BUS SCHEDULING AND BOOKING SYSTEM

ABSTRACT

Travel industry is evolving day to day. As the industry evolves the need to digitalize all the transactions becomes need of the hour. This project which is implemented on Java platform helps to manage bus scheduling and bookings. This software is a globally deployable, integrated, workflow based end-to-end system starting from searching bus routes to book them online

Existing System

The existing system is not completely computerized. The customer has to visit any booking branch if he wants to book a ticket. Bus scheduling, ticket booking, bill generation and many other operations are done manually. This may lead to incorrect entries and there is a lot of room for errors as the data is not completely synced. The availability of seats is not centrally maintained and the travel operator is not fully aware of the availability and occupancy of the seats in his buses. This is the major bottle neck.

Proposed System

Bus scheduling and booking system is a web based application which is connected to a complete database. The database includes information about buses, no. of seats available, occupancy, availability, days and time of operation, no. of buses from point 'A' to point 'B', Price ranges, automated report and bill generation etc.
The database is updated time to time and a user can reserve his ticket from any part of the world and any time.
The application gives utmost importance to security and usability.

Modules

This application is divided into following modules

- Admin Module
- Bookings and cancellation Module
- Users Module

Module Description

Admin Module

This module deals with addition and deletion of routes, buses available, pick up points, dropping points, bus codes, passenger details and bus details. He has the complete control over the application. Only admin can perform these functionalities.

Bookings and Cancellation Module

The following functionalities are included in this module

- Search routes
- Select bus
- Select seats and pick up points
- Provide information and payment gateway
- Print booked ticket
- Cancel the ticket
- User suggestions/complaints

Minimum Software Requirements

Database package   : Oracle 10g, JDBC Driver.
Front end   : J2SDK 1.6.
Editor   : Edit plus.

Minimum Hardware Requirements

Processor   : Pentium IV or higher
RAM   : 512MB minimum
Hard Disk   : 40 GB