system that ensures that the company would be able to transform processes are carried out in an easy way, error-free, and easy-to-use operations in the organization especially in the area of transportation, also it would be able to generate the report for the management decision purpose.

Scope:

a. It is efficient at any time and place and it does not consume time and reduces paperwork.
b. Moreover storing and retrieving information is quick and easy It reduces time.

III. ACKNOWLEDGMENTS

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References

[1] https://www.ijraset.com/research-paper/bus-pass-system
[2] https://ijarsct.co.in/Paper4770.pdf
[3] https://codeshoppy.com/shop/product/bus-pass-system/
[4] https://sankyoutuber.blogspot.com/2023/03/introduction-of-bus-pass-management.html