**IMPLEMENTING THE VIEWING OF TICKET LOGIC**

The next task in the project is to **view a booked ticket**. However this task is itself divided into following subtasks:

1. Accept the ticket number with all the validations applied

2.While accepting the ticket no , allow the user to cancel the process in between

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

4. If ticket no is present , then display it's details otherwise print the message **NO DETAILS OF THE TICKET FOUND** .

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 user cancels the process in between it returns **0**.

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**

2. **void view\_ticket(int)**: This function will accept a **ticket number** as argument and display it's details by searching in the file **allbookings.dat.** If **ticket number** is not found , it will display the message **No details of the ticket found.**

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

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

**void view\_ticket(int);**

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

This function will accept **ticket number** from the user and will return it if it is correct . if the user cancels the process in between it **returns 0**

Following is it's prototype:

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

This function will do the following:

1. Prompt the user to input **ticket number**.

2. Run a loop which does the following:

i) accept the input

ii)if the input received is 0 then move to bottom coordinate (1,25) of the screen using **gotoxy()**, **erase the previous message** , set the color to **LIGHTRED** using **textcolor()** ,print the message "**Cancelling Input. . .**" , reset the color to **YELLOW** and return **0**.

***printf("Enter ticket no:");***

***int valid;***

***int ticket\_no;***

***do***

***{***

***valid=1;***

***scanf("%d",&ticket\_no);***

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

***{***

***textcolor(LIGHTRED);***

***gotoxy(1,25);***

***printf("\t\t\t\t\t\t\t");***

***gotoxy(1,25);***

***printf("Cancelling Input. . .!");***

***textcolor(YELLOW);***

***return 0;***

***}***

iii) If the ticket number is negative , then move to bottom coordinate (1,25) of the screen using **gotoxy()**, , set the color to **LIGHTRED** using **textcolor()** ,print the message " **Error! Ticket number should be positive**" , move back to coordinate (11,1) , erase the entered age and reset the color to **YELLOW** .

iv) Repeat this until input received is positive.

v) After the loop is over , return the **ticket number**

***if(ticket\_no<0)***

***{***

***textcolor(LIGHTRED);***

***gotoxy(1,25);***

***printf("Error! Ticket number should be positive");***

***valid=0;***

***getch();***

***gotoxy(11,1);***

***printf("\t\t\t\t\t\t\t");***

***gotoxy(11,1);***

***textcolor(YELLOW);***

***}***

***} while(valid==0);***

***return ticket\_no;***

So for all the above steps the combined code will be:

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

***{***

***printf("Enter ticket no:");***

***int valid;***

***int ticket\_no;***

***do***

***{***

***valid=1;***

***scanf("%d",&ticket\_no);***

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

***{***

***textcolor(LIGHTRED);***

***gotoxy(1,25);***

***printf("\t\t\t\t\t\t\t");***

***gotoxy(1,25);***

***printf("Cancelling Input. . .!");***

***textcolor(YELLOW);***

***return 0;***

***}***

***if(ticket\_no<0)***

***{***

***textcolor(LIGHTRED);***

***gotoxy(1,25);***

***printf("Error! Ticket number should be positive");***

***valid=0;***

***getch();***

***gotoxy(11,1);***

***printf("\t\t\t\t\t\t\t");***

***gotoxy(11,1);***

***textcolor(YELLOW);***

***}***

***} while(valid==0);***

***return ticket\_no;***

***}***

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

This function will search the file **allbookings.dat** and display details of the ticket whose **ticket number** is passed as argument to it. If the ticket number is not found , it will display the message **No details of the ticket found.**

Following is it's prototype:

**void view\_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. Otherwise it will **read a record from the file ,** match the ticket number with the argument passed and if the match is found it will display the details

4. Finally if all the records have been read and **ticket number** is not found then it will display the message **No details of the ticket found**, close the file and return.

Following is it's code:

***void view\_ticket(int ticket\_no)***

***{***

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

***if(fp==NULL)***

***{***

***textcolor(LIGHTRED);***

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

***return;***

***}***

***Passenger pr;***

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

***{***

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

***{***

***printf("\nNAME: %s\nGENDER: %c\nTRAIN NO: %s\nCLASS: %c\nADDRRESS: %s\nAGE: %d\nMOBILE NO: %s\nTICKET NO: %d\n",pr.p\_name,pr.gender,pr.train\_no,pr.p\_class,pr.address,pr.age,pr.mob\_no,pr.ticketno);***

***printf("\n\n");***

***fclose(fp);***

***return;***

***}***

***}***

***textcolor(LIGHTRED);***

***printf("\nNo details of ticket no %d found!",ticket\_no);***

***fclose(fp);***

***}***

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

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

**case 3:** 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 **view\_ticket()** passing it the ticket number as argument

Here is the code for switch statement case 2: in main():

***case 3:***

***clrscr();***

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

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

***view\_ticket(ticket\_no);***

***textcolor(WHITE);***

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

***getch();***

***clrscr();***

***break;***