

C Programming Project

On

***Flight Reservation System***

Software Requirement Specification

(SRS) Document

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1. **Introduction**

1.1 Brief project description

The basic idea of this project is to generate a detailed ticket booking system that allows the admin to check the number of seats that have been booked and the user to book tickets as well check the status of the flight. It also records previous bookings of the user and stores it in its database. This project makes use of various concepts of C language to provide a less time consuming, simpler and detailed system for making the flight ticket booking experience a lot better for the end users.

1. **Project Requirement**

2.1 Software requirement C compiler, IDE

2.2 Hardware Requirement: Working Laptop or PC

2.3 Skill Required

* Basic knowledge of C
* Knowledge of functions, array, strings, menu driven programs, pointers
* Database creation using File Handling

1. **Functions**

**3.1 Login page**

The login page has the following options for login/sign up into the system

* User login
* Register New User/Sign up
* Admin/Staff login

**3.2 Register New User**

This option is for previously unregistered users. They are required to enter the following details in order to register. Once confirmation is done, they will be sent back to the login page

* Enter username
* Enter password
* Enter email address
* Confirmation then go back to login page

**3.3 Home page**

**3.3.1 Login as a user:**

If not, an existing user is then asked to sign up and returns to homepage. After logging in as a user, the following five functions will be done:

1. **Book a flight**
   1. Select type of flight

Displays domestic or international flights

* 1. Select source and destination

Display all the city and countries names

* 1. Select time and date of flight

Displays available flight timings of that destination for the user to choose from. System will check if it is available or not and will display the airlines list with departure and arrival time and price and category.

* 1. Select seat number
  2. Enter name and gender
  3. Enter contact information
  4. Display total price
  5. Apply any ongoing offers (optional)

Display offers for example, trip discount. The user may or may not choose an offer

* 1. Display revised total cost
  2. Generate ticket: Check confirmation: If true generate ticket

If false return to menu

* 1. Enter payment option

User has to select whether to pay from Debit, Credit or Net bankings

1. **Ongoing offers**

Display available offers/discounts on a booking

1. **Payment option**

Displays the different payment options

1. **Check ticket**

Display Flight No., Passenger’s name, Date of Journey, Departure, and Arrival time only if user enters PNR no.

1. **Cancel Reservation**

Display confirmation of ticket or cancellation of ticket only if user enters PNR no.

1. **Exit program**

Allow the user to exit the program

**3.3.2 Login as an admin:**

This login is for the administrator or the staff members. The following functions will be available to them.

1. **Change Flight number**

The admin can change the list of available flights.

1. **Change Flight Timings**

The admin can change the timing of the flight.

1. **Change No. Of Seats Available**

This feature makes it possible to change the number of seats available for booking.

1. **Change Class/Price**

Allows the admin to fix/change the class the user wants and the price for the same.

1. **Change ongoing offers**

Let’s the admin alter ongoing offers. He may add or remove them as per their expiration date.

1. **Exit Program**

Allows the user to exit the program.

1. **Project Scope**

The scope of this project extends to providing services like booking tickets online to users. In today’s time it is of utmost importance to provide a system that is efficient and less time consuming. Unlike the earlier times, this ticket booking management system, will provide an easier and impeccable approach.

**FLOW CHART**



