#include<iostream>

#include<fstream>

#include<string.h>

#include<conio.h>

using namespace std;

ofstream fout;

ifstream fin;

fstream file;

class clothesinfo

{

private:

int q;

long long price;

char size[50];

char name[50],colour[50];

public:

void add();

void viewallclothes();

void find(char \*);

void cut(char \*);

void update(char \*);

}cloth;

void clothesinfo::add()

{

cout<<" Enter the details of the clothing you want to add:\n\n";

cout<<" Name: ";

cin>>name;

cout<<"\n Size(XS/S/M/L/XL/XXL): ";

cin>>size;

cout<<"\n Colour: ";

cin>>colour;

cout<<"\n Quantity: ";

cin>>q;

cout<<"\n Price(in rupees): ";

cin>>price;

fout.write((char\*)this,sizeof(\*this));

cout<<"\n Clothing Added Successfully!";

fout.close();

}

void clothesinfo::viewallclothes()

{

fin.read((char\*)&cloth,sizeof(cloth));

while(!fin.eof())

{

cout<<"\n "<<name;

int k=strlen(name);

int n=k-5;

for (int i=0;i<22-n;i++)

{

cout<<" ";

}

cout<<size;

k=strlen(size);

n=k-5;

for (int i=0;i<18-n;i++)

{

cout<<" ";

}

cout<<colour;

k=strlen(colour);

n=k-5;

for (int i=0;i<21-n;i++)

{

cout<<" ";

}

cout<<q;

int j=0;

while(q>0)

{

int r=q%10;

j++;

q=q/10;

}

if(j>3)

{ n=j-5; }

else

{ n=5-j; }

for (int i=0;i<27-n;i++)

{

cout<<" ";

}

cout<<price;

fin.read((char\*)&cloth,sizeof(cloth));

}

fin.close();

}

void clothesinfo::find(char \*t)

{

cout<<"\n\n Details of the clothing that you searched for:\n\n";

int counter=0;

fin.read((char\*)this,sizeof(\*this));

while(!fin.eof())

{

if(!strcmp(t,name))

{

counter++;

cout<<" Name:"<<name<<" Size:"<<size<<" Colour:";

cout<<colour<<" Quantity:"<<q<<" Price(in rupees):"<<price<<endl;

}

fin.read((char\*)this,sizeof(\*this));

}

if(counter==0)

{

cout<<" Record not found!";

}

fin.close();

}

void clothesinfo::cut(char \*t)

{

int counter=0;

fout.open("NEWCLOTH.dat",ios::out);

fin.read((char\*)this,sizeof(\*this));

while(!fin.eof())

{

if(strcmp(t,name))

{

fout.write((char\*)this,sizeof(\*this));

}

else

{

counter++;

}

fin.read((char\*)this,sizeof(\*this));

}

if(counter==0)

{

cout<<"\n Record not found!";

}

else

cout<<"\n Clothing Successfuly Removed!";

fin.close();

fout.close();

remove("CLOTH.dat");

rename("NEWCLOTH.dat","CLOTH.dat");

}

void clothesinfo::update(char \*t)

{

cout<<" Change the details of clothing:\n\n";

int counter=0;

file.read((char\*)this,sizeof(\*this));

while(!file.eof())

{

if(!strcmp(t,name))

{

counter++;

cout<<" Name:";

cin>>name;

cout<<" Size(XS/S/M/L/XL/XXL):";

cin>>size;

cout<<" Colour:";

cin>>colour;

cout<<" Quantity:";

cin>>q;

cout<<" Price:";

cin>>price;

file.seekp(file.tellp()-sizeof(\*this));

file.write((char\*)this,sizeof(\*this));

}

file.read((char\*)this,sizeof(\*this));

}

if(counter==0)

{

cout<<" Record not found!";

}

else

cout<<"\n Clothing Successfuly Updated!";

file.close();

}

int main()

{

main:

system("cls");

cout<<"\n WELCOME TO CLOTHING MANAGEMENT SYSTEM\n";

cout<<" =====================================\n";

cout<<" By-KHUSHI PASSI(CO19334)\n";

cout<<" NAVJOT KAUR(CO19343)\n";

cout<<" PARNIT KAUR(CO19344)";

cout<<"\n\n\n";

cout<<" 1.View All Clothes\n\n";

cout<<" 2.Add Clothing\n\n";

cout<<" 3.Edit Clothing\n\n";

cout<<" 4.Remove Clothing\n\n";

cout<<" 5.Find Clothing\n\n";

cout<<" 6.Exit\n\n";

cout<<" Please Enter Required Option: ";

int c;

cin>>c;

switch(c)

{

case 1:

system("cls");

cout<<"\n ALL CLOTHES\n";

cout<<" ===========";

cout<<"\n\n\n\n";

fin.open("CLOTH.dat",ios::in);

if(!fin)

{

cout<<"\n\nFile Not Found!!!";

}

else

{

cout<<" Name";

cout<<" Size";

cout<<" Colour";

cout<<" Quantity";

cout<<" Price(in rupees)\n";

cout<<" ------------------------------------------------------";

cout<<"-----------------------------------------------------------";

cloth.viewallclothes();

}

getch();

goto main;

break;

add:

case 2:

system("cls");

char m;

cout<<"\n ADD CLOTHING\n";

cout<<" ============";

cout<<"\n\n\n\n";

fout.open("CLOTH.dat",ios::app);

cloth.add();

getch();

cout<<" Do you want to add more clothing?(y/n)";

cin>>m;

if((m=='Y')||(m=='y'))

{

goto add;

}

goto main;

break;

edit:

case 3:

char b[50],z;

system("cls");

cout<<"\n EDIT CLOTHING\n";

cout<<" =============";

cout<<"\n\n\n\n";

cout<<" Name of the clothing you want to edit:";

cin>>b;

cout<<"\n\n";

file.open("CLOTH.dat",ios::in|ios::out|ios::ate);

file.seekg(0);

if(!file)

{

cout<<"\n\nFile Not Found!!!";

goto main;

}

else

{

cloth.update(b);

}

getch();

cout<<" Do you want to delete more clothing?(y/n)";

cin>>z;

if((z=='Y')||(z=='y'))

{

goto edit;

}

goto main;

break;

remove:

case 4:

char namme[50],l;

system("cls");

cout<<"\n REMOVE CLOTHING\n";

cout<<" ===============";

cout<<"\n\n\n\n";

cout<<" Name of the clothing you want to remove:";

cin>>namme;

fin.open("CLOTH.dat");

if(!fin)

{

cout<<"\n\nFile Not Found!!!";

goto main;

}

else

{

cloth.cut(namme);

}

getch();

cout<<" Do you want to remove more clothing?(y/n)";

cin>>l;

if((l=='Y')||(l=='y'))

{

goto remove;

}

goto main;

break;

find:

case 5:

char namee[50],r;

system("cls");

cout<<"\n FIND CLOTHING\n";

cout<<" ============";

cout<<"\n\n\n\n";

cout<<" Name of the clothing you want to find:";

cin>>namee;

fin.open("CLOTH.dat");

if(!fin)

{

cout<<"\n\nFile Not Found!!!";

goto main;

}

else

{

cloth.find(namee);

}

getch();

cout<<"\n Do you want to find more clothing?(y/n)";

cin>>r;

if((r=='Y')||(r=='y'))

{

goto find;

}

goto main;

break;

exit:

case 6:

system("cls");

cout<<"\n\n\n Are You Sure, You Want To EXIT (y/n)?";

char yn;

cin>>yn;

if((yn=='Y')||(yn=='y'))

{

system("cls");

cout<<"\n\n\n\n\n\n\n\n ";

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* THANKS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

getch();

exit(0);

}

else if((yn=='N')||(yn=='n'))

goto main;

else

{

cout<<"Please Enter Correctly,try again(y/n)";

goto exit;

}

default:

cout<<"\n\n Wrong Choice....Please Retry!!!";

getch();

goto main;

}

}