FLIGHT TICKET BOOKING SYSTEM



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INTRODUCTION:

Flight reservation system is very important for us. In this project we have created a customer friendly flight booking system which can perform various tasks of booking flights, cancellation of flight bookings, getting flight details etc.

### OVERVIEW OF THE PROJECT

Our project mainly aims to design a portal for the companies which manages different national and international flights and their maintenance on daily basis. The project includes handling requests for booking, cancelling a flight, show details of already booked flight, billing details, Etc.

### So, for above tasks we present Entity Relationship model of our project. The model shows all the relationship between different blocks, management requests, maintenance expanses etc.

### To manage all the transactions, we proposed herewith a solution which will take care all the necessary transactions. This application will help to keep a record electronically and saves a lot of time.

OBJECTIVES

1. Our first objective is to make this system customer friendly.

2. To show orders of various flights as per the requirement of the customer.

3. To show correct flight details, timings of departure and arrival.

4. To furnish all the important details regarding

Payment mode, bookings etc. for customer.

UML DIAGRAM

0Diagram

Description automatically generated

CODE:

#include <iostream>

#include<fstream>

#include<string.h>

using namespace std;

int glob=0; //global variables

int global=10;

class Domestic\_Booking

{

protected:

int PNR\_NO;

char F\_d\_name[10],tod[50],toa[50];

int tojd;

int choice,src,dest;

public:

int pnr()

{

glob++;

PNR\_NO= glob;

}

int D\_Flight\_details()

{

cout<<"Enter the Date of journey."<<" Please enter a valid date (DDMMYY)."<<endl;

cin>>tojd;

cout<<"1.Delhi(1)\t\t2.Mumbai(2)\t\t3.Bangalore(3)\t\t4.Chennai(4)"<<endl;

cout<<"\nEnter Your Destination";

cin>>dest;

cout<<"\nEnter source";

cin>>src;

if(src==1&&dest==2||src==2&&dest==1)

{

cout<<"\t\t\t\t\t\*\*\*\*\*Flights found\*\*\*\*\t\t\t\t\t\t"<<endl;

cout<<"\nAirline|\t\tDeparture|\t\tArrival|\t\tPrice|\t\tCategory"<<endl;

cout<<"\nVistara|\t\t05:30 a.m.|\t\t07:30 a.m.|\t\t7,000Rs|\t\tRefundable"<<endl;

cout<<"\nAir India|\t\t11:30 a.m.|\t\t01:30 p.m.|\t\t14,000Rs|\t\tRefundable"<<endl;

cout<<"\nIndigo|\t\t\t09:30 p.m.|\t\t11:30 p.m.|\t\t10,000Rs|\t\tRefundable"<<endl;

cout<<"\nSpice Jet|\t\t08:30 p.m.|\t\t10:30 p.m.|\t\t17,000Rs|\t\tRefundable"<<endl;

}

else if(src==1&&dest==3||src==3&&dest==1)

{

cout<<"\t\t\t\t\t\*\*\*\*\*Flights found\*\*\*\*\t\t\t\t\t\t"<<endl;

cout<<"\nAirline|\t\tDeparture|\t\tArrival|\t\tPrice|\t\tCategory"<<endl;

cout<<"\nVistara|\t\t05:30 a.m.|\t\t07:30 a.m.|\t\t17,000Rs|\t\tRefundable"<<endl;

cout<<"\nAir India|\t\t11:30 a.m.|\t\t01:30 p.m.|\t\t24,000Rs|\t\tRefundable"<<endl;

cout<<"\nIndigo|\t\t\t09:30 p.m.|\t\t11:30 p.m.|\t\t11,000Rs|\t\tRefundable"<<endl;

cout<<"\nSpice Jet|\t\t08:30 p.m.|\t\t10:30 p.m.|\t\t18,000Rs|\t\tRefundable"<<endl;

}

else if(src==1&&dest==4||src==4&&dest==1)

{

cout<<"\t\t\t\t\t\*\*\*\*\*Flights found\*\*\*\*\t\t\t\t\t\t"<<endl;

cout<<"\nAirline|\t\tDeparture|\t\tArrival|\t\tPrice|\t\tCategory"<<endl;

cout<<"\nVistara|\t\t05:30 a.m.|\t\t07:30 a.m.|\t\t17,000Rs|\t\tRefundable"<<endl;

cout<<"\nAir India|\t\t11:30 a.m.|\t\t01:30 p.m.|\t\t14,000Rs|\t\tRefundable"<<endl;

cout<<"\nIndigo|\t\t\t09:30 p.m.|\t\t11:30 p.m.|\t\t12,000Rs|\t\tRefundable"<<endl;

cout<<"\nSpice Jet|\t\t08:30 p.m.|\t\t10:30 p.m.|\t\t15,000Rs|\t\tRefundable"<<endl;

}

else if(src==2&&dest==3||src==3&&dest==2)

{

cout<<"\t\t\t\t\t\*\*\*\*\*Flights found\*\*\*\*\t\t\t\t\t\t"<<endl;

cout<<"\nAirline|\t\tDeparture|\t\tArrival|\t\tPrice|\t\tCategory"<<endl;

cout<<"\nVistara|\t\t05:30 a.m.|\t\t07:30 a.m.|\t\t14,000Rs|\t\tRefundable"<<endl;

cout<<"\nAir India|\t\t11:30 a.m.|\t\t01:30 p.m.|\t\t10,000Rs|\t\tRefundable"<<endl;

cout<<"\nIndigo|\t\t\t09:30 p.m.|\t\t11:30 p.m.|\t\t12,000Rs|\t\tRefundable"<<endl;

cout<<"\nSpice Jet|\t\t08:30 p.m.|\t\t10:30 p.m.|\t\t11,000Rs|\t\tRefundable"<<endl;

}

else if(src==2&&dest==4||src==4&&dest==2)

{ cout<<"\t\t\t\t\t\*\*\*\*\*Flights found\*\*\*\*\t\t\t\t\t\t"<<endl;

cout<<"\nAirline|\t\tDeparture|\t\tArrival|\t\tPrice|\t\tCategory"<<endl;

cout<<"\nVistara|\t\t05:30 a.m.|\t\t07:30 a.m.|\t\t24,000Rs|\t\tRefundable"<<endl;

cout<<"\nAir India|\t\t11:30 a.m.|\t\t01:30 p.m.|\t\t11,000Rs|\t\tRefundable"<<endl;

cout<<"\nIndigo|\t\t\t09:30 p.m.|\t\t11:30 p.m.|\t\t13,000Rs|\t\tRefundable"<<endl;

cout<<"\nSpice Jet|\t\t08:30 p.m.|\t\t10:30 p.m.|\t\t14,000Rs|\t\tRefundable"<<endl;

}

else if(src==3&&dest==4||src==4&&dest==3)

{ cout<<"\t\t\t\t\t\*\*\*\*\*Flights found\*\*\*\*\t\t\t\t\t\t"<<endl;

cout<<"\nAirline|\t\tDeparture|\t\tArrival|\t\tPrice|\t\tCategory"<<endl;

cout<<"\nVistara|\t\t05:30 a.m.|\t\t07:30 a.m.|\t\t19,000Rs|\t\tRefundable"<<endl;

cout<<"\nAir India|\t\t11:30 a.m.|\t\t01:30 p.m.|\t\t18,000Rs|\t\tRefundable"<<endl;

cout<<"\nIndigo|\t\t\t09:30 p.m.|\t\t11:30 p.m.|\t\t16,000Rs|\t\tRefundable"<<endl;

cout<<"\nSpice Jet|\t\t08:30 p.m.|\t\t10:30 p.m.|\t\t13,000Rs|\t\tRefundable"<<endl;}

else if(src==dest)

{

cout<<"Source and destination cannot be same,"<<"\n Please try again"<<endl;

return D\_Flight\_details();

}

else

{ cout<<"\nWrong input entered ";

cout<<"\nPlease try again";

return D\_Flight\_details();

}

}

int select\_Flight()

{

int choice;

cout<<"\nEnter choice"<<endl;

cin>>choice;

if(choice==1)

{

cout<<"Flight selected: Vistara"<<endl;

strcpy( F\_d\_name,"Vistara");

cout<<"Departure time :"<<"05:30 am"<<endl;

cout<<"Arrival time :"<<"07:30 am"<<endl;

strcpy(tod,"05:30 am") ;

strcpy(toa,"07:30 am") ;

}

else if(choice==2)

{ cout<<"Flight selected: Air India"<<endl;

strcpy( F\_d\_name,"Air India");

cout<<"Departure time :"<<"11:30 am"<<endl;

cout<<"Arrival time :"<<"01:30 pm"<<endl;

strcpy(tod,"11:30 am ") ;

strcpy(toa,"01:30 pm ") ;

}

else if(choice==3)

{ cout<<"Flight selected: Indigo"<<endl;

strcpy( F\_d\_name,"Indigo");

cout<<"Departure time :"<<"09:30 pm"<<endl;

cout<<"Arrival time :"<<"11:30 pm"<<endl;

strcpy(tod,"09:30 pm ") ;

strcpy(toa,"11:30 pm ") ;

}

else if(choice==4)

{ cout<<"Flight selected: Spice jet"<<endl;

strcpy( F\_d\_name,"Spice jet");

cout<<"Departure time :"<<"08:30 pm"<<endl;

cout<<"Arrival time :"<<"10:30 pm"<<endl;

strcpy(tod,"08:30 pm ") ;

strcpy(toa,"10:30 pm ") ;

}

else

{

return select\_Flight();

}

}

};

class Int\_booking

{

protected:

int PNR\_I;

int SRC\_I,DES\_I,CHOICE\_I,DOJ\_I;

char Flight\_I\_Name[20],tod\_i[50],toa\_i[50];

public:

void I\_PNR()

{

global++;

PNR\_I=global;

}

int Int\_Flight\_Details()

{

cout<<"Enter the date of journey(DDMMYY) : "<<" Please enter a valid date (DDMMYY)."<<endl;

cin>>DOJ\_I;

cout<<"1.London(1)\t\t2.Los Angeles(2)\t\t3.Sydney(3)\t\t4.Dubai(4)\t\t5.Toronto(5)"<<endl;

cout<<"\nEnter Source : ";

cin>>SRC\_I;

cout<<"\nEnter Your Destination : ";

cin>>DES\_I;

cout<<"\t\t\t\t\t\*\*\*\*\*Flights found\*\*\*\*\t\t\t\t\t\t"<<endl;

if((SRC\_I==1 && DES\_I==2) || (SRC\_I==2 && DES\_I==1))

{

cout << "Airline:\t\t\tDeparture:\t\tArrival:\t\tPrice:\t\tCategory:\n";

cout << "\1.Qatar Airlines(1)\t\t10:00 am\t\t09:00 pm\t\tRs.71000\tRefundable\n";

cout << "\2.Cathay Pacific Airways(2)\t06:00 am\t\t05:30 pm\t\tRs.69500\tRefundable\n";

cout << "\3.Emirates(3)\t\t\t03:00 pm\t\t02:30 am\t\tRs.72000\tRefundable\n";

}

else if((SRC\_I==1 && DES\_I==3) || (SRC\_I==3 && DES\_I==1))

{

cout << "Airline:\t\t\tDeparture:\t\tArrival:\t\tPrice:\t\tCategory:\n";

cout << "\1.Qatar Airlines(1)\t\t10:00 am\t\t09:00 pm\t\tRs.71000\tRefundable\n";

cout << "\2.Cathay Pacific Airways(2)\t06:00 am\t\t05:30 pm\t\tRs.69500\tRefundable\n";

cout << "\3.Emirates(3)\t\t\t03:00 pm\t\t02:30 am\t\tRs.72000\tRefundable\n";

}

else if((SRC\_I==1 && DES\_I==4) || (SRC\_I==4 || DES\_I==1))

{

cout << "Airline:\t\t\tDeparture:\t\tArrival:\t\tPrice:\t\tCategory:\n";

cout << "\1.Qatar Airlines(1)\t\t10:00 am\t\t09:00 pm\t\tRs.71000\tRefundable\n";

cout << "\2.Cathay Pacific Airways(2)\t06:00 am\t\t05:30 pm\t\tRs.69500\tRefundable\n";

cout << "\3.Emirates(3)\t\t\t03:00 pm\t\t02:30 am\t\tRs.72000\tRefundable\n";

}

else if((SRC\_I==1 && DES\_I==5) || (SRC\_I==5 && DES\_I==1))//condition

{

cout << "Airline:\t\t\tDeparture:\t\tArrival:\t\tPrice:\t\tCategory:\n";

cout << "\1.Qatar Airlines(1)\t\t10:00 am\t\t09:00 pm\t\tRs.71000\tRefundable\n";

cout << "\2.Cathay Pacific Airways(2)\t06:00 am\t\t05:30 pm\t\tRs.69500\tRefundable\n";

cout << "\3.Emirates(3)\t\t\t03:00 pm\t\t02:30 am\t\tRs.72000\tRefundable\n";

}

else if((SRC\_I==2 && DES\_I==3) || (SRC\_I==3 && DES\_I==2))

{

cout << "Airline:\t\t\tDeparture:\t\tArrival:\t\tPrice:\t\tCategory:\n";

cout << "\1.Qatar Airlines(1)\t\t10:00 am\t\t09:00 pm\t\tRs.71000\tRefundable\n";

cout << "\2.Cathay Pacific Airways(2)\t06:00 am\t\t05:30 pm\t\tRs.69500\tRefundable\n";

cout << "\3.Emirates(3)\t\t\t03:00 pm\t\t02:30 am\t\tRs.72000\tRefundable\n";

}

else if((SRC\_I==2 && DES\_I==4) || (SRC\_I==4 && DES\_I==2))

{

cout << "Airline:\t\t\tDeparture:\t\tArrival:\t\tPrice:\t\tCategory:\n";

cout << "\1.Qatar Airlines(1)\t\t10:00 am\t\t09:00 pm\t\tRs.71000\tRefundable\n";

cout << "\2.Cathay Pacific Airways(2)\t06:00 am\t\t05:30 pm\t\tRs.69500\tRefundable\n";

cout << "\3.Emirates(3)\t\t\t03:00 pm\t\t02:30 am\t\tRs.72000\tRefundable\n";

}

else if((SRC\_I==2 && DES\_I==5) || (SRC\_I==5 && DES\_I==2))

{

cout << "Airline:\t\t\tDeparture:\t\tArrival:\t\tPrice:\t\tCategory:\n";

cout << "\1.Qatar Airlines(1)\t\t10:00 am\t\t09:00 pm\t\tRs.71000\tRefundable\n";

cout << "\2.Cathay Pacific Airways(2)\t06:00 am\t\t05:30 pm\t\tRs.69500\tRefundable\n";

cout << "\3.Emirates(3)\t\t\t03:00 pm\t\t02:30 am\t\tRs.72000\tRefundable\n";

}

else if((SRC\_I==3 && DES\_I==4) || (SRC\_I==4 && DES\_I==3))

{

cout << "Airline:\t\t\tDeparture:\t\tArrival:\t\tPrice:\t\tCategory:\n";

cout << "\1.Qatar Airlines(1)\t\t10:00 am\t\t09:00 pm\t\tRs.71000\tRefundable\n";

cout << "\2.Cathay Pacific Airways(2)\t06:00 am\t\t05:30 pm\t\tRs.69500\tRefundable\n";

cout << "\3.Emirates(3)\t\t\t03:00 pm\t\t02:30 am\t\tRs.72000\tRefundable\n";

}

else if((SRC\_I==3 && DES\_I==5) || (SRC\_I==5 && DES\_I==3))

{

cout << "Airline:\t\t\tDeparture:\t\tArrival:\t\tPrice:\t\tCategory:\n";

cout << "\1.Qatar Airlines(1)\t\t10:00 am\t\t09:00 pm\t\tRs.71000\tRefundable\n";

cout << "\2.Cathay Pacific Airways(2)\t06:00 am\t\t05:30 pm\t\tRs.69500\tRefundable\n";

cout << "\3.Emirates(3)\t\t\t03:00 pm\t\t02:30 am\t\tRs.72000\tRefundable\n";

}

else if((SRC\_I==4 && DES\_I==5) || (SRC\_I==5 && DES\_I==4))

{

cout << "Airline:\t\t\tDeparture:\t\tArrival:\t\tPrice:\t\tCategory:\n";

cout << "\1.Qatar Airlines(1)\t\t10:00 am\t\t09:00 pm\t\tRs.71000\tRefundable\n";

cout << "\2.Cathay Pacific Airways(2)\t06:00 am\t\t05:30 pm\t\tRs.69500\tRefundable\n";

cout << "\3.Emirates(3)\t\t\t03:00 pm\t\t02:30 am\t\tRs.72000\tRefundable\n";

}

else if(SRC\_I==DES\_I)

{

cout << "wrong input entered.\nTry again\n\n\n"<< endl;

return Int\_Flight\_Details();

}

else

{

cout << "Wrong input entered.\nTry again\n\n\n";

return Int\_Flight\_Details();

}

}

int Select\_Flight()

{

int choice;

cout<<"\nEnter choice"<<endl;

cin>>choice;

if(choice==1)

{

cout<<"Flight selected: Qatar Airlines"<<endl;

strcpy( Flight\_I\_Name,"Qatar Airlines");

cout<<"Departure time :"<<"10:00 am"<<endl;

cout<<"Arrival time :"<<"09:00 pm"<<endl;

strcpy(tod\_i,"10:00 am") ;

strcpy(toa\_i,"09:00 pm") ;

}

else if(choice==2)

{ cout<<"Flight selected: Cathay Pacific Airways"<<endl;

strcpy( Flight\_I\_Name,"Cathay Pacific Airways");

cout<<"Departure time :"<<"06:00 am"<<endl;

cout<<"Arrival time :"<<"05:30 pm"<<endl;

strcpy(tod\_i,"06:00 am") ;

strcpy(toa\_i,"05:30 pm") ;

}

else if(choice==3)

{ cout<<"Flight selected: Emirates"<<endl;

strcpy( Flight\_I\_Name,"Emirates");

cout<<"Departure time :"<<"03:00 pm"<<endl;

cout<<"Arrival time :"<<"02:30 am"<<endl;

strcpy(tod\_i,"03:00 pm") ;

strcpy(toa\_i,"02:30 am") ;

}

else

{

return Select\_Flight();

}

}

};

class passenger: public Domestic\_Booking,public Int\_booking//class passenger publicly inherited from class d\_booking and i\_booking

{

protected://protected members

char f\_name[20],l\_name[20],email[50];

int age,gender;

long int c\_no;

public://public member functions

void p\_detail(int x)//function declaration and definition

{ if(x==1)//if else for domestic and international booking selection

{ D\_Flight\_details();//function call

select\_Flight();//function call

}

else

{ Int\_Flight\_Details();//function call1353

Select\_Flight();//function call

}

cout << "\n\n\nEnter passenger details";

cout << "\nFirst Name:";

cin >> f\_name;

cout << "Last Name:";

cin >> l\_name;

}

int gender\_check()//to check gender input as valid

{

cout << "\nGender:\nMale-press:1::\nFemale-press:2::";

cin >> gender;

if(gender>2)//condition

{

cout << "\n\nWrong input entered.\nTry again\n\n" << endl;

return gender\_check();//function call

}

}

void more\_details()//to take more details of the passenger

{

cout << "Age:";

cin >> age;

cout << "Email Id:";

cin >> email;

cout << "Contact no.(6 digits):";

cin >> c\_no;

cout << "\n\nDetails Entered:\n";

cout << "Name:" << f\_name << " " << l\_name << endl;

cout << "Gender:" << gender << endl; //displaying details

cout << "Age:" << age << endl;

cout << "Email id:" << email << endl;

cout << "Contact No.:" << c\_no << endl;

}

int getpnr()//function to get pnr for domestic booking

{

return PNR\_NO;

}

int getpnri()//function to get pnr for international booking

{

return PNR\_I;

}

void disp()//function to display details for domestic booking

{

cout<<"PNR:" << PNR\_NO << endl;

cout<<"Flight:" << F\_d\_name << endl;

cout<<"Name:" << f\_name << " " << l\_name << endl;

cout<<"DOJ:" << tojd << endl;

cout<<"Departure Time:" << tod << endl;

cout<<"Arrival Time:" << toa;

}

void dispi()//function to display details for international booking

{

cout<<"PNR:" << PNR\_I << endl;

cout<<"Flight:" << Flight\_I\_Name << endl;

cout<<"Name:" << f\_name << " " << l\_name << endl;

cout<<"DOJ:" << DOJ\_I << endl;

cout<<"Departure Time:" << tod\_i << endl;

cout<<"Arrival Time:" << toa\_i;

}

};

class payment

{

protected:

long int card,user\_id;

int choice1,bank,date,cvv;

char password[10], upi\_id[20];

public:

void pay\_detail()

{ cout << "\n\n\nMode Of Payment\n";

cout << "\n\1.Debit Card(1) \n\2.Credit Card(2) \n\3.Net Banking(3) \n\4.UPI Transfer(4)\n";

cout << "\n\nEnter your choice";

cin >> choice1;

switch(choice1)

{

case 1:

cout << "\nEnter card no.:";

cin >> card;

cout << "\nEnter expiry date:";

cin >> date;

cout << "\nEnter CVV no.:";

cin >> cvv;

cout << "\nTransaction Successful\n";

break;

case 2:

cout << "\nEnter card no.:";

cin >> card;

cout << "\nEnter expiry date:";

cin >> date;

cout << "\nEnter password:";

cin >> password;

cout << "\nTransaction Successful\n";

break;

case 3:

cout << "Banks Available: \1.State Bank Of India(1) \2.ICICI Bank(2) \3.Standard Chartered Bank(3) \4.HDFC Bank(4) \5.Others(5)";

cout << "\nSelect your bank:";

cin >> bank;

cout << "\nYou have selected:" << bank;

cout << "\nEnter user\_id:";

cin >> user\_id;

cout << "\nEnter password:";

cin >> password;

cout << "\nTransaction Successful\n";

break;

case 4:

cout<< "Enter UPI ID:";

cin>> upi\_id;

cout<< "\nApprove at your UPI Portal";

cout<< "\nTransanction Successful\n";

break;

default:

cout << "\nWrong input entered.\nTry again\n\n";

return pay\_detail();

}

}

};

void createfile(passenger p)//file creation for domestic booking

{ ofstream fout("domestic.txt",ios::binary|ios::app);

fout.write((char\*)&p,sizeof(p));//writing to file

fout.close();//closing file

}

void cancelticket(int x)//function to cancel ticket

{ passenger p;

int f=0;

ifstream fin("domestic.txt",ios::binary|ios::app);//for reading file

ofstream fout("domestic1.txt",ios::binary|ios::app);//for writing to a new file

fin.read((char \*)&p,sizeof(p));//reading file

while(fin)

{

if(p.getpnr()!=x)//checking pnr

fout.write((char \*)&p,sizeof(p));//writing to file

else

{

p.disp();//display details

cout<<"\nYour Above ticket is being canceled:\n" << "Amount refunded: Rs 1000\n";

f++;//incrementing f if pnr found

}

fin.read((char \*)&p,sizeof(p));//reading another record from file

}

if(f==0)//if f==0,pnr not found

cout<<"Ticket not found\n";

fout.close();//closing file

fin.close();//closing file

remove("domestic.txt");//deleting old file

rename("domestic1.txt","domestic.txt");//renaming new file

}

void checkticket(int x)//function to check pnr or ticket

{ passenger p;

int f=0;

ifstream fin("domestic.txt",ios::binary);//opening file

fin.read((char \*)&p,sizeof(p));//reading file

while(fin)

{

if(p.getpnr()==x)//checking pnr

{p.disp();//display details

cout<<"\nYour ticket"<<endl;

f++;//incrementing f if onr found

break;

}

fin.read((char \*)&p,sizeof(p));//reading another record from the same file

}

fin.close();//closing file

if(f==0)//if f==0, pnr not found

cout<<"Ticket not found"<<endl;

}

void createfilei(passenger p)//opening a file for international booking

{ ofstream fout("international.txt",ios::binary|ios::app);

fout.write((char\*)&p,sizeof(p));//writing to file

fout.close();//closing file

}

void cancelticketi(int x)//function to cancel ticket

{ passenger p;

int f=0;

ifstream fin("international.txt",ios::binary|ios::app);//opening file

ofstream fout("international1.txt",ios::binary|ios::app);//writing to a new file

fin.read((char \*)&p,sizeof(p));//reading old file

while(fin)

{

if(p.getpnri()!=x)//checking pnr

fout.write((char \*)&p,sizeof(p));//writing to new file;

else

{

p.dispi();//display details

cout<<"Your Above ticket is being deleted:\n"<<"Amount refunded: Rs 1000\n";

f++;//incrementing f if pnr found

}

fin.read((char \*)&p,sizeof(p));//reading another record from old file

}

if(f==0)//if f==0,pnr not found

cout<<"\nTicket not found\n";

fout.close();//closing file

fin.close();//closing file

remove("international.txt");//deleting old file

rename("international1.txt","international.txt");//renaming new file

}

void checkticketi(int x)//function to check pnr or ticket

{ passenger p;

int f=0;

ifstream fin("international.txt",ios::binary);//opening file

fin.read((char \*)&p,sizeof(p));//reading file

while(fin)

{

if(p.getpnri()==x)//checking pnr

{p.dispi();//display details

cout<<"\nYour ticket"<<endl;

f++;//incrementing f if pnr found

break;

}

fin.read((char \*)&p,sizeof(p));//reading another record from the file

}

fin.close();//closing file

if(f==0)//if f==0, pnr not found

cout<<"Ticket not found"<<endl;

}

int main()//main function

{

class Domestic\_Booking d1;//object for class d\_booking

class Int\_booking i1;//object for class i\_booking

class passenger p1;//object for class passenger

class payment p2;//object for class payment

int ch,ch1,n;//integer variables

char input;//character variables

do//do while loop

{

system("CLS");

cout << "\n\n \t\tWelcome To Flight Reservation System" << endl << endl;

cout <<"\t <><><><><><><><><><><><><><><><><><><><><><><>\n";

cout << "\t Book your Flight tickets at affordable prices!" << endl;

cout <<"\t <><><><><><><><><><><><><><><><><><><><><><><>";

cout << "\n\n\t\t\t\1.Book Flight(1) \n\t\t\t\2.Cancel Fight(2) \n\t\t\t\3.Check Ticket(3) \n\t\t\t\4.Exit(4)" << endl;

cout << "\n\t\t Please enter your choice:";

cin >> ch;

switch(ch)//witch case

{

case 1://condition

system("CLS");

cout << "\n\n\1.Domestic Fights(1) \n\2.International Flights(2)" << endl;

cout << "\nPlease enter your option" << endl;

cin >> ch1;

switch(ch1)//inner switch case

{

case 1:

p1.pnr();

p1.p\_detail(1);

p1.gender\_check();

p1.more\_details();

p2.pay\_detail();

p1.disp();

createfile(p1);//call to create file

break;

case 2:

p1.I\_PNR();

p1.p\_detail(2);

p1.gender\_check();

p1.more\_details();

p2.pay\_detail();

p1.dispi();

createfilei(p1);//call to create file

break;

default://wrong input

cout << "Wrong input entered\nTry again\n\n\n" << endl;

return main();

}

break;

case 2:

//for canceling ticket

system("CLS");

cout << "\1.Domestic Fights(1) \n\2.International Flights(2)" << endl;

cout << "\nPlease enter your option" << endl;

cin >> ch1;

if(ch1==1)

{

cout << "Please enter your PNR no.:" << endl;

cin>>n;

cancelticket(n);//function call for domestic booking cancellation

}

else if(ch1==2)

{ cout << "Please enter your PNR no.:" << endl;

cin>>n;

cancelticketi(n);//function call for international cancellation

}

else

{

cout << "Wrong input entered\nTry again\n\n\n";

return main();

}

break;

case 3://for displaying booked ticket details

system("CLS");

cout << "\1.Domestic Fights(1) \n\2.International Flights(2)" << endl;

cout << "\nPlease enter your option" << endl;

cin >> ch1;

if(ch1==1)

{cout << "Please enter your PNR no.:" << endl;

cin>>n;

checkticket(n);}//function call to display domestic ticket details

else if(ch1==2)

{ cout << "Please enter your PNR no.:" << endl;

cin>>n;

checkticketi(n);//function call to display domestic ticket details

}

else

{

cout << "Wrong input entered.\nTry again\n\n\n";

return main();

}

break;

case 4:

system("CLS");

cout<<"\n\n\t\t\t\tBrought to you by code-projects.org";

return 0;

default://for wrong input

cout << "Wrong input entered\nTry again.\n\n\n\n" << endl;

return main();

}

cout<<"\n\n\nDo you wish to continue:(y/Y)" << endl;

cin >> input;

}while(input=='Y' || input=='y');//condition for do while loop

return 0;

}

RESULT AND DISCUSSION:

1.Input screen

Text

Description automatically generated

BOOK FLIGHT: 1.DOMESTIC BOOKING

Graphical user interface, text

Description automatically generated

A screenshot of a computer

Description automatically generated

A picture containing text, screenshot, electronics, monitor

Description automatically generated

INTERNATIONAL :

Text

Description automatically generated

A picture containing text, screenshot, computer

Description automatically generated

Text

Description automatically generated

CHECK FLIGHT: Text

Description automatically generated

CANCEL TICKET:

Text

Description automatically generated

CONCLUSION:

From all the results of this flight reservation system we can conclude with the fact that this flight reservation system is very user friendly for all users. We can book international as well as domestic flight tickets by using this reservation system and we can also check our booked reservations and we can cancel the booked tickets as well.

THANK YOU