#include<iostream>

#include<fstream>

#include<iomanip>

using namespace std;

void mainMenu();//globally declared, it is the function prototype

class Management

{

public:

Management()

{

mainMenu();

}

};

class Details

{

public:

static string Name, Gender;

int phoneNo;

int age;

string address;

static int Customer\_id;

char arr[100];

void information()

{

cout<<"\nEnter the Customer ID: ";

cin>>Customer\_id;

cout<<"\nEnter the Name: ";

cin>>Name;

cout<<"Enter the Age: ";

cin>>age;

cout<<"\n Address: ";

cin>>address;

cout<<"\n Enter the Gender: ";

cin>>Gender;

cout<<"Your Details are saved with Us\n"<<endl;

}

};

int Details::Customer\_id;

string Details::Name;

string Details::Gender;

class Registration

{

public:

static int choice;

int choice1;

int back;

static float charges;

void Flights()

{

string FlightN[] = {"America(USA)", "London(UK)", "Singapur",

"Dubai", "Netherland", "Japan", "Jarmany",

"Australia","Thailand","South Korea"

};

for(int a=0; a<10; a++)

{

cout<<(a+1)<<". Flight to "<<FlightN[a]<<endl;

}

cout<<"\n\*\*\*\*\*\* Welcome to INDIGO Airlines!! \*\*\*\*\*"<<endl;

cout<<"Press the number of the country of which you want to book the flight: ";

cin>>choice;

switch(choice)

{

case 1:

{

cout<<"\_\_\_\_\_\_Welcome to America(USA) Emirates\_\_\_\_\n"<<endl;

cout<<"Your comfort is our priority. Enjoy the journey!!"<<endl;

cout<<"Following are the FLights \n"<<endl;

cout << "1. America (USA) - 498" << endl;

cout<<"\t22-11-2022 8:00 10hrs Rs. 14000"<<endl;

cout<<"2. America(USA) - 658"<<endl;

cout<<"\t23-11-2022 4:00 10hrs Rs. 10000"<<endl;

cout<<"3. America(USA) - 508"<<endl;

cout<<"\t24-11-2022 12:00 10hrs Rs. 9000"<<endl;

cout<<"\nSelect the flight you want to book: ";

cin>>choice1;

if(choice1 == 1)

{

charges = 14000;

cout<<"\n You have Successfully booked the flight AMERICA(USA) - 498"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 2)

{

charges = 10000;

cout<<"\n You have Successfully booked the flight AMERICA(USA) - 658"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 3)

{

charges = 9000;

cout<<"\n You have Successfully booked the flight AMERICA(USA) - 508"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else

{

cout<<"invalid input, Shifting to the previous menu"<<endl;

Flights();

}

cout<<"Press any key to go back to the main menu:"<<endl;

cin>>back;

if(back == 1)

{

mainMenu();

}

else

{

mainMenu();

}

}

case 2:

{

cout<<"\_\_\_\_\_\_Welcome to London(UK) Emirates\_\_\_\_\n"<<endl;

cout<<"Your comfort is our priority. Enjoy the journey!!"<<endl;

cout<<"Following are the FLights \n"<<endl;

cout<<"1. London(UK) - 132"<<endl;

cout<<"\t22-11-2022 8:00 10hrs Rs. 14000"<<endl;

cout<<"2. London(UK) - 234"<<endl;

cout<<"\t23-11-2022 6:00 10hrs Rs. 10000"<<endl;

cout<<"3. London(UK) - 444"<<endl;

cout<<"\t24-11-2022 10:00 10hrs Rs. 9000"<<endl;

cout<<"\nSelect the flight you want to book: ";

cin>>choice1;

if(choice1 == 1)

{

charges = 60000;

cout<<"\n You have Successfully booked the flight LONDON(UK) - 132"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 2)

{

charges = 13400;

cout<<"\n You have Successfully booked the flight LONDON(UK) - 234"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 3)

{

charges = 6000;

cout<<"\n You have Successfully booked the flight LONDON(UK) - 444"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else

{

cout<<"invalid input, Shifting to the previous menu"<<endl;

Flights();

}

cout<<"Press any key to go back to the main menu:"<<endl;

cin>>back;

if(back == 1)

{

mainMenu();

}

else

{

mainMenu();

}

}

case 3:

{

cout<<"\_\_\_\_\_\_Welcome to Singapur Emirates\_\_\_\_\n"<<endl;

cout<<"Your comfort is our priority. Enjoy the journey!!"<<endl;

cout<<"Following are the FLights \n"<<endl;

cout<<"1. SINGAPOOR - 142"<<endl;

cout<<"\t22-11-2022 5:00 10hrs Rs. 14000"<<endl;

cout<<"2. SINGAPOOR - 244"<<endl;

cout<<"\t23-11-2022 4:00 10hrs Rs. 10000"<<endl;

cout<<"3. SINGAPOOR - 484"<<endl;

cout<<"\t24-11-2022 11:00 10hrs Rs. 9000"<<endl;

cout<<"\nSelect the flight you want to book: ";

cin>>choice1;

if(choice1 == 1)

{

charges = 25000;

cout<<"\n You have Successfully booked the flight SINGAPOOR - 142"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 2)

{

charges = 20000;

cout<<"\n You have Successfully booked the flight SINGAPOOR - 244"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 3)

{

charges = 14000;

cout<<"\n You have Successfully booked the flight SINGAPOOR - 484"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else

{

cout<<"invalid input, Shifting to the previous menu"<<endl;

Flights();

}

cout<<"Press any key to go back to the main menu:"<<endl;

cin>>back;

if(back == 1)

{

mainMenu();

}

else

{

mainMenu();

}

}

case 4:

{

cout<<"\_\_\_\_\_\_Welcome to Dubai Emirates\_\_\_\_\n"<<endl;

cout<<"Your comfort is our priority. Enjoy the journey!!"<<endl;

cout<<"Following are the FLights \n"<<endl;

cout<<"1. Dubai - 142"<<endl;

cout<<"\t22-11-2022 5:00 10hrs Rs. 14000"<<endl;

cout<<"2. Dubai - 244"<<endl;

cout<<"\t23-11-2022 4:00 10hrs Rs. 10000"<<endl;

cout<<"3. Dubai - 484"<<endl;

cout<<"\t24-11-2022 11:00 10hrs Rs. 9000"<<endl;

cout<<"\nSelect the flight you want to book: ";

cin>>choice1;

if(choice1 == 1)

{

charges = 25000;

cout<<"\n You have Successfully booked the flight DUBAI - 142"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 2)

{

charges = 20000;

cout<<"\n You have Successfully booked the flight DUBAI - 244"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 3)

{

charges = 14000;

cout<<"\n You have Successfully booked the flight DUBAI - 484"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else

{

cout<<"invalid input, Shifting to the previous menu"<<endl;

Flights();

}

cout<<"Press any key to go back to the main menu:"<<endl;

cin>>back;

if(back == 1)

{

mainMenu();

}

else

{

mainMenu();

}

}

case 5:

{

cout<<"\_\_\_\_\_\_Welcome to Nethrland Emirates\_\_\_\_\n"<<endl;

cout<<"Your comfort is our priority. Enjoy the journey!!"<<endl;

cout<<"Following are the FLights \n"<<endl;

cout<<"1.NETHERLAND - 144"<<endl;

cout<<"\t22-11-2022 5:00 10hrs Rs. 14000"<<endl;

cout<<"2.NETHRLAND - 254"<<endl;

cout<<"\t23-11-2022 4:00 10hrs Rs. 10000"<<endl;

cout<<"3.NETHERLAND - 684"<<endl;

cout<<"\t24-11-2022 11:00 10hrs Rs. 9000"<<endl;

cout<<"\nSelect the flight you want to book: ";

cin>>choice1;

if(choice1 == 1)

{

charges = 25000;

cout<<"\n You have Successfully booked the flight NETHERLAND - 144"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 2)

{

charges = 20000;

cout<<"\n You have Successfully booked the flight NETHERLAND - 254"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 3)

{

charges = 14000;

cout<<"\n You have Successfully booked the flight NETHERLAND - 684"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else

{

cout<<"invalid input, Shifting to the previous menu"<<endl;

Flights();

}

cout<<"Press any key to go back to the main menu:"<<endl;

cin>>back;

if(back == 1)

{

mainMenu();

}

else

{

mainMenu();

}

}

case 6:

{

cout<<"\_\_\_\_\_\_Welcome to Japan Emirates\_\_\_\_\n"<<endl;

cout<<"Your comfort is our priority. Enjoy the journey!!"<<endl;

cout<<"Following are the FLights \n"<<endl;

cout<<"1.Japan - 242"<<endl;

cout<<"\t22-11-2022 5:00 10hrs Rs. 14000"<<endl;

cout<<"2.Japan - 544"<<endl;

cout<<"\t23-11-2022 4:00 10hrs Rs. 10000"<<endl;

cout<<"1.Japan - 464"<<endl;

cout<<"\t24-11-2022 11:00 10hrs Rs. 9000"<<endl;

cout<<"\nSelect the flight you want to book: ";

cin>>choice1;

if(choice1 == 1)

{

charges = 25000;

cout<<"\n You have Successfully booked the flight Japan - 242"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 2)

{

charges = 20000;

cout<<"\n You have Successfully booked the flight Japan - 544"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 3)

{

charges = 14000;

cout<<"\n You have Successfully booked the flight Japan - 464"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else

{

cout<<"invalid input, Shifting to the previous menu"<<endl;

Flights();

}

cout<<"Press any key to go back to the main menu:"<<endl;

cin>>back;

if(back == 1)

{

mainMenu();

}

else

{

mainMenu();

}

}

case 7:

{

cout<<"\_\_\_\_\_\_Welcome to Jarmany Emirates\_\_\_\_\n"<<endl;

cout<<"Your comfort is our priority. Enjoy the journey!!"<<endl;

cout<<"Following are the FLights \n"<<endl;

cout<<"1.JARMNAY - 742"<<endl;

cout<<"\t22-11-2022 5:00 10hrs Rs. 14000"<<endl;

cout<<"2.JARMNAY - 644"<<endl;

cout<<"\t23-11-2022 4:00 10hrs Rs. 10000"<<endl;

cout<<"3.JARMNAY - 494"<<endl;

cout<<"\t24-11-2022 11:00 10hrs Rs. 9000"<<endl;

cout<<"\nSelect the flight you want to book: ";

cin>>choice1;

if(choice1 == 1)

{

charges = 25000;

cout<<"\n You have Successfully booked the flight JARMNAY - 742"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 2)

{

charges = 20000;

cout<<"\n You have Successfully booked the flight JARMNAY - 644"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 3)

{

charges = 14000;

cout<<"\n You have Successfully booked the flight JARMNAY - 494"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else

{

cout<<"invalid input, Shifting to the previous menu"<<endl;

Flights();

}

cout<<"Press any key to go back to the main menu:"<<endl;

cin>>back;

if(back == 1)

{

mainMenu();

}

else

{

mainMenu();

}

}

case 8:

{

cout<<"\_\_\_\_\_\_Welcome to Australia Emirates\_\_\_\_\n"<<endl;

cout<<"Your comfort is our priority. Enjoy the journey!!"<<endl;

cout<<"Following are the FLights \n"<<endl;

cout<<"1.Australia - 444"<<endl;

cout<<"\t22-11-2022 5:00 10hrs Rs. 14000"<<endl;

cout<<"2.Australia - 333"<<endl;

cout<<"\t23-11-2022 4:00 10hrs Rs. 10000"<<endl;

cout<<"3.Australia - 222"<<endl;

cout<<"\t24-11-2022 11:00 10hrs Rs. 9000"<<endl;

cout<<"\nSelect the flight you want to book: ";

cin>>choice1;

if(choice1 == 1)

{

charges = 25000;

cout<<"\n You have Successfully booked the flight AUSTRALIA - 444"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 2)

{

charges = 20000;

cout<<"\n You have Successfully booked the flight AUSTRALIA - 333"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 3)

{

charges = 14000;

cout<<"\n You have Successfully booked the flight AUSTRALIA - 222"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else

{

cout<<"invalid input, Shifting to the previous menu"<<endl;

Flights();

}

cout<<"Press any key to go back to the main menu:"<<endl;

cin>>back;

if(back == 1)

{

mainMenu();

}

else

{

mainMenu();

}

}

case 9:

{

cout<<"\_\_\_\_\_\_Welcome to Thailand Emirates\_\_\_\_\n"<<endl;

cout<<"Your comfort is our priority. Enjoy the journey!!"<<endl;

cout<<"Following are the FLights \n"<<endl;

cout<<"1.Thailand - 142"<<endl;

cout<<"\t22-11-2022 5:00 10hrs Rs. 14000"<<endl;

cout<<"2.Thailand - 244"<<endl;

cout<<"\t23-11-2022 4:00 10hrs Rs. 10000"<<endl;

cout<<"3.Thailand - 484"<<endl;

cout<<"\t24-11-2022 11:00 10hrs Rs. 9000"<<endl;

cout<<"\nSelect the flight you want to book: ";

cin>>choice1;

if(choice1 == 1)

{

charges = 25000;

cout<<"\n You have Successfully booked the flight THAILAND - 142"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 2)

{

charges = 20000;

cout<<"\n You have Successfully booked the flight THAILAND - 244"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 3)

{

charges = 14000;

cout<<"\n You have Successfully booked the flight THAILAND - 484"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else

{

cout<<"invalid input, Shifting to the previous menu"<<endl;

Flights();

}

cout<<"Press any key to go back to the main menu:"<<endl;

cin>>back;

if(back == 1)

{

mainMenu();

}

else

{

mainMenu();

}

}

case 10:

{

cout<<"\_\_\_\_\_\_Welcome to South Korea Emirates\_\_\_\_\n"<<endl;

cout<<"Your comfort is our priority. Enjoy the journey!!"<<endl;

cout<<"Following are the FLights \n"<<endl;

cout<<"1. SOUTH KOREA - 498"<<endl;

cout<<"\t22-11-2022 8:00 10hrs Rs. 14000"<<endl;

cout<<"2. SOUTH KOREA - 658"<<endl;

cout<<"\t23-11-2022 4:00 10hrs Rs. 10000"<<endl;

cout<<"3. SOUTH KOREA - 508"<<endl;

cout<<"\t24-11-2022 12:00 10hrs Rs. 9000"<<endl;

cout<<"\nSelect the flight you want to book: ";

cin>>choice1;

if(choice1 == 1)

{

charges = 14000;

cout<<"\n You have Successfully booked the flight SOUTH KOREA - 498"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 2)

{

charges = 10000;

cout<<"\n You have Successfully booked the flight SOUTH KOREA - 658"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else if(choice1 == 3)

{

charges = 9000;

cout<<"\n You have Successfully booked the flight SOUTH KOREA - 508"<<endl;

cout<<"You can go back to menu and take the ticket"<<endl;

}

else

{

cout<<"invalid input, Shifting to the previous menu"<<endl;

Flights();

}

cout<<"Press any key to go back to the main menu:"<<endl;

cin>>back;

if(back == 1)

{

mainMenu();

}

else

{

mainMenu();

}

}

default:

{

cout<<"Invalid input, Shifting to the main menu!!"<<endl;

mainMenu();

break;

}

}

}

};

float Registration::charges;

int Registration::choice;

class Ticket: public Registration, public Details

{

public:

void Bill()

{

string destination=" ";

ofstream outf("records.txt");//it is used to create and write information in the files records.txt--in which data of files will stored; ==outf--obj

{

outf<<"\_\_\_\_\_\_\_INDIGO Airline\_\_\_\_\_\_\_"<<endl;

cout<<endl;

outf<<"\_\_\_\_\_\_\_\_\_\_Ticket\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;

outf<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;

outf<<"Custmer Id: "<<Details::Customer\_id<<endl;

outf<<"Custmer Name: "<<Details::Name<<endl;

outf<<"Custmer Gender: "<<Details::Gender<<endl;

outf<<"\t Description "<<endl<<endl;

if(Registration::choice==1)

{

destination="London";

}

else if(Registration::choice==2)

{

destination="America(USA)";

}

else if(Registration::choice==3)

{

destination="Singapoor";

}

else if(Registration::choice==4)

{

destination="Dubai";

}

else if(Registration::choice==5)

{

destination="Netherland";

}

else if(Registration::choice==6)

{

destination="Japan";

}

else if(Registration::choice==7)

{

destination="Australia";

}

else if(Registration::choice==8)

{

destination="jarmany";

}

else if(Registration::choice==9)

{

destination="Thailand";

}

else if(Registration::choice==10)

{

destination="South Korea";

}

outf<<"Destination==\t\t"<<destination<<endl;

outf<<"Flight cost== \t\t"<<Registration::charges<<endl;

}

outf.close();

}

void dispBill()

{

ifstream ifs("records.txt");

{

if(!ifs)

{

cout<<"File error!"<<endl;

}

while(!ifs.eof())

{

ifs.getline(arr, 100);

cout<<arr<<endl;

}

}

ifs.close();

}

};

void mainMenu()

{

int lchoice;

int schoice;

int back;

cout<<"\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* INDIGO Airlines \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n"<<endl;

cout<<"\t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Main Menu \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;

cout<<"\t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;

cout<<"\t\t\t\t\t\t\t"<<endl;

cout<<"\t||\t Press 1 to add the Customer Details \t||"<<endl;

cout<<"\t||\t Press 2 for Flight Registration \t||"<<endl;

cout<<"\t||\t Press 3 for Ticket and Charges \t||"<<endl;

cout<<"\t||\t Press 4 to Exit \t||"<<endl;

cout<<"\t\t\t\t\t\t\t"<<endl;

cout<<"\t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl<<endl;

cout<<"Enter the choice : ";

cin>>lchoice;

Details d;

Registration r;

Ticket t;

switch(lchoice)

{

case 1:

{

cout<<"\_\_\_\_Customers\_\_\_\n"<<endl;

t.information();

cout<<"Press any key to go back to the Main Menu ";

cin>>back;

if(back == 1)

{

mainMenu();

}

else

{

mainMenu();

}

break;

}

case 2:

{

cout<<"\_\_\_\_Book a Flight using this system\_\_\_\_\n"<<endl;

t.Flights();

break;

}

case 3:

{

cout<<"\_\_\_\_\_GET YOUR TICKET\_\_\_\_\n"<<endl;

t.Bill();

cout<<"Your Ticket is Printed, You can collect it \n"<<endl;

cout<<"Press 1 to Display your ticket ";

cin>>back;

if(back == 1)

{

t.dispBill();

cout<<"Press any key to go back to main menu: ";

cin>>back;

if(back == 1)

{

mainMenu();

}

else

{

mainMenu();

}

}

else

{

mainMenu();

}

break;

}

case 4:

{

cout<<"\n\n\t\_\_\_\_\_Thank You\_\_\_\_"<<endl;

break;

}

default:

{

cout<<"Invalid Input, Please try again!!\n"<<endl;

mainMenu();

break;

}

}

}

int main()

{

Management Mobj;

return 0;

}