OOP Course Project

**Online shopping system using C++**

SY-IC-A

Roll No-12

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**Code:**

#include<iostream>

#include<conio.h>

#include<string.h>

#include<stdio.h>

#include<fstream>

using namespace std;

class product

{

char colour[10],type[10];

char size,gender;

float price;

int in,itemno,sp;

public:

void order();

void show();

void delivery();

void modify();

void remove1();

void accept();

void alot();

int getitem()

{

return itemno;

}

static int bag,n,b;

}p1,d;

int product::bag=0;

int product::n=0;

int product::b=0;

void product::accept() //to be received from user.

{

cout << "item no.";

cin >>itemno;

cout << "\nEnter category (Jeans/Shirt/Kurta)";

cin >> type;

cout << "\nEnter gender (M/F)";

cin >> gender;

cout << "\nEnter colour (Purple/Black/White/Blue/Green/Red)";

cin >> colour;

cout << "\nEnter size (S/M/L)";

cin >> size;

}

void product::order()

{

if (size == 'S' || size == 's')

{

sp = 100;

b=b+sp;

bag++;

}

else

{

if (size == 'M' || size == 'm')

{

sp = 200;

b=b+sp;

bag++;

}

else

{

if (size == 'L' || size == 'l')

{

sp = 300;

b=b+sp;

bag++;

}

else

{

cout << "\nSorry that size is not available";

}

}

}

return;

}

void product::show()

{

cout <<"\nitem no Category Gender Colour Size price\n";

cout<<itemno<<" "<<type<<" "<<gender<<" "<<colour<<" "<<size<<" "<<sp;

return;

}

void product::remove1()

{

int di; //deleteitem

int fl = 0;

char confirm;

cout << "\nBag items:";

ifstream f("D:\\shop.dat", ios::in | ios::binary);

ofstream file("D:\\temp.dat", ios::out | ios::binary);

cout << "\nEnter item no. of the bag item you want to delete";

cin>>di;

while (!f.eof())

{

while(f.read((char\*)&p1, sizeof(p1)))

{

if (p1.getitem()==di)

{

bag--;

b=b-sp;

break;

}

else

{

file.write((char\*)&p1,sizeof(p1));

};

}

}

f.close();

file.close();

remove("D:\\shop.dat");

rename("D:\\temp.dat", "D:\\shop.dat");

f.open("D:\\shop.dat", ios::in|ios::binary);

cout << "Items in bag:";

while (!f.eof())

{

f.read((char\*)&p1, sizeof(p1));

if (f.eof())

break;

p1.show();

}

f.close();

}

void product::alot()

{

b=b-sp;

bag--;

}

void product::modify() //to modify items in bag

{

cout <<"\nitem no Category Gender Colour Size price\n";

cout<<itemno<<" "<<type<<" "<<gender<<" "<<colour<<" "<<size<<" "<<sp;

char gn= ' ', ca[10] = " ", si=' ', co[10] = " ";

cout << "\nUpdated gender: (Enter '.' to retain old one)"; //retain old on ein the sense don't change that

cin >> gn;

cin.ignore();

cout << "Updated category: (Enter '.' to retain old one)";

cin.getline(ca,10);

cout<<"Updated size: (Enter '.' to retain old one)";

cin>>si;

cin.ignore();

cout << "Updated colour: (Enter '.' to retain old one)";

cin.getline(co,10);

if (gn == '.')

gn = gender;

else

gender=gn;

if (strcmp(ca, ".") != 0)

strcpy(type, ca);

if (si=='.')

si=size;

else

size=si;

if (strcmp(co, ".") != 0)

strcpy(colour, co);

}

class address

{

private:

int pin;

char city[50];

char ad[100];

int price;

public:

void ead()

{ cout << "\nEnter shipping details";

cout << "\nPincode:";

cin >> pin;

cin.ignore();

cout << "\nCity:";

cin.getline(city, 50);

cout << "\nAddress:";

cin.getline(ad, 50);

}

void dad()

{

cout << "\nORDER WILL BE SHIPPED TO " << ad << "\nCITY " << city << "\nPINCODE " << pin;

}

};

void product::delivery()

{

address a;

a.ead();

//price calculation:

int tax;

price=100;

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

cout << "\nThe final price is:";

price=price+b;

cout << "\nItem total Cost Rs" << price << "/-";

tax = price \* 0.10;

cout << "\nTax Rs" << tax << "/-";

cout << "\nDelivery charge Rs" << "50/-";

price = price + tax + 50;

cout << "\nSUB TOTAL Rs" << price << "/-";

cout << "\n";

cout << "\n\nOrder confirmed."<<bag<<" items will be delivered to you soon.";

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

//bag items will be displayed here and after that the address

a.dad();

return;

}

int main()

{ char ch1;

int ch;

cout << "----------Welcome to ADOS!----------";

do{

cout << "\nMenu:";

cout << "\n1.Add items to bag" << "\n2.Modify items in bag" << "\n3.Delete items from bag" << "\n4.Display items from bag" << "\n5.Confirm and place order"<<"\n6.Exit and clear bag\n";

cout<<"\nEnter choice ";

cin >> ch;

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

switch(ch)

{

case 1: //insertion: getting the items from user

{

char c;

ofstream fout;

fout.open("d:\\shop.dat", ios::app | ios::binary);

do

{ p1.accept();

p1.order();

fout.write((char\*)&p1, sizeof(p1));

cout << "\nContinue adding items to bag?"; //takes all orders at once.

cin >> c;

} while (c == 'y' ||c== 'Y'); //when user enters no they can't order again. they can only modify and delete.

fout.close();

}

break;

case 2:

{ fstream fio("d:\\shop.dat", ios::in | ios::out | ios::binary);

int m, flag = 0;

long pos, pos1;

cout << "\nEnter item no. you wish to modify";

cin >> m;

while (fio.read((char\*)&p1, sizeof(p1)))

{ pos = fio.tellg();

pos = pos - sizeof(p1);

if (p1.getitem() == m)

{ p1.alot();

p1.modify();

p1.order();

fio.seekg(pos);

fio.write((char\*)&p1,sizeof(p1));

flag = 1;

fio.close();

break;

}

}

if (flag == 0)

{

cout << "\nThe bag item which you want to modify is not found";

fio.close();

}

fstream fio1("d:\\shop.dat", ios::in | ios::out | ios::binary);

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

cout << "\nBag items after modification";

while (fio1.read((char\*)&p1, sizeof(p1)))

{

p1.show();

}

fio1.close();

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

break;

}

case 3: //deletion: removing an item.

{

p1.remove1();

break;

}

case 4: //display the bag items here

{

cout << "\n\*\*\*\*\*\*\*Items in your bag\*\*\*\*\*\*\*\n";

ifstream fdisp;

fdisp.open("d:\\shop.dat", ios::in | ios::binary);

while(fdisp.read((char\*)&p1,sizeof(p1)))

{

p1.show();

};

fdisp.close();

break;

}

case 5: // delivery part+price calculation

{

d.delivery();

break;

}

case 6:

{

cout<<"\nExiting and clearing bag. Thank you for shopping with us!";

remove("d:\\shop.dat");

getch();

break;

}

default:

cout << "Wrong choice";

}

cout << "\nOpen menu?(y/n)";

cin >> ch1;

}while (ch1 == 'Y' || ch1 == 'y');

remove("d:\\shop.dat");

getch();

}

**Output:**





