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| --- | --- | --- |
|  | **AIRLINE** **RESERVATION** |  |
|  | **SYSTEM** |  |
| C PROGRAMMING PROJECT  SRM AP AIRLINE RESERVATION 1 | | |

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SRM AP AIRLINE RESERVATION 2

**Project** **Title** : *SRMAP* *AIRLINE* *RESERVATION* *SYSTEM*

**Aim** : The aim of project is to Book airline tickets through C Programming.

**Group** **details** : Saloni Bangar Saithej Singhu

Sunil Reddy Yellaie

AP20110010385 AP20110010388 AP20110010423

**Objective** **:** Purpose of this project is to make Automated Airline Reservation System through C Programming.

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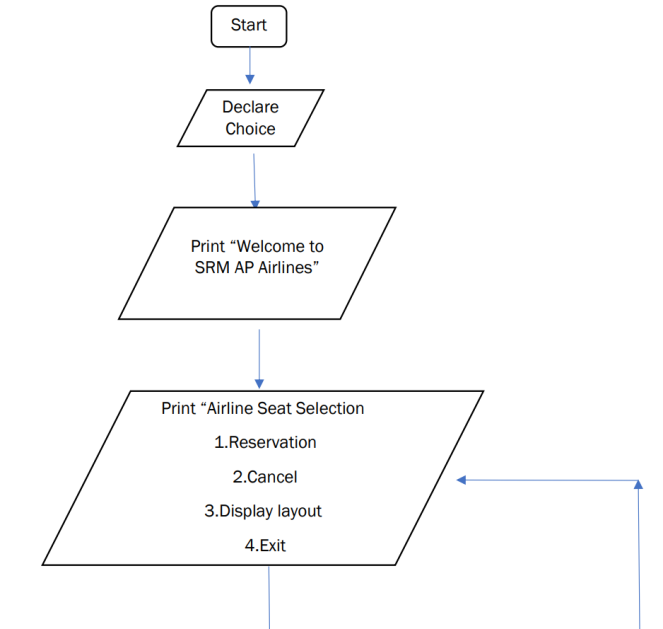
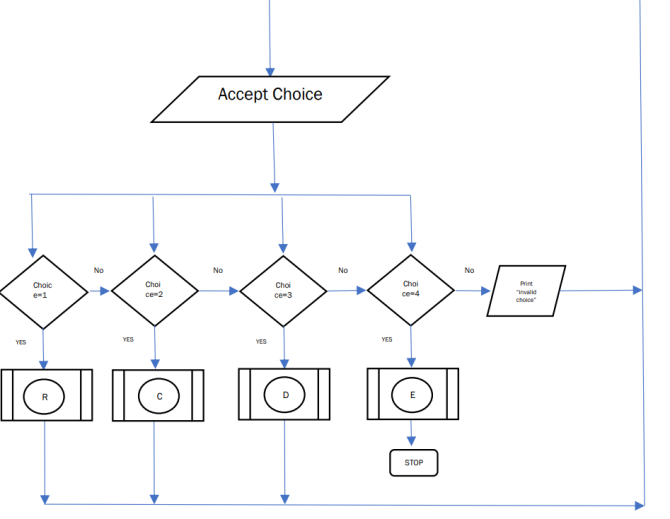
**Technical** **Requirement** **:** We need a software which can compile and run C programs. Software we required to complete this project is Dev-C++.

**About** **Project** : In recent times Air Travel is one of major transport systems. By keeping that in mind we developed a simple but effective Airline ticket reservation Project in which user needs to login by entering his/her Passport number, Name ,and Mobile number. And after logging in we can choose 4 options as Reservation , Cancel , Show records , Exit. We can book tickets in reservation section and we can cancel booked tickets and also displays our booked tickets from its records.

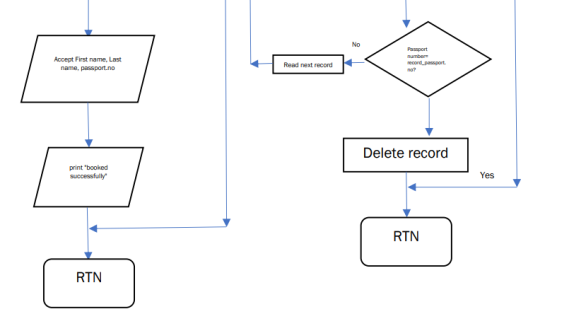
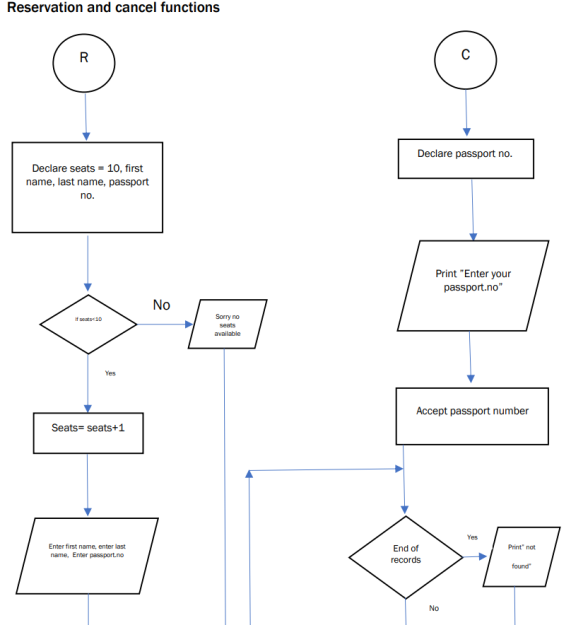
**Project** **Status** : We successfully completed the project by dividing our work into three as algorithm designing, code building and finally code refining .We hope we made it perfect with no errors and flaws.

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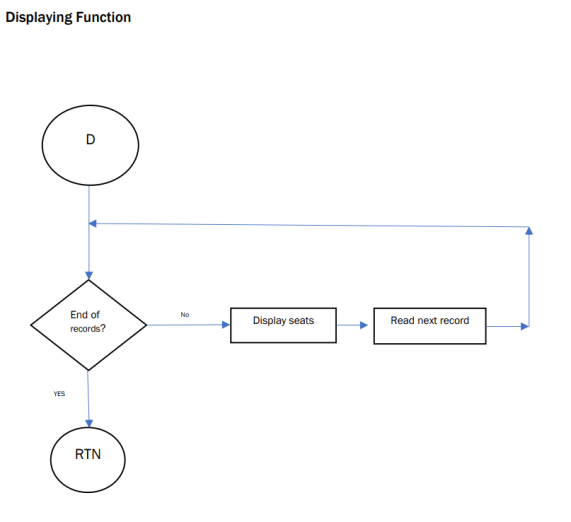
**Project** **Algorithm** **/** **Flowchart** **:**



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**C** **Source** **Code** **:**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

#include<stdio.h> #include<stdlib.h> #include<conio.h> #include<string.h> #include<Windows.h>

struct SRMAP\_airline {

char passport[6]; char name[15]; int seat\_num; char email[15];

struct SRMAP\_airline\*following; }

\*begin,\*stream;

struct SRMAP\_airline\*dummy;

void main() {

void reserve(int x),cancel(),display(),savefile(); int choice;

begin=stream=NULL; int num=1;

do {

system("cls"); system("color B1");

printf("\n\n\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

"); printf("\n\t\t Welcome to SRMAP's Airline System

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\*\*\*\*printf("\n\n\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* printf("\n\n\t\t1.Reservation"); printf("\n\n\t\t2.Cancel");

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

printf("\n\n\t\t3.DISPLAY RECORDS"); printf("\n\n\t\t4.EXIT");

printf("\n\n\t\tChoose your option from 1 to 4:- "); scanf(" %d",&choice);fflush(stdin);

system("cls"); switch(choice) {

case 1: {

reserve(num); num++; break;

} case 2:

{

cancel(); break;

} case 3:

{

display(); break;

} case 4:

{

savefile(); break;

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}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*srmap

begin=stream=(struct

default:

printf("\n\n\tSORRY INVALID CHOICE!"); printf("\n\n\tPLEASE CHOOSE FROM 1-4");

} getch();

}while(choice!=4); }

void details() {

printf("\n\tEnter your passport number:"); gets(stream->passport);fflush(stdin); printf("\n\tEnter your name:"); gets(stream->name);fflush(stdin); printf("\n\tEnter your email address:"); gets(stream->email);fflush(stdin);

}

airlines\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void reserve(int x) {

system("color 75"); stream=begin;

if (begin==NULL) {

//first user

SRMAP\_airline\*)malloc(sizeof(struct SRMAP\_airline)); details();

stream->following=NULL; printf("\n\tSeat booking successful!");

printf("\n\tyour seat number is:SeatA-%d",x); stream->seat\_num=x;

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return; }

stream->following=(struct

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*srmap

else if(x>15)//FULLSEATS {

printf("\n\t\tSeatFull."); return ;

}

else {

//nextuser

while(stream->following) stream=stream->following;

SRMAP\_airline\*)malloc(sizeof(struct SRMAP\_airline)); stream=stream->following;

details();

stream->following=NULL; printf("\n\tSeat booking succesful!");

printf("\n\tyour seat number is:SeatA-%d",x); stream->seat\_num=x;

return; }

}

airlines\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* void savefile()

{

system("color C0"); FILE\*fpointer=fopen("SRMAPrecords","w"); if(!fpointer)

{

printf("\nError in opening file!"); return;

Sleep(800);

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}

);//SRMAP RECORDS

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*srm ap

=================\*++");

stream=begin; while(stream) {

fprintf(fpointer,"%-6s",stream->passport); fprintf(fpointer,"%-15s",stream->name); fprintf(fpointer,"%-15s",stream->email); stream=stream->following;

}

file" printf("\n\n\n\n\n\n\t\t\tDetails have been saved to a printf("\n\n\n\t\t\tTHANKS FOR VISITING US :)"); fclose(fpointer);

}

airlines\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void display() {

system("color F4"); stream=begin; while(stream)

{

printf("\n\n\nPassport Number:%-6s",stream->passport); printf("\n name:%-15s",stream->name);

printf("\n email address:%-15s",stream->email); printf("\n Seat Number:A-%d",stream->seat\_num);

=== printf("\n\n++\*=================================

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stream=stream->following; }

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*srmap

}

airlines\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void cancel() {

system("color E6"); stream=begin; system("cls"); char passport[6];

printf("\n\nEnter passort number to delete record?:"); gets(passport);fflush(stdin);

if(strcmp(begin->passport,passport)==0) {

dummy=begin; begin=begin->following; free(dummy);

printf("booking has been deleted"); Sleep(800);

return; }

while(stream->following) {

if(strcmp(stream->following->passport,passport)==0) {

dummy=stream->following;

stream->following=stream->following->following; free(dummy);

printf("has been deleted"); getch();

Sleep(800);

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return; }

port");

airlines\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

stream=stream->following; }

pass printf("passport number is wrong please check your }

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*srmap

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**End** **User** : As our project is Airline reservation system end user of this project will be Airline’s customers who are willing to purchase Airline tickets for their Destinations.

**Conclusion**: The Airline reservation system is designed for users to reserve a seat , cancel, Displays and exit the system. A formula is included in the function to calculate the seats are reserved.

Pseudocode is written for some important codes . A few flowcharts are also created for explaining the process of the Airline reservation system. From this assignment ,We have learnt to implement a few C concepts in the future projects such as functions , switch statement and do…while statement, arrays ,pointers and structures in the program.

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THANK YOU

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