**MINI PROJECT**

**ABSTRACT**

**Group Members,**

**Haneena Sayed Muhammed**

**Fathima Zayyina**

**Gopika**

**Simi K Ramdas**

**RAILWAY RESERVATION SYSTEM**

The purpose of Online Railway Reservation System is a software application which provides the train details, route details, route fix, route cancellation, reservation, cancellation and ticket issuing. Using this system a person can perform operations like finding out the train information and to know about PNR status, seats availability and costs of each ticket etc.

The system is designed to handle all the activities of the passengers, staffs as well as the administrative level. The system will have the ability to search the route information about different trains, routes and reservation status and remaining seats of a particular train. The database will be updated automatically in a real time manner. This system is for railway so that primary users of the system are the passengers, staffs and the administrative panel.

The main users in this system are:

* Administrator
* User

**MODULE DESCRIPTION**

The different modules are**:**

* Administrator Module
* Passenger Registration Module
* Train Search Module
* Ticket Reservation Module
* Ticket Cancellation Module

**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, seat availability, and running days. And administrator can also add a new train into the databases.

**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.

**Train Search**

Passenger can search the available trains 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.

**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 trains 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 prompt to give only select seat less than or equal to available seats. After selecting no. of seats, user can make payment, when he ready 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.

**Ticket Cancellation Module**

An E- ticket cannot be cancelled at any Reservation counter of the Railways. It can only be cancelled online. The passenger can cancel the E-Ticket before preparation of reservation chart of the train by logging in his User ID and password. Reservation Charts are normally prepared 4 hours before departure of the train from Train originating station. Cancellation is not possible through any other User ID and password. Upon cancellation of ticket, IRCTC will process the refund electronically and credit the amount in same account which was used at the time of booking of tickets.

**EXISTING SYSTEM**

At present system you can get complete information regarding train schedule and seats availability just sitting at your place but the drawback is the procedures are very complicated for an ordinary man otherwise have good knowledge in computer operation. So, the status of the train reservation is unpredictable for the passengers and they don’t have enough knowledge about the running trains at different locations so, there arises a need to visit the enquiry corner so as to collect the detailed information about the desired train.

## PROPOSED SYSTEM

The project, Railway Reservation System aim is to provide a secure and easy way to book train tickets. This project should be able to manage all the reservation related functions.

**PURPOSE:**

The purpose of Railway Reservation System is a software application which provides the train details, route details, route fix, route cancellation, reservation, cancellation and ticket issuing. Using these system ticket counter person can perform operations like finding out the train information and to know about PNR status, seats availability and costs of each ticket etc.

**Features:**

* This application is an automated railway ticket booking system.
* The administrator should be able to enter any change related to the train information like change in train name, train code etc.
* The system should be able to reserve seat in a train for a passenger.
* The system should be able to print the report like it should be able to generate reservation chart, train report, reservation ticket which will have train code and name, date of journey, boarding station, destination station, person name, age, sex, total fare.
* The system should be able to cancel a reservation.
* The system should be able to print after cancellation which will have total fare and the amount deducted.