#include<fstream>

#include<conio.h>

#include<string.h>

#include<iomanip>

#include<iostream>

#include <cstdlib>

using namespace std;

class tour1

{

public:

int tour\_number;

char tour\_name[50];

};

class tour : public tour1

{

float tour\_price,tour\_quantity,tax,tour\_discount;

public:

void create\_tour()

{

cout<<endl<<"Please Enter The tour Number: ";

cin>>tour\_number;

cout<<endl<<"Please Enter The Name of The tour: ";

cin.ignore();

cin.getline(tour\_name ,50);

cout<<endl<<"Please Enter The Price of The tour: ";

cin>>tour\_price;

cout<<endl<<"Please Enter The Discount (%): ";

cin>>tour\_discount;

}

void show\_tour()

{

cout<<endl<<"tour #: "<<tour\_number;

cout<<endl<<"tour Name: "<<tour\_name;

cout<<endl<<"tour Price: "<<tour\_price;

cout<<endl<<"Discount : "<<tour\_discount;

}

int gettour()

{

return tour\_number;

}

float gettour(float a1)

{

return tour\_price;

}

char\* getName()

{

return tour\_name;

}

float getDiscount()

{

return tour\_discount;

}

};

fstream fp;

tour t;

void save\_tour()

{

fp.open("database.dat",ios::out|ios::app);

t.create\_tour();

fp.write((char\*)&t,sizeof(tour));

fp.close();

cout<<endl<<endl<<"The tour Has Been Sucessfully Created...";

getchar();

}

void show\_all\_tour()

{

system("cls");

cout<<endl<<"\t\tRECORDS.";

fp.open("database.dat",ios::in);

while(fp.read((char\*)&t,sizeof(tour)))

{

t.show\_tour();

getchar();

}

fp.close();

}

void display\_record(int num)

{

bool found=false;

fp.open("database.dat",ios::in);

while(fp.read((char\*)&t,sizeof(tour)))

{

if(t.gettour()==num)

{

system("cls");

t.show\_tour();

found=true;

}

}

fp.close();

if(found == true)

cout<<"\n\nNo record found";

getchar();

}

void edit\_tour()

{

int num;

bool found=false;

system("cls");

cout<<endl<<endl<<"\tPlease Enter The tour : ";

cin>>num;

fp.open("database.dat",ios::in|ios::out);

while(fp.read((char\*)&t,sizeof(tour)) && found==false)

{

if(t.gettour()==num)

{

t.show\_tour();

cout<<"\nPlease Enter The New Details of tour: "<<endl;

t.create\_tour();

int pos=-1\*sizeof(t);

fp.seekp(pos,ios::cur);

fp.write((char\*)&t,sizeof(tour));

cout<<endl<<endl<<"\t Record Successfully Updated...";

found=true;

}

}

fp.close();

if(found==false)

cout<<endl<<endl<<"Record Not Found...";

getchar();

}

void delete\_tour()

{

int num;

system("cls");

cout<<endl<<endl<<"Please Enter The tour #: ";

cin>>num;

fp.open("database.dat",ios::in|ios::out);

fstream fp2;

fp2.open("Temp.dat",ios::out);

fp.seekg(0,ios::beg);

while(fp.read((char\*)&t,sizeof(tour)))

{

if(t.gettour()!=num)

{

fp2.write((char\*)&t,sizeof(tour));

}

}

fp2.close();

fp.close();

remove("database.dat");

rename("Temp.dat","database.dat");

cout<<endl<<endl<<"\tRecord Deleted...";

getchar();

}

void tour\_menu()

{

system("cls");

fp.open("database.dat",ios::in);

cout<<endl<<endl<<"\t\t tour MENU\n\n";

cout<<"P.NO.\t\tNAME\t\tPRICE\n";

while(fp.read((char\*)&t,sizeof(tour)))

{

cout<<t.gettour()<<"\t\t"<<t.getName()<<"\t\t"<<t.gettour()<<endl;

}

fp.close();

}

void place\_tour()

{

int order\_arr[50],quan[50],c=0;

float amt,damt,total=0;

char ch='Y';

tour\_menu();

cout<<"\n PLACE YOUR TOUR";

do{

cout<<"\n\nEnter The tour #: ";

cin>>order\_arr[c];

cout<<"\nQuantity: ";

cin>>quan[c];

c++;

cout<<"\nDo You Want To Order Another tour ? (y/n)";

cin>>ch;

}while(ch=='y' ||ch=='Y');

cout<<"\n\nThank You...";

getchar();

system("cls");

cout<<"\n\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*FINAL BILL\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n";

cout<<"\nPr No.\tPr Name\tQuantity \tPrice \tAmount \tAmount after discount\n";

for(int x=0;x<=c;x++)

{

fp.open("database.dat",ios::in);

fp.read((char\*)&t,sizeof(tour));

while(!fp.eof())

{

if(t.gettour()==order\_arr[x])

{

amt=t.gettour()\*quan[x];

damt=amt-(amt\*t.getDiscount()/100);

cout<<"\n"<<order\_arr[x]<<"\t"<<t.getName()<<"\t"<<quan[x]<<"\t\t"<<t.gettour()<<"\t"<<amt<<"\t\t"<<damt;

total+=damt;

}

fp.read((char\*)&t,sizeof(tour));

}

fp.close();

}

cout<<"\n\n\t\t\t\t\tTOTAL = "<<total;

getchar();

}

void admin\_menu()

{

system("cls");

int option;

cout<<"\n\tPress 1 to CREATE Tour";

cout<<"\n\tPress 2 to DISPLAY ALL TOUR";

cout<<"\n\tPress 3 to QUERY ";

cout<<"\n\tPress 4 to MODIFY TOUR";

cout<<"\n\tPress 5 to DELETE TOUR";

cout<<"\n\tPress 6 to GO BACK TO MAIN MENU";

cout<<"\n\n\tOption: ";

cin>>option;

switch(option)

{

case 1: system("cls");

save\_tour();

break;

case 2: show\_all\_tour();

break;

case 3:

int num;

system("cls");

cout<<"\n\n\tPlease Enter The tour Number: ";

cin>>num;

display\_record(num);

break;

case 4: edit\_tour();

break;

case 5: delete\_tour();

break;

case 6: system("cls");

break;

default:admin\_menu();

}

}

int main(int argc, char \*argv[])

{

system("cls");

system("color 00");

int option;

for(;;)

{

cout<<"\n\t1. CUSTOMER";

cout<<"\n\t2. ADMINISTRATOR";

cout<<"\n\t3. EXIT";

cout<<"\n\tOption: ";

cin>>option;

switch(option)

{

case 1: system("cls");

place\_tour();

getchar();

break;

case 2: admin\_menu();

break;

case 3:

cout<<"\n\tGood Bye!";

exit(0);

default :cout<<"Invalid Input...\n";

}

}

};