

Railway Reservation System

Project Plan

Software project scheduling is an activity that distributes estimated effort across the planned project by allocating the effort to specific software engineering tasks.

When you develop a schedule, compartmentalize the work, represent the task interdependencies, allocate effort and time to each task, define responsibilities for the work to be done, and define outcomes and milestones.

In order to build a complex system, many software engineering tasks occur in parallel and the result of work performed during one task may have a profound effect on work to be conducted in another task.

These interdependencies are very difficult to understand without a schedule. It's also virtually impossible to progress on a moderate or large software project without a detailed schedule.

Assumptions

There can be at most 3 admins for the management of system

Passengers are authentic users and no bots, agent accompany as the interface for booking tickets

Maximum of 5 tickets allowed per month per passenger No special Quotas provided, General exists by default

All these assumptions were either important or limited by our project development skills. We have not allowed more than 5 tickets per passenger to avoid the abuse of the system and passengers can conveniently and efficiently book tickets on the go.

3 Admins only since our system is small for current launched version and to avoid confusions since different admins can change different entities of system without being in sync which can cause potential problems which may be critical and can cause system failure

Bots are everywhere, agents can use bots to abuse the system for black marketing of tickets booked which can cause inconvenience to fellow passengers. Ticket booking for the whole journey and no captcha was limited by our skills.

Objective

This report shows the case study of the Railway Reservation System. This System is basically concerned with the reservation of railway tickets and Live Enquiries for the Passenger.

In this we are discussing how the reservation is done and What are the rules and regulations and procedure for reservation.

This project aims to provide a mechanism for the railway management to deal with a number of tasks efficiently using this system.

The database should be stored in the computer rather than in register/manually.

Features:

Searching of data is easy

Passenger don't have to wait for a long time
Information is accurate

It is a fast process

Data efficiency is more

Immediate Response for Enquiries

Complaints can be submitted

To keep pace with time, to bring about the best result without malfunctioning and greater efficiency so as to replace the unending heaps of files with a much sophisticated hard disk of the computer. One has to use the data management software.

The need of this system arose because as is the known fact that India has the largest railway network in the whole of the world and to handle it manually is quite a tough job.

By computerizing it, we will be able to overcome many of its limitations and will be able to make it more efficient. The handling of data and records for such a vast system is a very complex task if done manually but it can be made much easier if the system is computerized.

To be more specific, our system is limited in such a way that a train starting from a particular source will have a single destination. The basic functions being performed by our system are reservation and cancellation and different sets of Enquiries including feedback and complaints are just for demo purposes.

Although some of the functions like Live train status, canceled trains and PNR are connected to the official Indian Railway database directly or indirectly.

Problem Statement

Today one cannot afford to rely on the fallible human beings who really want to stand against today's merciless competition where it is not too wise saying "to error is human " ,no longer valid, it's outdated to rationalize your mistake. So, to keep pace with time, to bring about the best result without malfunctioning and greater efficiency so to replace the unending heaps of files with a much sophisticated hard disk of the computer. One has to use the data management software. Software has been an ascent in atomization in various organizations. Many software products working are now in markets, which have helped in making the organizations work easier and efficiently. Data management initially had to maintain a lot of ledgers and a lot of paperwork has to be done but now software product on this organization has made their work faster and easier. Now only this software has to be loaded on the computer and work can be done. This prevents a lot of time and money. The work becomes fully automated and any information regarding the organization can be obtained by clicking the button. Moreover, now it's an age of computers and automating such an organization gives a better look.

Scope Of Software

- All the manual work should be converted into computerized, so the load of employees should decrease.
- The database should be stored in the computer rather than in register/manually.
- Easy to store information rather and fast accessing of information.
- Centralized management reporting and decision support. Accurate and timely control program.
- To make it easy for fast processing and modification of different databases
- List of accounts of all customers is available and easy manipulation
- Easy retrieval of accounts.
- To make the railway system interactive and has a modern graphical responsive UI
- Quick feedback and complaint form including reviews Reduces the possibility for any mistakes