#include<iostream>

#include<string>

#include<stdlib.h>

#include<fstream>

using namespace std;

class Building //健身综合会所（父类）

{

public:

int projectId;

double pricePerYear; //每年价格

string openTime ; //开放时间

Building(int id,double pricePY,string opTime)

{

projectId=id;

pricePerYear=pricePY;

openTime=opTime;

}

};

class SwimPool :public Building //游泳馆 (子类)

{

public:

SwimPool(int id,double pricePY,string opTime,string waterTem,string oToAge):Building(id,pricePY,opTime)

{

waterTemperater=waterTem;

openToAge=oToAge;

}

void showInfo(){

cout<<"游泳馆:"<<endl;

cout<<"项目Id为:"<<projectId<<endl;

cout<<"包年价格:"<<pricePerYear<<endl;

cout<<"开放时间:"<<openTime<<endl;

cout<<"泳池水温:"<<waterTemperater<<endl;

cout<<"适合年龄:"<<openToAge<<endl;

cout<<endl;

}

string waterTemperater; //水温

string openToAge; //开放年龄

};

class FitRoom :public Building //健身房 (子类)

{

public:

FitRoom(int id,double pricePY,string opTime,int cNumber,string sbpp):Building(id,pricePY,opTime)

{

couchNumber = cNumber ; //健身教练数目

shebeipinpai = sbpp ; //健身设备品牌

}

void showInfo(){

cout<<"健身房:"<<endl;

cout<<"项目Id为:"<<projectId<<endl;

cout<<"包年价格:"<<pricePerYear<<endl;

cout<<"开放时间:"<<openTime<<endl;

cout<<"教练数量:"<<couchNumber<<endl;

cout<<"设备品牌:"<<shebeipinpai<<endl;

cout<<endl;

}

int couchNumber;

string shebeipinpai;

};

class YuJiaRoom :public Building //瑜伽馆

{

public:

YuJiaRoom(int id,double pricePY,string opTime,string tcName,string kcap):Building(id,pricePY,opTime)

{

teacherName = tcName; //老师姓名

keChengAnPai = kcap ; //课程安排

}

void showInfo(){

cout<<"瑜伽馆:"<<endl;

cout<<"项目Id为:"<<projectId<<endl;

cout<<"包年价格:"<<pricePerYear<<endl;

cout<<"开放时间:"<<openTime<<endl;

cout<<"老师姓名:"<<teacherName<<endl;

cout<<"课程安排:"<<keChengAnPai<<endl;

cout<<endl;

}

string teacherName;

string keChengAnPai;

};

class CstmInfor //顾客信息

{

public:

void dis()

{

cout<<"用户姓名:"<<CstmName<<endl;

cout<<"选择的服务项目:"<<id<<endl;

cout<<"开卡日期:"<<beginTime<<endl;

}

CstmInfor()

{

}

void setinfo()

{

int flag =0;

cout<<"请输入姓名："<<endl;

cin>>CstmName;

while(true){

if(flag ==0){

flag = 1;

cout<<"请输入选择的服务项目(请输入项目id)"<<endl;

}

else{

cout<<"抱歉您输入有误,请重新输入:"<<endl;

cout<<"请输入选择的服务项目(请输入项目id)"<<endl;

}

cin>>id;

if(id==1||id==2||id==3){

switch(id){

case 1: fwxm = "游泳馆";

break;

case 2:fwxm="健身房";

break;

case 3:fwxm ="瑜伽馆";

break;

}

flag=0;

break;

}

}

cout<<"请输入开卡时间"<<endl;

cin>>beginTime;

}

string CstmName; //用户姓名

int id; //用户选择的健身项目

string fwxm; //用户选择的服务项目

string beginTime; //用户开卡时间

};

void loginInterface(){

cout<<"顾客你好";

}

void AllInfo(){

SwimPool sp=SwimPool(1,680,"夏季5-10月","26摄氏度","8-55岁");

FitRoom fr=FitRoom(2,1680,"全年开放",23,"英尔健");

YuJiaRoom yjr=YuJiaRoom(3,2680,"全年开放","张伟丽","下午3:00-5:00 & 晚上7:00-9:00");

sp.showInfo();

fr.showInfo();

yjr.showInfo();

}

int huanying(){

cout<<"欢迎来到健身会所！"<<endl;

cout<<"以下是我们会所的服务信息:"<<endl<<endl;

AllInfo();

int a;

while(true){

cout<<"如果想要办卡,请输入1,如果想退出本系统,请输入0:";

cin>>a;

if(a==0||a==1){

break;

}

}

return a;

}

int confirm(CstmInfor ci){

cout<<"请确认您所填的信息"<<endl;

cout<<"姓名:"<<ci.CstmName<<endl;

cout<<"服务项目:"<<ci.fwxm<<endl;

cout<<"开卡时间:"<<ci.beginTime<<endl;

cout<<"确认无误输入1，重新填写输入0:";

int conf = 0;

while(true){

cin>>conf;

if(conf==1||conf==0){

break;

}

else{

cout<<"请输入0或1来确认信息!!!"<<endl;

}

}

return conf;

}

void writeInFile(CstmInfor ci){//将内容写入文件

fstream both ;

both.open("健身会所数据.txt",ios::app);

both<<"姓名:"<<" "<<ci.CstmName<<" ";

both<<"项目:"<<" "<<ci.fwxm<<" ";

both<<"开始时间:"<<" "<<ci.beginTime<<endl;

both.close();

}

void readFile(){ //J将内容从文件读出

fstream both ;

both.open("健身会所数据.txt");

int length;

both.seekg(0, std::ios::end);

length = both.tellg();

both.seekg(0, std::ios::beg);

char \* buffer = new char[length];

both.read(buffer, length);

both.close();

cout<<buffer;

}

int main(){

const string userPassword="123456"; //判断是否是管理员，管理员可以查看信息

string key;

//判断是管理员还是顾客

while(true){

cout<<"管理员登陆请输入密码，游客登陆请输入'youke'::";

cin>>key;

if(key==userPassword||key=="youke"){

break;

}

}

//游客身份登陆

if(key == "youke"){

//展示欢迎界面

int res = huanying();

int conf ;

if(res==1){

//向顾客展示信息

system("cls");

AllInfo();

//用户填写信息

CstmInfor ci = CstmInfor();

ci.setinfo();

system("cls");

//用户确认信息

conf = confirm(ci);

while(true){

if(conf==1){

system("cls");

writeInFile(ci);

cout<<"您提交的数据已录入数据库,希望我们的服务能满足您的要求，祝您运动愉快！！"<<endl;

break;

}

else{

system("cls");

ci.setinfo();

system("cls");

conf = confirm(ci);

}

}

}

}

//管理员身份登陆

else{

cout<<"您进入了管理员系统";

cout<<"下面将为您展示会员信息:"<<endl;

readFile();

}

}







