**AIRPORT MANAGEMENT SYSTEM**

**INTRODUCTION**

AIRPORT MANAGEMENT SYSTEM is the automation of airline ticket booking and cargo management. The project is aimed at exposing the relevance and importance of Airline Reservation Systems and management of freight. It is projected towards enhancing the relationship between customers and airline agencies, and thereby making it convenient for the customers to book the flights as when they require such that they can utilize this software to make reservations.

The project entitled “AIRPORT MANAGEMENT SYSTEM” is aimed to serve the interest of customers and to cover a widely distributed system. It consists of the airline management system as well as transportation of goods. The system will help the user to book their flight tickets without visiting booking counter or to any other booking vendors, thus saving their money and time. Airline Reservation System Project will be accessible by the user from any location through 24X7. Airline Reservation System Project will be user friendly and providing all the information on single screen just by single click.

For the purpose of freight, it is a system, which enables the customers to send cargo to various locations and to track the progress of the transmission using a web site. From companies level it is the system, which can be used to keep all the business information together and can do the business in a more flexible and efficient manner. It is a system, which enables the agency to keep track of all the details regarding the transmission of goods.   The aim of the system is to computerize the cargo processing as well as airline booking. All the details regarding the branches, cargo details and sending details are stored in a remote server.

**EXISTING SYSTEM**

Existing systems related to airlines are mainly aimed at ticket booking. The system that enables the user to keep track of the freight does not exist yet.

**PROOSED SYSTEM**

It is a system, which enables the agency to keep track of all the details regarding the transmission of goods as well as the users to book flight tickets online.   The aim of the system is to computerize the cargo processing along with ticket reservation. All the details regarding the branches, tickets, airlines, cargo details and sending details are stored in a remote server. All the branches can use these databases. When a user has to send a cargo, the details of the cargo sending is added in cargo details. It includes customer details, item details, quantity etc. also details of sending are added to the sending detail database. When the cargo reaches the neighboring branch, it is forwarded to the next neighbor branch until it reaches the destination point. There is a website which can track the sending details using an id. The cargo system is a real vast area with too many fields of operation. All these operations are aimed at improving the company resources by attracting customers.

The system also allows the airline passenger to search for flights that are available between the two travel cities, namely the “Departure city” and “Arrival city” for a particular departure and arrival dates. The system displays all the flight’s details such as flight no, name, price and duration of journey etc. After search the system display list of available flights and allows customer to choose a particular flight. Then the system checks for the availability of seats on the flight. If the seats are available then the system allows the passenger to book a seat. Otherwise it asks the user to choose another flight. The main purpose of this software is to reduce the manual errors involved in the airline reservation and cargo process and make it convenient for the customers to book the flights as when they require such that they can utilize this software to make reservations, modify reservations or cancel a particular reservation.

**SYSTEM SPECIFICATION**

Hardware and software requirements for the installation and smooth functioning of this project could be configured based on the requirements needed by the component of the operating environment that works as front-end system here we suggest minimum configuration for the both hardware and software components.

Working off with this software is requirements concrete on system environments. It includes two phases

* Hardware requirements
* Software requirements

**HARDWARE REQUIREMENTS**

* + INPUT DEVICE :MOUSE,KEYBOARD
  + OUTPUT DEVICE :MONITOR
  + MEMORY :512 MB RAM(MINIMUM)
  + PROCESSOR :PENTIUM III PROCESSOR

**SOFTWARE REQUIREMENTS**

* + OPERATING SYSTEM :WINDOWS 7/8 for better performance
  + FRONT END :ASP.NET(For web application)
  + BACK END :SQL server 2008
  + SOFTWARES USED :Visual studio 2010,SAP Crystal reports,

Android SDK,ADT Plugin,Eclipse)

* + WEB BROWSER :Internet Explorer/Google Chrome/firefox(for web application)
  + WEBSERVER :IIS(for web applications)

**MODULE DESCRIPTION**

AIRPORT MANAGEMENT SYSTEM consists of mainly four modules there are,

**User module**

In the case of user, can book their tickets by using Airline Reservation System Project by placing their necessary details such as :- date of journey, total number of candidates, number of adults and child’s, their respective age, type of seats, date of returning(if required but not necessary), address details, payment mode etc.

I.    Flight Booking System: Paying online for purchase of airline tickets. Customer will be able to choose from a number of available airlines.  
II.    Hotel Booking System: Paying online for hotel reservations. Customer will be able to choose from a number of available hotels.  
III.    User Website Accounts System: Creating and maintaining an online account on the website, in order to see status and updates on booked flights and hotels.  
IV.    Mileage Management System: Accumulating and Redeeming Mileage.  
V.    Travel Deals and Offers Purchase System: Paying online for purchase of travel deals and offers.  
VI.    Feedback Management System: Submitting comments and website satisfaction rating feedback.

**Administrative module**

I.    View Flights Schedule and Pricing details: Feeding the Airline Reservation System with view the details of flights schedule and pricing.  
II.    View details of Hotels Availability and Pricing: Feeding the Airline Reservation System with view the details of hotels availability and pricing.   
III.    View details of Travel Deals and Offers Availability and Pricing: Feeding the Airline Reservation System with view the details of travel deals and offers.

IV.    Feedback Monitoring and Response: Accessing users’ comments and website satisfaction ratings feedback. And responding to users as necessary.  
V.    Income Audit: Viewing purchases summary.

VI. viewing the cargo details

**Staff module**

I.    Flights Schedule and Pricing Update: Feeding the Airline Reservation System with updates of flights schedule and pricing.  
II.    Hotels Availability and Pricing Update: Feeding the Airline Reservation System with updates of hotels availability and pricing.   
III.    Travel Deals and Offers Availability and Pricing Update: Feeding the Airline Reservation System with updates of travel deals and offers.

IV. Manage cargo details.

**Cargo module**

1. Customer registration
2. View registered customers
3. Cargo Entry + Payment
4. Cargo allocation
5. View cargo allocation details
6. View cargo details