SOFTWARE REQUIREMENTS SPECIFICATION

**Online Airline Ticket Generator System**

PROBLEM DEFINITION :

Ticket reservation system for airlines has to be developed. The system developed should contain the following features

1.The system should contain the following features

2.Search for information about the flight by means of flight number and destination

3.While displaying information about the flight it has to provide availability of seats.

4.While reserving tickets the system obtains following information from the user Passenger Name, Sex, Age, Address. Credit Card Number, Bank Name. Flight number, Flight name, Date of Journey and number of tickets to be booked.

5.Based on the availability of tickets, the ticket has to be issued. The ticket issued should contain the following information –ticket number, flight no, flight name, date of journey, number of passengers, sex, age and departure time.

6.Cancellation of booked tickets should be available.

Introduction:

Purpose:-

The purpose of this SRS is to describe the requirements involved in developing an Airline Ticket Generator.

The intended audience is any person who wants to reserve or cancel tickets or to check the availability of Airline tickets.

Scope:-

The product is titled **Airline Ticket Generator**.

The product will perform the following tasks:

The software that is being developed can be used to check the availability of the flight tickets for the specified flight, destination and date of journey

If the tickets are available to the user’s needs and specification, then the software provide a facility to book the tickets.

If the passenger want to cancel the tickets, he can use the cancellation module of the Airline Ticket Generator.

References:

ICEE standard 830-1998 recommended practice for Software Requirements Specifications-Description.

Overview:

The SRS contains an analysis of the requirements necessary to help easy design.

The overall description provides interface requirements for the Airline Ticket Generator, product perspective, hardware interfaces software interfaces, communication interface, memory constraints, product functions, user characteristics and other constraints.

Succeeding pages illustrate the characteristics of typical naïve users accessing the system along with legal and functional constraints enforced that affect Airline Ticket Generator in any fashion.

♣Product perspective:

* Hardware interfaces:

Hard disk:

1. The database connectivity requires a hardware configuration with a fast database system running on high rpm hard-disk.
2. The system must interface with the standard output device, keyboard and mouse to interact with this software.

* Software interfaces

Back End:

Microsoft SQL Server

Front End:

Microsoft Visual Studio Windows Form Application.

* Operations

The user mode enables the end-users to do the end user operations like checking the availability, reserving and cancelling of flight tickets.

Product Functionalities:

Registration

The user must enter his personal information to get registered before accessing the system, he must enter all required information that is asked on registration page.

Viewing Flight Details

The user will have the access up-to-date information about the flights including

•Flight number

•Flight Name

•Flight route (Start and Destination stations)

•Flight timings

•Seat availability.

Reserving Tickets

The user must be able to reserve tickets after selecting.

•Flight number

•Flight Route

Cancelling Tickets

The user must be able to cancel tickets that he has earlier reserved by quoting the ticket number, credit card number and bank name.

Product Non Functionalities:

The product does not contain any extra excluded functionalities.

♣Logical Database Requirements:

* The system should contain databases that include all necessary information for the product to function according to the requirements.
* These include relations such as flight details, reservation details, and cancellation details.
* The user details refer to the information such as flight number and name, start and destination stations, seat availability.
* Reservation details refer to personal information that is obtained from the user.
* At the time of reservation, the passenger is provided a unique ticket no that could be used at the time of cancellation.
* While displaying any information about the flight it has to provide the following information:

• Flight no and name

•Availability of seats for the particular flight

•The flight timing

•The passenger personal details should be obtained for reserving the tickets