#include <iostream>

#include <mysql.h>

#include <mysqld\_error.h>

#include <windows.h>

#include <sstream>

using namespace std;

const char\*HOST ="localhost";

const char\*USER ="root";

const char\*PW ="your password";

// databse estabilshed with name db in folder mydb

const char\*DB ="mydb";

class Flight{

private:

string Fnub, Dep,Des;

int Seat;

public:

Flight(string fnub, des, dep, int seat){

Fnub = fnub;

Des = des;

Dep = dep;

Seat = seat;

}

string getFnub(){

return Funb;

}

string getDeS(){

return DeS;

}

string getDep(){

return Dep;

}

int getSeat(){

return Seat;

}

};

int main()

{

// connection estabilshed with my mysql with port number 3360

MYSQL\* conn;

conn = mysql\_init(NULL);

// connection not be estabilshed then

if(! mysql\_real\_connect(conn,HOST,USER,PW,DB,3306,NULL,0)){

cout<<"Error: "<<mysqld\_error(conn)<<endl;

}

else{

cout<<"Logged Into the Database !"<<endl;

}

//sleep is used for display const for a minute;

sleep(3000);

Flight f1("Boeing 247", "PAT", "DEL",50);

Flight f2("Boeing 737", "PAT", "DEL",40);

Flight f3("Boeing 777", "PAT", "DEL",30);

int intS1 = f1.getSeat();

// to convert int to string we use sstream lib for that and also vice versa;

stringstream ss1,ss2,ss3;

ss1<<intS1;

string strS1 = ss1.str();

// insert through Database by using mysql with variable name airline

string insert1 = "INSERT INTO Airline (Fnumber, Departure, Destination, Seat) VALUES ('"+f1.getFnub()+"','"+f1.getDeS()+"','"+f1.getDep()+"','"+strS1"')"

string insert2 = "INSERT INTO Airline (Fnumber, Departure, Destination, Seat) VALUES ('"+f2.getFnub()+"','"+f2.getDeS()+"','"+f2.getDep()+"','"+strS2"')"

string insert3 = "INSERT INTO Airline (Fnumber, Departure, Destination, Seat) VALUES ('"+f3.getFnub()+"','"+f3.getDeS()+"','"+f3.getDep()+"','"+strS3"')"

if(mysql\_query(conn,insert1.c\_str()||mysql\_query(conn,insert2.c\_str()||mysql\_query(conn,insert3.c\_str())){

cout<<"Error:"<<mysql\_error(conn)<<endl;

}else{

cout<<"INSERTED SUCESSFULLY"<<endl;

}

sleep(3000);

bool exit = false;

while(!exit){

system(cls);

cout<<endl;

cout<<"Welcome to Airline Reservation system"<<endl;

cout<<"Reserve Seat"<<endl;

cout<<"Exit"<<endl;

cout<<"Enter Choice"<<endl;

int val=0;

cin >>val ;

if(val==1){

string Flight;

cout<<endl;

cout<<"Enter the Flight Number"<<endl;

cin>>Flight;

int total;

// search in the Database

string check = "SELECT seat FROM Airline WHERE = '"+Flight+"'";

//ccheck Error

if(mysql\_query(conn,check.c\_str())){

cout<<"Error:"<<mysql\_error(conn)<<endl;

}

else{

//result

MYSQL\_RES\*res;

res = mysql\_store\_result(conn);

if(res){

MYSQL\_ROW row=mysql\_fetch\_row(conn);

total = atoi(row[0]);

}

}

if(total>0){

total--;

stringstream sst;

sst<<total;

string strT=sst.str();

string update = "UPDATE Airline SET Seat = '"+strT+"'WHERE = '"+Flight+"'";

if(mysql\_query(conn,u.c\_str())){

cout<<"Error:"<<mysql\_error(conn)<<endl;

}else{

cout<<"Seat"

}

}

}//if val =1

}//while end

return 0;

}