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QR Based (E-Ticket) Booking System

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ABSTRACT:

The aim of the project is to book tickets online. The Online Ticketing System is an Internet application that is accessible across the network and can be accessed by anyone with a network connection. This app will book tickets. This online ticket booking system provides an interface where every internet user can access it. The user is required to log into the system and needs a credit card to reserve tickets. Tickets can be checked at the entrance by scanning the QR code. But all this excitement fades away after an hour of standing in long queues to book tickets. Our app provides complete information about the current crowd at a given location as per the forecast. Ticket reservations are made by credit card and can be canceled if necessary. Our online ticketing system is one of the best opportunities for those who cannot afford enough time to book tickets in long queues. People can book tickets online at any time of the day or night. Our ticketing system also provides the option to cancel tickets that have been booked earlier.

I. Introduction

Our "Electronic Ticketing System - Crowd Control System" project is an online ticketing system where tickets will be issued in the form of QR codes. We made two requests, one to the customer and the second to the manager. In the customer application, the customer will reserve the ticket and get the QR code inside the ticket, and our application will display the information of the audience in real time, the offer information to control the crowd. Customers get more benefits from any personal information contained in the Qr code, so customers get security and freedom by stopping at the ticket office and buying tickets. From the administrator's side of the application, the administrator will read the QR code of the application with his mobile phone, so that the customer and the administrator will be able to benefit from this, because for a while, people will spend more time in the crowd. same ticket twice, so this will stop because of the Qr code

II. Problem Formulation

According to the information on the issue, the problem we see is that many people visit different places every day and after waiting in long queues, in the crowd for hours, many people use the same ticket many times because the ticket inspector is negative. All tickets can be carefully checked. The question is created in such a way that customers can register on the terminal via the Internet through our application. The ticket will be issued in the form of a QR code that inspectors can scan with their mobile phones at the entrance. This will reduce multiple uses of the same ticket and allow customers to spend more time enjoying their trip.

A. Recommendation System

The app recommends different destinations to customers based on previous trips. The main purpose of our application is to provide customers with a better interface and experience so that they can easily go wherever they want. The app also provides real-
time information on specific visitor locations to manage crowds and recommend the best places to go.

B. App

The project is to make an app. Our main goal is to make an application, because the application is easy to use, instead of the website, anyone can use the application, because it is always available on mobile, but according to our project, it is difficult for the website because the user has to open the website many times, so it can be easily opened by clicking on the application icon.

III. Literature Review

The success factors found in implementing the online ticketing system include supporting ticketing activities, data integration of all the things, the display supports users, the available features are quite complete, can provide information to customers clearly and accurately, greatly impacting individual

performance. This research will encourage the government to include the e-ticketing system in all the heritage places. Using digital technology to increase its productivity, that is, implementing e-tickets instead of paper-based tickets, can make a real difference in the delivery of construction materials.

IV. Methodology

NO	METHOD	FUNCTIONS	BENEFITS	TECHNOLOGY
1	QR GENERATOR	User get a unique QR by scanning they get access to ticket of a selected place	Save time and efforts	Uses zing in Android and MT Barcode scanner in IOS
2	CURRENT VISITORS COUNT	By this a user can decide is it comfortable to go not	Save from buffet and gives full freedom	Statistics fire and base data base.
3	USER VERIFICATION	This is the function by using which user can sign and get access to various methods it has it and password .	Gives security and privacy.	Firebase authentication
4	DATA FORECASTING	By this managing the crowd becomes easy and according to that management is done efficient	A good experience to the visitors due to proper management.	Moving average.
5	USER INTERFACE	It is an interface or UI to interact with the software easily.	Anyone who knows mobile features can use it easily.	Flutter and dart
6	USER DATA STORAGE	It gives facility to store your history of payments and other things.	User has proof of payment and bookings of ticket .	Firebase database

Interface of the client-side app
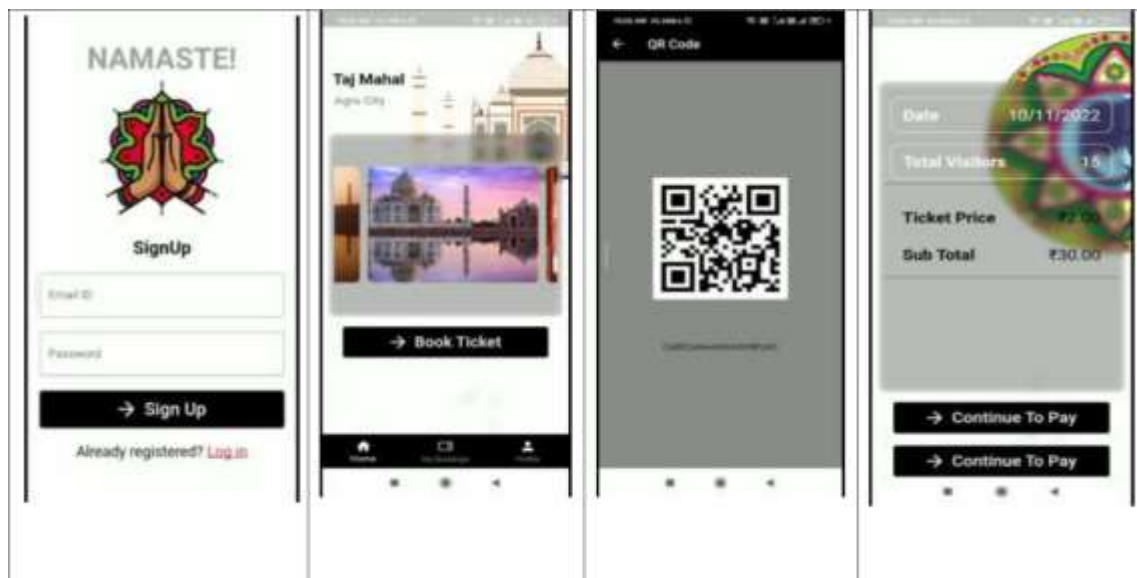
Interface of the Admin-Side app
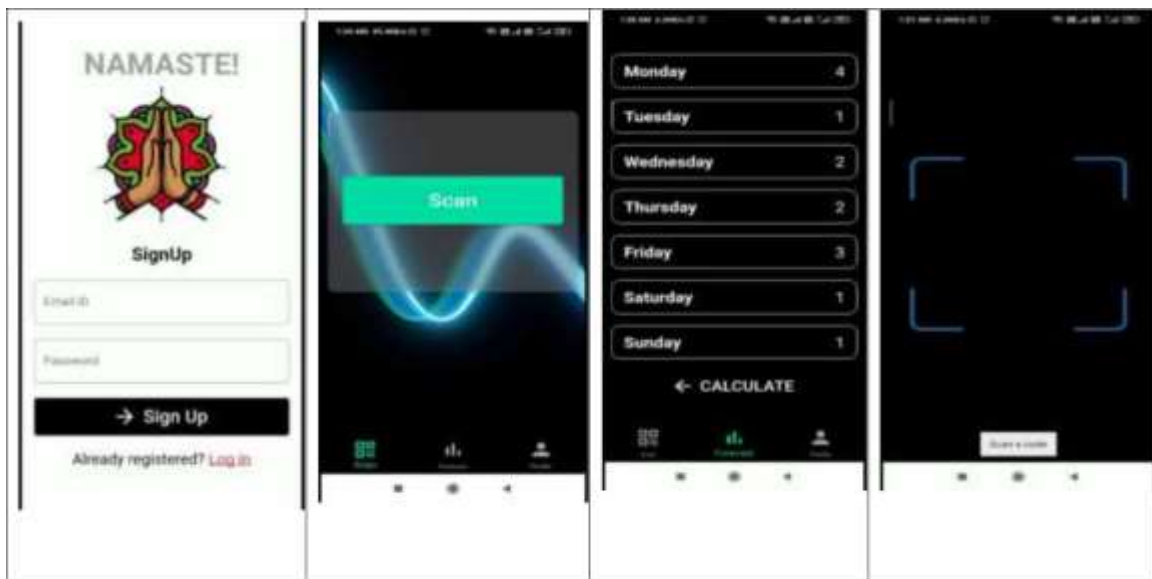
V. Result Discussion

The QR code electronic ticket system is mainly used for ticket purchase. The application will generate a QR code for the conductor or authorized personnel to scan the ticket based on the information entered by the user. While typing is only possible as a link, Firebase actions can be multitasking. The source code for Firebase is in the public domain.

VI. Conclusion

Buy RFID tickets, GPS, WIFI, AZTEC codes are used, but these devices have some disadvantages. Electronic ticket based on QR code adopts the concept of QR code. QR codes are two-

dimensional quick response codes that have become popular in the United States. They are easy to use and versatile. The main advantage of this code is that it stores a lot of information that is easy to scan and save on your mobile.

The system allows people to register for passport. It also allows users to refresh their content by updating it. The system uses mobile android application to buy bus tickets. Passengers and drivers will have an Android app. Passengers need to enter basic information such as name, address, bank details, date and location.

They are stored in a database and generated as QR codes. Scan the QR code ticket checker from Android app so the coupon will be checked by it.

Acknowledgment

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