**IMPLEMENTING THE CANCELLING OF TICKET LOGIC**

The next task in the project is to **cancel a booked ticket**. This task has 2 subtasks:

1. Accept the ticket number with all the validations applied and also allow the user to cancel the process in between

2.After the ticket no has been received , search it in the **allbookings.dat** file .

3. If ticket no is present , then cancel it and display the message **TICEKT NUMBER** <number> **SUCCESSFULLY CANCELLED!** otherwise print the message **SORRY!** **NO TICEKT BOOKED AGAINST THE TICKET NUMBER**<number>

We have divided the above requirements into 2 functions:

1. **int accept\_ticket\_no()** : This function will accept **ticket number** from the user with all validations applied. If the input is incorrect (like negative number) then it will display the message **Ticket number should be positive** and again ask the user to input **ticket number**. If the input is correct it will return the **ticket number** and if the user cancels the process in between it returns **0**.

2. **int cancel\_ticket(int)**: This function will accept a **ticket number** as argument search it in the file **allbookings.dat.** If the file is not present then it will display the message **NO BOOKINGS DONE YET** and **return -1** . If the ticket number is found it will delete it and **return 1** otherwise it will **return 0**

So before proceeding further make the following declarations in the header file **"rlyres.h"**

**int accept\_ticket\_no()** **;**

**int cancel\_ticket(int);**

**DESIGNING THE "accept\_ticket\_no()" FUNCTION IN THE FILE "rlyres.c"**

Same as before

**DESIGNING THE "cancel\_ticket()" FUNCTION IN THE FILE "rlyres.c"**

This function will search the file **allbookings.dat** for the ticekt number passed as argument and cancel it. If the file is not present then it will display the message **NO BOOKINGS DONE YET** and **return -1** . If the ticket number is found it will delete it and **return 1** otherwise it will **return 0**

Following is it's prototype:

**int cancel\_ticket(int ticket\_no)**

This function will do the following:

1. Open the file **allbookings.dat**

2.If the file is not present , it will display the message **No bookings done yet** and will return.

3. Open another file called **temp.dat**. This file will be used as a temporary copy of the file **allbookings.dat**

4. Then it will **read a record from the file allbookings.dat ,** match the ticket number with the argument passed and if the match is **not found** it will write the record in the file **temp.dat** .

5. If the match is found then it will set a variable **found** to 0 and that particular record will not be saved in the file **temp.dat**

6. After all the records have been read it will close both the files .

7. Then if **found** is **0** , the function will just **remove** the file **temp.dat** , otherwise if **found** is **1** then it will **remove** the file **allbookings.dat** and **rename** the file **temp.dat** to **allbookings.dat**.

8. Finally it will **return** the value of **found**

Following is it's code:

***int cancel\_ticket(int ticket\_no)***

***{***

***FILE \*fp1=fopen("d:\\myproject\\allbookings.dat","rb+");***

***if(fp1==NULL)***

***{***

***textcolor(LIGHTRED);***

***printf("\nNo bookings done yet");***

***return -1;***

***}***

***FILE \*fp2=fopen("d:\\myproject\\temp.dat","wb+");***

***Passenger pr;***

***int found=0;***

***while(fread(&pr,sizeof(pr),1,fp1)==1)***

***{***

***if(pr.ticketno!=ticket\_no)***

***{***

***fwrite(&pr,sizeof(pr),1,fp2);***

***}***

***else***

***{***

***found=1;***

***}***

***}***

***fclose(fp1);***

***fclose(fp2);***

***if(found==0)***

***{***

***remove("d:\\myproject\\temp.dat");***

***}***

***else***

***{***

***remove("d:\\myproject\\allbookings.dat");***

***rename("d:\\myproject\\temp.dat","d:\\myproject\\allbookings.dat");***

***}***

***return found;***

***}***

**UPDATING THE "main()" FUNCTION**

Now finally to get this module working we will have to change the **main()** function’s

**case 7:** in **switch** statement.

Here are the steps to be done in the function **main()**:

1. Call the on **accept\_ticket\_no()** function
2. Check whether the value returned by this function is **0** or not
3. If it is not 0 , then call the function cancel\_ticket( ) and check the value returned by this function

i) If it is **0** , then print the message “**Sorry! No tickets booked agains the ticket number <ticket number> ”**

ii) If it is **1** , then print the message **“Ticket no <ticket number>successfully cancelled"**

Here is the code for switch statement **case 7:** in **main()**:

***case 7:***

***clrscr();***

***ticket\_no=accept\_ticket\_no();***

***if(ticket\_no!=0)***

***{***

***result=cancel\_ticket(ticket\_no);***

***if(result==0)***

***{***

***textcolor(LIGHTRED);***

***printf("Sorry! No tickets booked against ticket no %d",ticket\_no);***

***}***

***else if(result==1)***

***{***

***textcolor(LIGHTGREEN);***

***printf("Ticket no %d successfully cancelled!",ticket\_no);***

***}***

***textcolor(WHITE);***

***printf("\n\nPress any key to go back to the main screen");***

***}***

***getch();***

***clrscr();***

***break;***