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INTELLIGENT RAIL-BUS TRAVEL SYSTEM

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ABSTRACT

The paper is all about the "intelligent rail-bus travel system". The paper have three models i.e. Booking, Searching &Live Status and AutoFill. It is consider that connectivity of users will provide a better way to understand the reservations and solve their problems. This paper allows authors to analyze on various seats of rail and bus both, their interesting stuffs and anything related to reservation and searching of seats availability or live status of trains or buses technology. It's a fun and an opportunity for users to diverse and explore the culture of reservation.Android is one of the developing platform and every day there is increasing number of user's. There a number of passengers who regularly travel in local train, those customers have to wait for a long time to take their local train tickets daily, this becomes a tedious process. The local train E-ticket reservation with wallet system helps us to overcome this process. This approach saves our estimable time by making complete procedure online. Database technology plays a vital role in business applications and it has evolved from paper work to query processing. Here data are stored in SQLite database which is an embedded database available in Android. With the use of this approach the time consumed for taking tickets is minimized.

Keywords : Auto Fill, Booking,Live Status, ,Railways, Searching

I. INTRODUCTION

The Internet plays a vital role and everything in this world is evolving as per the technology and we to adapt to the new technology. In the beginning of modern era, Computers played a major role, only high level operations and for performing research computers have been used initially, only few peoples were using computer and then people started using computer for their personal use. Later emerged the mobile technology and now mobility became everything. Everything made easy using mobility. Since the customers' Internet activities have shifted from using browsers to mobiles, there arises the new opportunities to interact with products from mobile. Local Train and bus E-Ticket reservation using java application is a business application which is targeted for smart users, which helps customers to book the tickets. This paper describes how the customer can book the tickets without wasting theirtime in standing in the queues for hours in completing the billing process.

The Indian Railways and bus (IR) carries about 5.5 lakhs of passengers in reserved accomodation every day The Computerised Passenger Reservation System(PRS) facilates the booking and cancellation of tickets from any of the 4000 terminals(i.e. PRS booking window all over the countries). These tickets can be booked or cancelled for journeys commencing in any part of India and ending in any other part, with travel time as long as

72hours and distance up to several thousand kilometer . This paper is all about online booking of tickets for rail or bus.. This will help the passengers to book tickets easily online. Any passengers can cancel the tickets online if they want to.

II. LITERATURE REVIEW

There are number of applications which provide information regarding suburban trains such Users can find trains and buses between stations, find passing by trains and buses for a station and possible to search by train and bus number. But user cannot book or get a ticket in online for suburban train or bus. To overcome this we have proposed a system along with the booking process.According to an IRCTC official, the current system takes a relatively long time to get tickets from the counter and if the transaction is made online every time it will also take long time as customer is directed to a bank's service, from IRCTC service, to make the payment and the again redirected to the IRCTC website.This system is under development for long journey trains and buses not for the local train, the proposed system will be more useful for the local trains also.If we see through social media and internet market there are various sources like paytm from where you either book or search trains or bus but there is no any feature of auto fill, which is important in this generation because this reduces time of booking which will automatically increase the chance of having ticket confirmed specially incase of train booking. This paper let people to save the details of booking earlier and in the time of booking, just on one click, all the details will be filled on their respective places. Existing problems in the current system are Due to less server network it is hard to reserve a seat in railway and buses for immediate travelling,Intelligency is still needed in the Irctc application Live status checking option still needs and improvement in railways and haven't included in bus reservation application, Problem in matching Username in the Irctc website is still not resolved for registering first time in the website**.**

III .PROPOSED METHOD

To minimize the booking time at ticket counters so that the an web application allows the customers to pay from itself. In practice, the application can be used widely to enhance the quick booking of tickets.

Oracle

oracle is a relational database contained in the C programming library. It is the popular choice for storing the user information within the application and it is stored in the client side. It is the most widely used database. Database created can be accessed by name to any class in the application and it cannot be done outside the application or any other application. It helps the developers in handling data in a simple way with the use of database features

DEVELOPMENT TOOL

Eclipse and Android SDK Tools are integrated development environment (IDE) for designing and developing the Java based applications

ECLIPSE

Eclipse is a multi-language integrated development environment (IDE) which comprise a base workspace with extensible plug-in systems. The applications are mostly developed using Java and other languages can be used by adding plug-ins.

This paper Intelligent Rail-Bus Travel System will provide better availability of tickets as both bus and train tickets are available here.You need not enter your payment details, every time you wish to book a ticket
The problem of traffic in the internet server can be solved.You can avoid 'Session Expired' and 'Session Timeout' errors due to delay.You can still book train tickets even if your bank website is offline.It is really useful if you don't have your own credit/debit card.Only the administrator should manually update the Station details.Intelligent rail bus travel system is an open source distributed database management system designed to handle large amounts of data across many commodity servers, providing high availability with no single point of failure. The purpose of this paper is to provide tickets to public in the comforts to their home/residence and to save them from hassles to visit 'Railway and Bus Reservation Centers.' By doing this, we not only saving time of public but also saving their cost of traveling/parking to these centers. For Railways and Buses it is saving on their infrastructure i.e. Buildings, Air-Conditioning, Electricity, Furniture, Staff etc
The following photo identity cards are considered valid.
Voter Identity Card,Passport o PAN card, Driving License o Central/State Govt. issued Photo ID card,Payments for e-Tickets can be made by Credit Cards (Master/Visa), Direct Debit or Cash Card
Reservation Methods:Online Booking: With the help of this , people can book their tickets online through internet, sitting in their home by a single click of mouse. Using their credit cards people can easily get their tickets done within minutes. There are certain charges for online booking as well.Counter Booking: This is the oldest method of booking the tickets. The reservation counters are there at railway department from where people can get the tickets to their respective destinations.

Different Models Of This Intelligent Rail Bus Travel System .This whole paper is divided into three

Booking: Here in this model, when a passenger visits the app, he/she can book tickets. This app willbe more convenient for the passengers as they can book tickets for both bus and train. People can easily book tickets by selecting their choice and payment and booking will be done.
Searching & Live Status: If the passengers wants to search or enquiry about any train or bus then they can simply search in this app. Features like live status is also present in this app, so Passengers can check the live status of any bus or train
Auto Fill: This is third model of this paper. This provides a AutoFill options for the passengers to automatic fill the details which will surely reduce the required time to book any tickets and it will become more easy to book tickets.

IV. IMPROVED SYSTEM WITH INTELLIGENCE

Step 1 Manage reservations and seating effectively
Step 2 Safe and secure payment gateway module
Step 3 Detail reports for managing trips
Step 4 Save time spent by standing in queue for purchase
Step 5 Pay online using online payment facility
Step 6 Take a ticket printout
Step 7 Counter booking using online application
Step 8 Generate detailed report of sales details
Step 9 Manage various trips, rates and types
Step 10 Allow users to reserve seats online
Step 11 Allow user to pay for tickets online by Integrating system with EBS and benefiting of their service
Step 12 Live status tracking through Sms and email to the passengers for both railways and buses .
Step 13 Username is not a problem for new users .
Step 14 This application will notify about every details of journey to the customers

V.WORKING MODEL OF INTELLIGENT RAIL BUS TRAVEL SYSTEM

STEP1 Register/Login

Here first time when users visits this web app he/she needs to register and from then onwards he/she will need to login every time he/she visits. For Registration customer needs to enter name, emailed, mobile no and address

STEP 2 Selection

seats is then available for the user. As we see in the image below it shows lots of options for the users andhe/she can select it from there

STEP 3 Enquiry

Now come to the next step, after checking the seat, the user needs to proceed to the booking stage

VI.CONCLUSION

The steady growth of railway and buses paper emphasizes an increasing acceptance of the Internet ticketing system over time. In general, the conclusion is that if online ticketing initiatives fulfil a perceived consumer need, they are acceptable to a wide range and increasing number of customers

VII.FUTURE WORK

In future some features can be added in this intelligent rail bus travel system as one could print a bar code as a ticket which will be linked with Aadhar or any other identity proof so that whenever any checking of ticket happens, they will scan that bar code and identity verification can be done easily and accurately .This will reduce all fraud ticketing which is happening now a days .

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