

3.1.2 : Online Reservation System

General Objective :

IRCTC website has various kinds of information that helps regarding booking of tickets via railways.

Users will be able to search the train availability ,the exact fare ,the arrival and departure time of the train and they can also book the ticket by using the debit ,credit or master card and after booking the ticket if the user want to cancel it then they can easily do it also.

Survey

Railway passengers frequently need to know about their ticket reservation status, ticket availability on a particular train or for a place, train arrival or departure details, special trains etc.

The number of the reservation counters available to the passengers and customers are very less. On most of the reservation systems there are long queues, so it takes a long time for any individual to book the ticket. As now there are no call centers facilities available to solve the queries of the passengers.

The online railway ticket reservation system aims to develop a web application which aim sat providing trains details, trains availability, as well as the facility to book ticket in online for customers. So, we thought of developing a web based application which would provide the users all these facilities from his terminal only as well as help them in booking their tickets.

The Application was to be divided into two parts namely the user part , and the administrator part. And each of these has their corresponding features. We decided to give the name of the website “ONLINE RAILWAY TICKET RESEVATION”.

The online railway ticket reservation system is developed using ASP.NET with C# as the back end in the .NET Framework.

Objectives

The objective of the online railway ticket reservation system Project is to design software to fully automate the process of issuing a railway ticket. That is:-

1. To create a database of the trains
2. To search the trains it's arrival and departure time,distance between source and destination.
- 3.To check the availability of the ticket.

4. To calculate fare.
5. To book the ticket.
6. To cancel the ticket if necessary.

Analysis

Online railway ticket reservation is a online ticket booking website, which is capable of booking ticket and search the train availability. This website is mainly created to fulfil the following requirements, it comprises of the following properties:-

- A central database that will store all information.
 - An online website that will provide real- time information about the availability of tickets their prices.
 - Every registered user is able to view his booking id that has been made in his/her name.
 - Every registered user can change his password any time he wants to change.
 - Every guest user can search train availability, price of the ticket, arrival and departure time ,distance between source and destination etc.
 - Every registered user has the facilities to print his ticket any time he wishes.
- Administration login
- In admin mode the administrator can make changes in train details.
 - He can also view all booking that has been made by different users.
 - The booking window contains all the facilities at one place, the user can simply login to his account and can book his ticket

Software Requirements Specification

Development Environments

Hardware Intel core 2 duo T6400 2.00 GHz with 2GB RAM, 250 GB hard disk space and other Standard accessories. Environment and Applications:

- ☐ Microsoft Windows 7.
- ☐ Microsoft Visual Studio 2010.
- ☐ Microsoft SQL Server 2005.
- ☐ Microsoft Internet Explorer.

Operating environment:

Hardware configuration: The minimum configuration for hardware is given below:

- ☐ Intel ® Pentium ® or higher processor.
- ☐ 65 MB RAM or higher Software configuration:
- ☐ Microsoft ® Windows ® XP or later versions
- ☐ A standard web browser.
- ☐ .Net framework

Implementation Details

System Overview

Online railway ticket reservation system is a web based application. It has been developed using ASP.NET and C# as the code end programming language. A MS SQL Server database consisting of multiple tables is used for data storage. This Website is a online travel booking website, which is capable of booking tour of national and international destination with easy steps at the cheapest rate . It allows the Administrator to perform all operations and view bookings. The general user is however given only restricted access.

Travelmasti helps in booking tour packages. The user can't book any tour until he is a Registered user.

Minimum Requirements

The software requirements to successfully run all the programs are

- Operating System - Windows 7, Windows XP.
- Microsoft IIS WEB server 5.0
- SQL Server 2005
- Visual Studio 2005