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SCHEDULING BASED NOTIFIED TRACKING BY RAILWAY NETWORK USING MOBILE USER APPLICATION

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ABSTRACT

The scheduling based notified tracking by railway network is software projecting that supports the railway network track system services as per train schedule. The project is designed with a good GUI that allows monitoring and controlling various trains on the network. It has happened more times that people have been waiting on railway station for some train to arrive. But don't have any exact notification about train arrival timing and other stuff. The tracking by railway network system operates on train schedules and plans appropriate tracks for trains to pass as per their decided route and scheduled time. It has been designed to support and maintain data for multiple trains on the railway network. The train scheduling time and scheduled routes are maintained in a database by admin every time. The train passes on a scheduled track the further track cross or joins are managed properly as per the train scheduled route and time. Once the train passes the track is then configured for the next scheduled train to pass. This system can be used in local stations and junction. This system helps traveler to know about train delays and timing. Existing system not provide accurate details, but this system will provide accurate details about the train scheduling delay and timing in mobile application.

KEYWORDS

android mobile, android application, scheduling based notified tracking by railway network.

1.0 INTRODUCTION

It has happened so many times that you have been waiting on railway station for someone to arrive and you don't have any exact information about train timing and other stuff. So here we present to you a project on Railway Tracking and Arrival Time Prediction. Using this system user's can get the information about train timing, and is it on time or not, and other information. In this, system will track the train timing at what time train departed from a particular station and pass these timing details to other station's system where it will display the timing according to train departed from previous station. If system will find any delay in train due to signal it will automatically update the train timing in next station and will be displayed to viewers.

In this system there is an admin module, who enters the detail about trains and its timing and these details will be passed through internet server and is fetched by the system on other stations, and there is other system that shows train information to the viewers on platform. Second system will get all the information of all trains but will automatically select the data that refers to particular station and shows that information on screen. For example, if an admin at Mumbai station enter information about Delhi station Chennai station system will not be effected, but Delhi Station system will show the information about train. This system works like – when train is departed late from a station, admin will enter details about departure and its time, and this information goes in real time on internet server and retrieved on other system through internet server and shows the details on screen. Station masters on every station have a login where in them may update train arrival time at their station when it arrives. This second System is installed on various locations on station for viewers to view the information. Admin will add information like train departed from station, expected arrival at destination, delay in the train schedule, etc. This project publishes real-time train schedule events to subscribing multiple client applications.

1.1 ADVANTAGES

1. This system help commuter to know about train delays and timing.
2. System will provide accurate details about the train.

2.0 RELATED WORK**2.1 EXISTING SYSTEM**

The existing railway reservation system has many shortcomings associated with it. In the existing system railway used to set train reservation levels higher than capacity to Compensate passenger cancellation and no-shows accounting tooverbooking in the agent frequently to do so thus wasting time and money for all. Inthe existing system integration of different railways on single platforms was not met. With the advent of the online reservation system these flaws can be overcome.

2.2 DISADVANTAGES OF EXISTING SYSTEM

- High expensive
- Time taken procedures and methods
- No portability
- No user friendly

2.3 PROPOSED SYSTEM

The new onlinereservation system maintains the database centrally giving the clients the information required from anywhere in the world whenever required. This system requires the use of API through which it interact the data from a central databasemonitors all the data exchanges that are made at the client side to it and updates itautomatically. Through online reservation system customer is able to book &purchase a ticket thus saving time money for the customer and railway/agent. As the information is stored centrally the customer never loses his ticket as in the existing system.

2.4 ADVANTAGES OF THE PROPOSED SYSTEM

- Significantly lower expenses.
- Time savings by not having to ship paper or to reenter data into a computer.
- Richer, more complete and more accurate data.
- Remote deployment to travelers; and in many cases.
- The ability to use devices that you already own.

3.0 MODULES

- Administrator Module
- Passenger Login Module
- Passenger Registration Module
- Train Search Module
- Ticket Reservation Module
- Train Tracking Module

3.1 MODULE DESCRIPTION**3.1.1 Administrator Login**

The whole system is controlled by an administrator, administrator login into system by giving his authentication details such as username and password. After login into the system, he can see the trains currently available to the passengers. The train details are train name, departure, destination, availability, and running days. And administrator can also add a new train into the databases.

3.1.2 Passenger Login

In this module, the user can login into the system by providing their credential, if user is new to this application, and don't have their credential details such as username and password; he can register as a new member in this system by registering.

3.1.3 Passenger Registration

If any user doesn't have username and password to login into the system, then he can choose to register as a new member by choosing register option. He prompt to give his personal and contact information such as name, address, phone number, email id, and he can choose his own username and password. If registration is success then the user can login into the system, by username and password chosen by him/her.

3.1.4 Train Search

After successfully login into system, passenger can search the available train by their requirements. The requirements may departure, destination, journey date. The list of available trains is shown to the user. Then user may select any train and make ticket reservation. If no train is available, then user may change the journey date, departure, or destination.

3.1.5 Ticket Reservation Module

If the journey date, destination and departure is match for a train then the passenger can select the particular train, after selecting the particular train, user will get the train details and seat availability in each class, the classes will be AC, Sleeper and seater class. User can select any class, and input the number of seats to reserve, if the user selected seats not available then he prompts to give only select seat less than or equal to available seats. After selecting no. of seats, user can make payment, when heready to pay, the details of reservation will be shown to the user such as class, number of seats, total amount. Then the user may confirm or cancel the payment. If he confirms the payment then only the ticket will be reserved for that passenger, otherwise it will be open to all.

3.1.6 Train Tracking

The passenger has the options to track the Trains in real time. Trains physical location will show in the map with the place currently train is travelling. Passenger can select particular train, and then train details such as previous station, next station, train started date and expected time to reach the next station are shown to the user. The route covered by the train is shown as a yellow line, and route to be covered will show as the dotted yellow line. The trains currently running on time will be shown in blue color, and trains currently running late will be shown in red color.

4.0 SYSTEM DESIGN**4.1 SYSTEM ARCHITECTURE**

We strongly believe that the correct combination of latest information and communication technologies can provide an effective and feasible solution for the requirement of a reliable and accurate train tracking system to improve the efficiency and productivity of India Railways. The solution we propose encompasses a powerful combination of mobile computing, Global System for Mobile Communication (WIRELESS), Global Positioning System (GPS), Geographical Information System (GIS) technologies and software to provide an intelligent train tracking and management system to improve the existing railway transport service. All these technologies are seamlessly integrated to build a robust, scalable architecture.

5.0 PROJECT DESCRIPTION

Passengers can track for the train in which trains are available. For this, passenger has to provide the desired train number and the date for which ticket is to be booked. Before booking a ticket for a passenger, the validity of train number and date is checked.

Once the train number date is validated, it is checked whether the train is available. If yes, the ticket is booked with confirm status and Corresponding ticket ID is generated which is stored along with other details of the passenger. If waiting lot is also finished, and a message of non-availability of time is displayed. The train can be cancelled at any time. For this, the passenger has to provide the train ID (the unique key). The train is searched and the corresponding record is deleted.

6.0 CONCLUSION

After seeing many advancements and changes in the location tracking technology, Indian Railways now has the ability to pin point the location and other attributes of an operational train in an economical accurate manner. Thus it is visible that to keep up with the today's demand for information and to comply with the citizen centric governance, technological advancements is essential for a 3rd world country, as after all the deciding factors of a country's success would be on the how collaborative and duplex the governance framework in terms of seamless information flow of accurate and timely information between governance ecosystem.

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