**Advance Train Seat Allocation**

**ABSTRACT**

**Reserved Seat Database In Railway** contains the details about flight schedules and its fare tariffs, passenger reservations and ticket records. An Railway inventory contains all flights with their available seats. The inventory of an Railway service is generally divided into three category of classes (e.g. First, Business or Economy class) and each category is having seats up to 72 bookings, along with prices and booking conditions. Inventory data is imported and maintained through a Schedule Distribution System over standardized interfaces. One of the core functions of the inventory management of Railway reservations is the inventory control. Inventory control steers how many seats are available for the different booking classes, by opening and closing individual booking classes for sale. In combination with the fares and booking conditions stored in the Fare Quote System the price for each sold seat is determined.

**Introduction:**

* Reserved Seat Database In Railway is a complex online distributed transaction application based on client server architecture.
* The salient features of the software include allowing user from anywhere to do a booking for a journey in any airplane in any class from anywhere to anywhere; handling reservation, modifications cancellation/refunds.
* This project is all about the Railway reservation online i.e., Software includes allowing user from anywhere to do a booking for a journey in any airplane in any class from anywhere to anywhere; handling reservation, modifications cancellation/refunds.

**MODULES:**

1. Registration module
2. Administrative module
3. Passenger module

**1. Registration module**

In registration module first we ask passenger to give his details.After registering with us the passenger can logon to his/her own account and can view all flight details such as Timings, Prices, Availability of seats and can book the ticket with unique ticket id.Once Passenger registered with us can book any number of tickets.

2. **Administrative module**

Administrative module is provided for the sake of administrators to manage the site and update the content at regular intervals, The major operations included in this module are:

* Create and maintain airline schedule, fare and timings of the Railway.
* View the passenger list.
* View the available seats in the Railway.
* Cancel the tickets.
* Updating the flight schedule and timings and fare.

**3. Passenger module**

This module is meant for passengers, where a user logging into his/her owns account will view this panel. The major operations included in this module were

* View all airline schedules, timings, fare details and seats availability.
* Book for the tickets.
* View and cancelling of the ticket.
* Send feedback.

Behind these modules, it also includes additional WebPages like Password recovery console, Tips regarding journey, Traveling news around world and help regarding our site.

**EXISTING SYSTEM:**

In few countries if a person wants to book a Railway ticket, he use to follow one of these things:

* Manually goes to the Airport and book his ticket.
* Downloading the ticket form as paper document, filling it manually and submitting it at Airport.
* Fill the Ticket form on system and get the print out as paper documents to submit it at Railway.
* Booking the Ticket at some particular registered ticket counters in online.
* Even above approaches make a ticket booking online, it was not completely done on online. Passenger may not have much freedom over this approach.
* Hence the Passenger may or may not be satisfied with this approach as it includes manual intervention like travelling to Railway for booking his ticket.

**Disadvantages:**

* Time consuming
* Complex process
* No security
* More manpower requires

**PROPOSED SYSTEM:**

The Proposed system ensures the complete freedom for users, where user at his own system can logon to this website and can book his ticket. Our proposed system allows only registered users to book the tickets, view timings and cancel their tickets.

In this Proposal the entire work is done on online and ticket with id is also provided for passengers as a print document. Here passengers can send their queries and suggestions through a feedback form.

**ADVANTAGES:**

* Fast ticket booking happens
* No need of travelling
* Less manpower requires
* Easy GUI

# Software Requirements:

Front End: HTML, JAVASCRIPT

Language: ASP.NET, C#.Net

Back end: SQl Server

# Hardware Requirements:

Hard Disk: 80GB

RAM : 1GB