

SUB URBAN TRAIN E – TICKET BOOKING IN RAILWAY SERVICE

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Abstract—*Paper tickets are mostly submitted for E- Tickets consequently reduced paper cost and all process made more dynamic. The passenger receives the ticket to his mobile SMS or E – Mail first, In Ticketing therefore Mobile Phone became the major platform to function. But still there how the local train passengers can book the tickets using android mobile with the use of E- Wallet facility of IRTCTC, having been said it's both positives and negatives.*

Keywords—*Android System, E-Tickets, E-Wallet, Paper Tickets, Sub Urban Train.*

INTRODUCTION

With dramatic changes and developments in information technologies (IT) in routing operations, influencing also the various developments on other sources, by the by, Tourism and Transportation is the most affected sector with the use of IT, because now a days it has become a handy work to get information about the destinations and its transport tickets availability, booking accommodations there and even the tourist places' tickets also with computer or smart phones and internet in it from your sitting place without any temporal restrictions. If same has to be done in paper-bases tickets cause loss of time and chances. Paper tickets are mostly substituted for E-Tickets consequently reduced paper cost and all process made more dynamic. The passenger receives the ticket to his mobile through SMS or E-Mail first, what is required to be produced to the ticket inspector in travel when he is asked to do so. In E-Ticketing therefore Mobile phone became the major platform to function.

As indicated earlier, Tourism and Transport is the widely using field of source in e-ticketing, it can also be used in other fields. Leisure sector has some examples of e-ticketing systems application. They can be used to book sport events or any other kind of live show (Theater like). The above said things are almost on its line in operation but still there is not 100% E-ticketing. It has not achieved because of local transmit of people still bounded with paper tickets or paper passes. This article discusses here the local transit E-ticketing and its consequences. This paper tells how the local passengers can book the tickets using android mobile without standing in long queues and wasting time for completing the ticketing process.

BACKGROUND

Currently there are various android apps available to find the local train schedule, train stops, routes, passing by trains, etc. But with such apps there is no possibility to book tickets and receive the ticket in SMS to the registered mobile number. If this is done successfully we could achieve ease of ticketing and 100% E-ticketing system in the nation. To overcome this limitation and do ease of operation, E-Wallet system has been developed which is been the easiest and safest local train ticket booking process. This system is entirely new concept because it works for local train ticket bookings especially with E-wallet system.

E-Wallet is the latest developed process of the IRCTC website, which allows the users to use it as their manual pant wallets (User friendly) can deposit amount in to it and use for booking tickets through that, need not wants to feed card details every time, redirecting to the bank website for transaction approval and then to IRCTC site again to confirm bookings, if it is so, that looks similar to the passengers standing in queue for long time. This process is prohibited by the

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E-Wallet system of booking. It is highly benefit to the frequent train travellers. But the drawback of it is only the PAN verified customers can have wallet and it is in use only for long travel trains but this article is to minimize the ticket booking time of local train travellers using android mobile with E-wallet system and to get the e-ticket to their respective registered mobile number and e-mail id.

SUB URBAN TRAIN SERVICES IN INDIAN RAILWAYS

The Comptroller and Auditor General of Indian submitted a report on the suburban train services in Indian Railways, between 2010 – 2011 and 2014 -2015, on July 26, 2016. Suburban trains are passenger trains that cover short distances of up to 150 km. These trains help in facilitating movement of passengers within cities and suburban's. Suburban train services are provided in seven zonal Railways and spread over 1,763 km., providing services to the cities of Mumbai, Kolkata, Chennai, and Secungrabad.

SUBURBAN PASSENGER TRAFFIC

While suburban passengers comprised about 73% of the total passengers carried by seven zonal Railways between 2010 -2011 and 2014 – 2015.their earnings constitute 14% of the total passenger earnings. In 2014 -2015, Eastern and Southern Railways, and Kolkata during 2014- 2015 was 1% less than the previous year.

SUBURBAN RAIL SPEED RESTRICTIONS

TRAIN SPEEDS GET RESTRICTED DUE TO

- Weak condition of tracks, point and crossings,
- Encroachment along tracks, and
- Weak bridges. CAG also found that Indian Railways did not initiate effective measures to remove these speed restrictions.
- Withdrawal of speed restrictions.
- Removal of encroachments, and
- Replacement of over-aged rolling stock (wagons, locomotives) should be expedited.

USE OF TECHNIQUES

1. **Technical components:** in E-Wallet system are of the following
2. **Android:** Operating system, an open Linux kernel
3. **SQLite:** Relational data base in C programming library
4. **Eclipse:** multi-language integrated developmental environment
5. **Android SDK tools:** Set of developmental tools like debugger, emulator etc

Systematic Structure:

In E-Wallet system of working it has the following module of functions. Initially the user has to download the latest version of local e-ticketing application from the Google play store. Once user logins and signups he has to transact for initial amount deposit into the wallet and then he can check for the balance in it. Having sufficient balance in it users can book tickets by entering the required details of their travel and get their e-tickets into their mobile. Users can also view the record of their previously booked tickets.

Sign up:

Once the user downloaded the application from Google play store, app requires him to full in all required details of registration form in sign up process and saves it in the database and used only during sign in process

Log in:

User can enter into the app with their respective valid username and password as a process of validating weather user is valid user or not, if user id and password match then allowed to enter or else not. Log in is divided into user login and admin login, the former is for the end users whereas the latter is only for the administrators.

User module:

After sign in and login gets completed the user has to proceed with the user module displayed in application having wallet, booking, transaction, and tickets options. Each one has its respective tasks to do so that ticket can be booked in few seconds or minutes.

Admin module:

The admin has freedom to access his account with proper admin log in. Admin has to enter the station details and fair details will be added to the database. Admin can also use update option to alter the station details.

Booking:

Here the user has to feed in all details of his travel date and time, destination and starting point of stations. After feeding the details of trains and tickets will be shown and if booking confirmed relevant amount is deducted from the wallet.

Wallet activity:

In this user can check is debit and credit transaction amount when he deposits or books the ticket using wallet.

Ticket details activity:

After booking activity application shows the data given to it for ticket booking to reconfirm the details and proceed for booking or if any mistakes it lets to alter details for correction.

PROS AND CONS OF E-TICKET WITH WALLET

The major advantage of this system is reduction of time consumption in booking paper tickets in ticket counters. It does not require to enter you card details every time when you book your ticket in online. Problem of bank server down in transacting the amount can be put to an end science it is not need to get redirected to bank service therefore you can still book tickets even if your bank website is out of service. This system of booking will be much more advantage to the people who does not have their cards at the time of booking tickets. Above all on the other hand it has some draws, only the admin can manually update the station details not the end users and only the android OS users can get benefited out of this system no other OS users which could be solved in future advancements.

CONCLUSION

Sub urban train ticket booking was not looked up in development process. It is said that more than the number of long distance travellers the daily routine travellers are more. Every day getting train tickets or pass form is not taken in to account itself in E-modern management of ticketing. In this paper suburban train E-ticket booking system using Android SQLite data base and E-Wallet system has been done having been said it's both positives and negatives.

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