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QUICK TM
SAVE TIME SMARTLY

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Abstract- **Although technology is advancing but its results are seem only in few fields. For example, the present booking system, there have been various changes bought in this area since many years till today. But the primary problems faced haven't changed much. This paper represents the implementation of the proposed idea that tries to figure out various loopholes of the present booking system, also emphasizes to focus on the cashless transaction and gives a measure to find a substitute or an altogether different approach to solve it. Thus this paper discusses the various issues and also gives an idea of the proposed system, its working details and its benefits in other applications too.**

Keywords-GPS, CLOUD, ticket, validate, QR code, cashless.

I. INTRODUCTION

This paper deals with problems in the ticketing system. Although significant changes have been bought yet none could resolve all the problems efficiently and provide better services to its users. Thus, our paper discusses various problems faced considering all the favorable cases and ways to solve them. In addition to giving more prominent and user-friendly options. This is applicable to all the places that includes ticketing system.

II. LITERATURE REVIEW

This section gives an overview of existing technologies, their methodologies. We present a comparative study on different approaches.

Table I- Literature Survey

	Paper Title	Author	Description
1	Android Application for Ticket Booking and Ticket Checking in Suburban Railways	Subarnarekha Ghoshal, Shalini Chaturvedi, Akshay Taywade and N.Jaisankar	Uses Cloud and QR Code for ticket generation
2	2013 Android Railway Ticketing with GPS as Ticket Checker	Neha Sandikar, Rane Dipti, Sachin Pandey	Uses GPS for ticket validating
3	Efficient Travel Ticketig System using QR Code on Android	Shrikant Kokate, Sunaina Badgelwar, MadhuriDahake, Deepali More, SamruddhiPatankar	Generating QR Code efficiently to save time and efforts.
4	Wi-Fi Hotspot Based M-Ticketing System for Railway Unreserved Ticketing System	OmkarChavan, VihangManehekar, ChetanChavan, J.W. Bakal	This can be used as future scope when the stations are wifi activated.
5	Android Ticketing with GPS and Ticket Checker and Using QR Code Scanner	AnkitaBhandekar, MadhuriChougule, PrajaktaGade, M.J. Arote	It includes automatic fine deduction facility if the user tries to extend journey
6	Cross platform Appliction for Smartphones Unreserved Tickert Generator for Mumbai Local Trains	Sangeeta Oswal, Pabla Singh, Mitali Chile, Priyanka Tripathi	It provides how users can create cross-platform application

A. Present Proposed System

Here we discuss in brief on transportation system concerning to railway suburban ticketing.

a) *Automatic Ticket Vending Machines (ATVMs)* : Here the user needs to buy a smart card and recharge it with Rs.50, Rs.100 and so on. The user then needs to go to the ATVM and place his card, and enter his destination and other details such as no. of passengers, class of travel, type of journey and then print this ticket. Thus there is automatic deduction of the journey fare and the balance also gets known to the passenger. But there is a chance of this may fall and has not been an effective way to provide better ticketing option, or hasn't it considerably reduced the huge queues at the station. Drawbacks of this are, what if the user forgets to carry his own smartcard?

There is no option other than asking co-passenger for his smartcard or else again standing in the queue. Sometimes its noted scenario, that these ATVMs suffer huge maintenance insufficiency, sometimes the touch pad of this machines don't work proper and cause time waste. Also the railway

has to maintain the change of the paper-rolls regularly. Thus in the next section we will discuss in detail about each aspect of the technology we will be using in our system.

III. METHODOLOGIES

User App-

1) The user has to first create an account.
2) After Registration with the app and payment wallet sign in to the account.
3) Choose one trip
4) Check availability of the trip
5) Check for the near me option in case of unknown place
6) Check for vehicular options
7) Enter the details of journey
8) Confirm the journey details
9) Confirm the payment
10) Get the QR ticket

Admin- The admin can manage and verify for the vehicle options, seats availability and monitor the booking system.

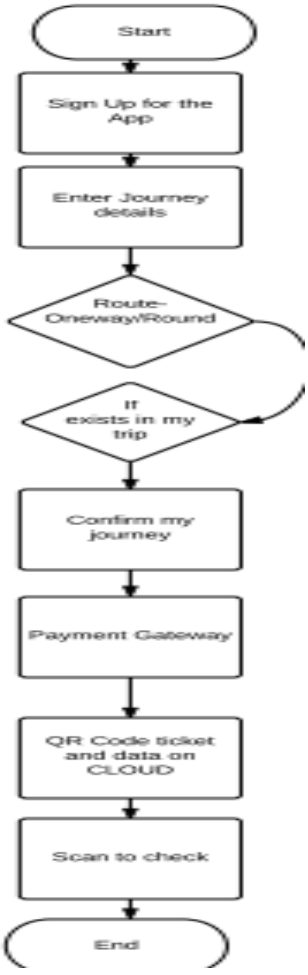

Fig.3.1-Flowchart

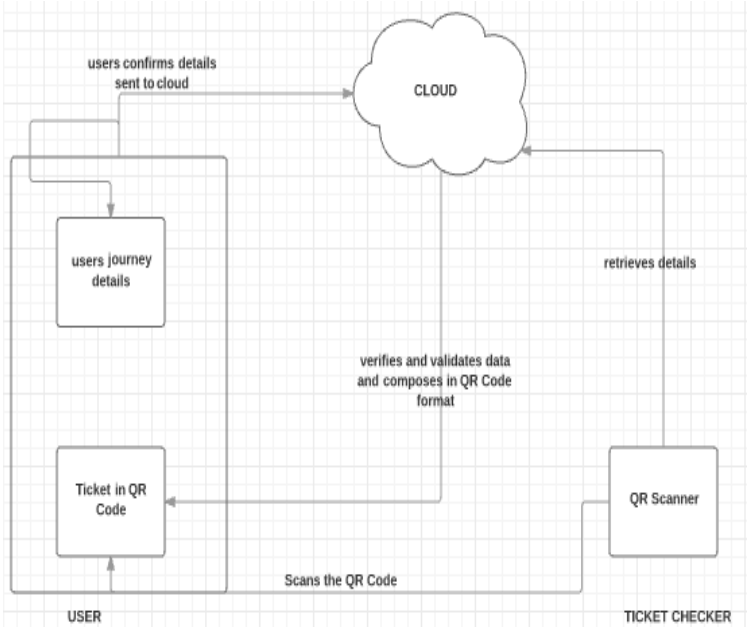

Fig. 3.2- System Block Diagram

As the current ticketing process in any transportation system works manually and needs human assistance also maintenance and is not efficient also not so quick. Thus here in our proposed system the main objective is to develop an android application so that they themselves can book their ticket directly from their smartphones which is ready to hand and also easily doable to layman, convenient to carry and also time saving. Thus the process of standing in long queues for purchasing tickets is curdled.

IV. COMPARISON

This ticketing application is applicable to all systems that deals with validating bookings.

Table I- Comparative Analysis

Parameters	Existing System	Proposed System
Generating Ticket	Efforts required increases-manual printing.	Tickets generated in QR Code format.
Ticket Booking	User has to visit the site or stand in the queues.	This system aims to provide on time instant schedule.
Ticket Validation	Checker needs paper ticket to validate or message in case of E-ticketing	QR Code is scanned for validation purpose.

V. FUTURE SCOPE

Further advances that can be made is fitting GPS devices on the trains to show its location in the Google map display which is available in our application. Here the manual ticket is replaced with digital QR Code and also requires scanning of this QR Code for validation. Dynamic display of Train locations by fitting GPS devices on trains will update the admin and this could be then flashed on to the users. Also as the user reaches the platform he will get to know about the arriving train expected timing and on which platform.

If Quick TM can be integrated in Google Maps, it can enhance Google Maps. Quick TM can be used to create an entire analysis system to understand mass movements of the public & thus make better decisions for infrastructure as well data can be used for Advertisement Industry.

In disasters, users can more easily be tracked down as records would be available which user took ticket at what time & where he can be expected.

VI. RESULTS AND OUTPUT

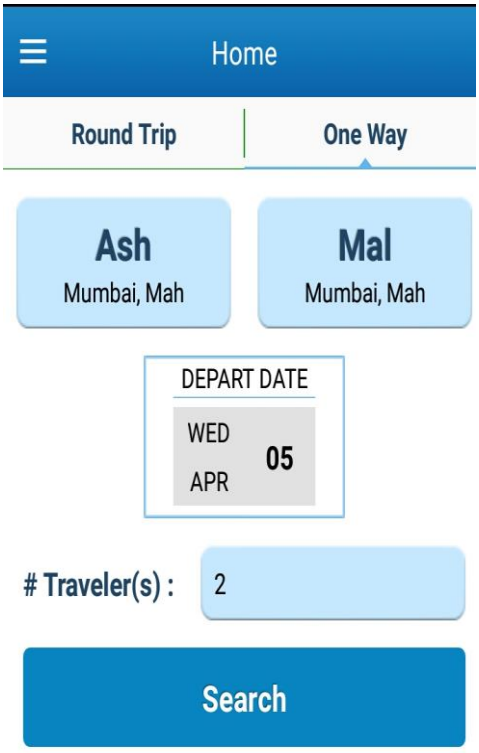

Fig. 6.1 User journey details of destination and type

Select the Destination and use near me to find the nearest station.

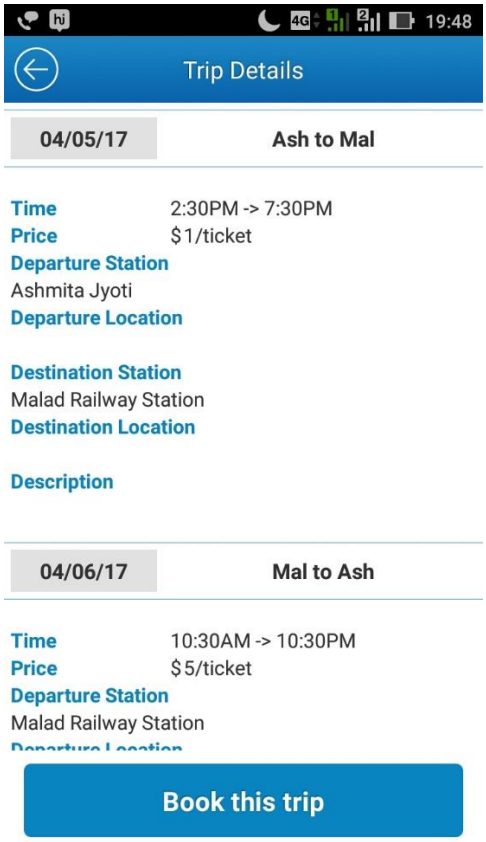

Fig. 6.2 User Trip details

Get the details of the journey and the vehicular options.

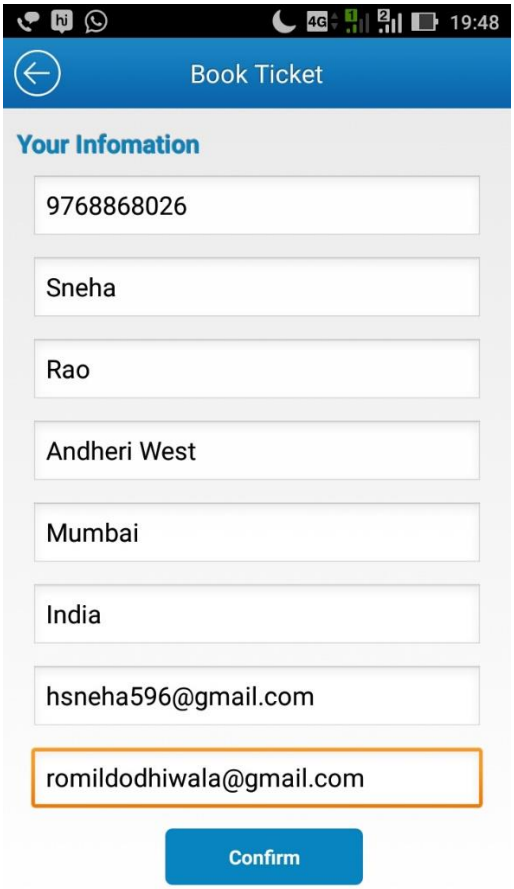

Fig. 6.3 User credentials

Confirm your details and make payment.

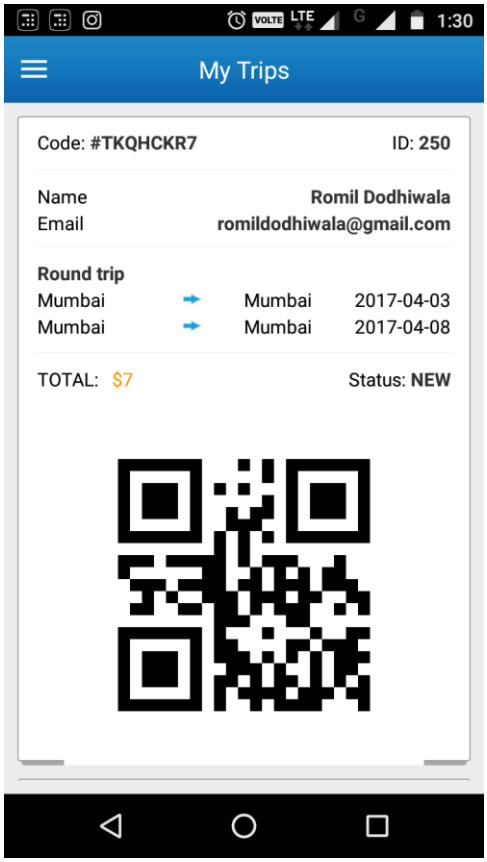

Fig. 6.4 Users Ticket in coded format

Your QR Ticket.

Admin side-

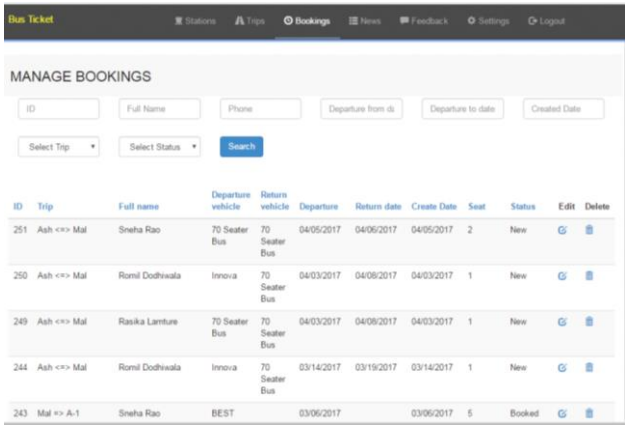

Fig. 6.5 Manage Bookings

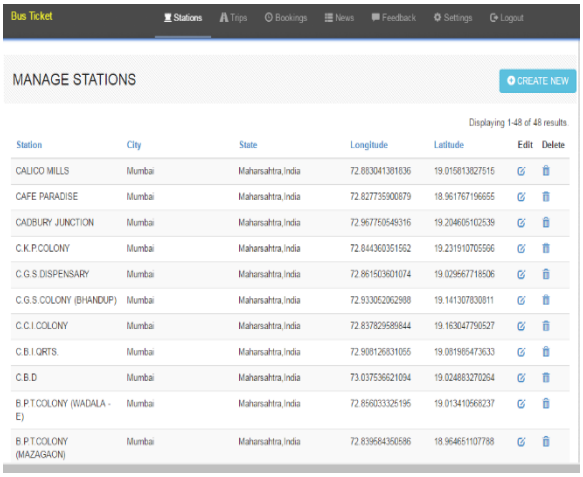

Fig. 6.6 Manage Stations

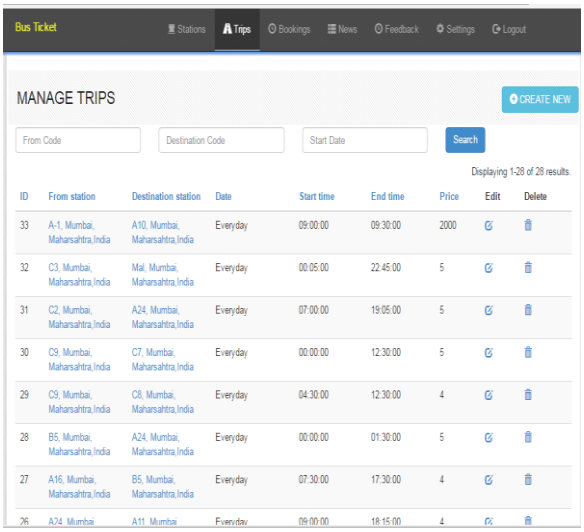

Fig. 6.7 Manage Trips

VII. CONCLUSION

Although concerning to the railway transportation system, it has tried to provide many other alternatives for the ticket booking process but it has not found to be that effective and convincing to the daily commuters. Hence a new system is proposed which has the reliability of the ATVM machines and versatility of M-Ticketing system. It also overcomes the drawbacks of the previous systems and inherits the advantages of them. Thus it can be considered as an improvised version of the previous systems.

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