



SEMESTER PROJECT

PROGRAMMING FUNDAMENTALS

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Section: CS-2B

Airline reservation system

Introduction:

This system provides basic operation such as to add flight then book a ticket from it, can also delete, or update it. Admin can add a flight can also update and delete it too while user can book his ticket, update and delete it too a survey function for user is also there.

Section:

This system has total of 3 Sections:

1. Admin Section
2. User Section
3. Survey Section

1. Admin Section:

To access the admin section first password must be entered 3 chances will be given to enter correct password after 3 chances if correct password is not entered program will be terminated.

Upon entering the correct password Admin section will be accessible and admin will be able to perform several functions which Include:

- 1.1. Add Flight
- 1.2. View Passenger Data
- 1.3. Update Flight
- 1.4. Delete Flight
- 1.5. Exit

1.1 Add Flight:

First function that can be performed is adding a flight, admin will enter couple of data about the flight. After entering the data confirmation message will come if yes is entered the data will be saved and if no is entered the data will be discarded.

1.2 View Passenger Data:

This data will be showed after user book his/her ticket, user will book a ticket and all his data will be shown to the admin.

1.3 Update Flight:

The Flight that the admin added can be updated if admin want. Admin will enter all the data that he entered in the add flight and again the confirmation message will appear if yes then data is saved otherwise data will be discarded.

1.4 Delete Flight:

Admin can also delete the flight he added, he will enter the flight number to delete if he enters the correct flight number flight will be deleted.

1.5 Exit:

This will take back the program back to its Main menu where all the Sections were shown.

2. User:

There is no password required for user to enter in this block he will just do what he want simply without any problem, User functionality's are:

2.1 View Flight Schedule

2.2 Book Ticket

2.3 Update Ticket

2.4 View Ticket

2.5 Delete Ticket

2.1 View Flight Schedule:

In this section all the flight will be displayed that Admin added user can pick any flight he wants to book.

2.2 Book Flight:

In this section user can book the flight he wants to book first number of seats will be asked, after entering his personal data a random ticket will be allotted to him, and a confirmation message will appear which will ask him whether he wants to confirm his seat if yes ticket will be booked otherwise data will be discarded.

2.3 Update Ticket:

User can also update his/her ticket he booked earlier, all he had to do is just reenter all of his data again then confirmation message will appear saying yes will confirm the details and data will be saved.

2.4 View Ticket:

User could view the ticket he booked earlier if he updated his/her ticket after confirming his/her ticket his details about ticket will be updated too.

2.4 Delete Ticket:

In this section user can delete his/her ticket he just have to enter his flight number, upon entering it the ticket will be deleted and data from view ticket and from admin section in view passenger detail will be removed too.

2.5 Exit:

This will take the program back to Main menu where all the Sections were shown.

3 Survey Section:

In this section a survey will be done by the user about the experience he had after using this airline. He will be asked 5 questions and have to answer in yes or no every yes means 1 star if he gave 4 and above star he is totally satisfied with performance of airline, below 4 star suggestion about the performance of airline will be taken and will be stored in a file.

Working of whole Project:

In the start of the program global arrays are declared arrays for Admin and User function are declared separately.

Interface:

In the Main Function interface of the program is built, then a “display” named function is created all the sections in the program are defined, where 1 is for admin section, 2 is for user section and 3 is for Survey section.

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Project By M Usman Haider

Hint for Password: 12345

=====
A I R L I N E   R E S E R V A T I O N   S Y S T E M !!
=====

=====
M A I N   M E N U !!
=====

Which Operation you want to use:
1 - Admin
2 - User
3 - Customer Feedback/Survey
Enter any other Number to Exit

PLEASE ENTER ONE OF THE ABOVE OPTIONS:
```

Admin:

After that Admin sections start first password must entered password is "12345" 3 chances will be given in to enter correct password after that program will be terminated, first admin interface is built and the function which admin can perform are shown.

After that an "Add Flight" function is built where admin can add flights, first total flights are asked then detail about the flight like flight number, flight name, arrival destination, total tickets, price, and flight time are being asked then confirmation message will appear if conformed then data will be saved.

In Second Function "View Passenger Detail" all user data will be displayed about the ticket he booked like his name, email, phone number etc.

In Third Function "Update Flight" Admin can update the flight he entered he will be asked flight number if the flight number matches to any flight admin entered by the Admin, he can update/modify the flight, all the data will be entered again and conformed.

In Fourth Function "Delete Flight" Admin can delete the ticket, flight number will be asked first if it matches to any flight, that flight will be deleted and the data will be removed too.

If Admin entered 5, he will be returned to Main menu, if he entered any other digit, it will be considered.

```
=====
                        A D M I N   B L O C K !!
=====

          * * * * L O G I N * * * *

You have 3 chances to enter correct passowrd otherwise program will terminate
Only Admin can access this block!!
Enter Password : 12345

                        A C C E S S   G R A N T E D !   W E L C O M E !

1 - Add Flight
2 - View Passanger
3 - Update Flight
4 - Delete Flight
5 - EXIT

PLEASE ENTER YOUR OPTION:|
```

User:

After Admin functions, User functions will start where user can perform his task like book, update, delete, view ticket etc.

In first function " View Flight Schedule" user can check all the flight that are available, he can check and can book any of them.

In second function" Book Ticket" first total amount of ticket will be asked and then user will enter his personal data like name, email, phone number etc. after that a random ticket will be allotted to the user it will be confirmed if confirmed then data will be saved

In third function " Update Ticket" user have to enter his flight number in which he booked his ticket, if flight number matches user will reenter all of his data again and confirmed, and then will be saved.

In fourth function " View Ticket" user can view all his ticket he booked, if he updated any of his ticket then instead of pervious data updated data will be displayed.

In fifth function " Delete Ticket" user can delete his ticket he again have to enter his flight number if flight number matches ticket will be deleted and data will be removed from all side.

If user enter 6 as his choice program will be returned to main menu, any other input than that will be considered as wrong input.

```
=====
                        U S E R   B L O C K  !!
=====

1 - View Schedule
2 - Book Ticket
3 - Update Ticket
4 - View Ticket
5 - Delete Ticket
6 - EXIT

PLEASE ENTER YOUR OPTION:|
```

Survey:

In this section a survey will be performed by user 5 questions will be asked upon his experience with the airline he can answer in term of yes or no each yes mean a star, 4 and 5 stars will be considered as satisfactory and below that will be unsatisfactory, and user will give his suggestions to make thing better.

Input other then 3 will result in termination of the program and a thank you message will be displayed, and program will be terminated.

```
=====
                        C U S T O M E R   F E E D B A C K
=====

By a show of 1 to 5 stars, please review the performance of our Airline:
where each star means:
-          --> Worst
*          --> Disappointing
* *        --> Unsatisfactory
* * *      --> Somewhat Satisfactory
* * * *    --> Satisfactory
* * * * *  --> Excellent

Answer the following questions in yes or no:
```