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The project about ECommerce System

### **Class Product:**

```
public class Product { 16 usages 3 inheritors
3 QL
          protected int productId; 3 usages
          protected String name; 4 usages
          protected float price; 5 usages
          public int getProductId() { no usages
              return productId;
          public void setProductId(int productId) { no usages
              this.productId = productId;
          public String getName() { 1usage
              return name;
          public void setName(String name) { nousages
              this.name = name;
```

# **Class Electronic product:**

```
// class ElectronicProduct
public class ElectronicProduct extends Product { no usages
private String brand; 3 usages
private int warrantyPeriod; 3 usages

public ElectronicProduct(){} no usages

public ElectronicProduct(){} no usages

public ElectronicProduct( int productId,String name,float price,String brand, int warrantyPeriod){ no usages
super(productId, name, price);
this.brand = brand;
this.warrantyPeriod = warrantyPeriod;
}

public String getBrand() { return brand; }

public void setBrand(String brand) { this.brand = brand; }

public int getWarrantyPeriod() { return warrantyPeriod; }

public void setWarrantyPeriod(int warrantyPeriod) { this.warrantyPeriod = warrantyPeriod; }

public void setWarrantyPeriod(int warrantyPeriod) { this.warrantyPeriod = warrantyPeriod; }
}
```

# **Class Clothing Product:**

```
public class ClothingProduct extends Product { 2 usages
    private String size; 3 usages
    private String fabric; 3 usages

public ClothingProduct(){} no usages

public ClothingProduct(int productId, String size, float price, String fabric, String name) { 1 usage
    super(productEd), name, price);
    this.size = size;
    this.fabric = fabric;
}

public String getSize() { no usages
    return size;
}

public void setSize(String size) { no usages
    this.size = size;
}

public String getFabric() { no usages
    return fabric;
}

public void setFabric(String fabric) { no usages
    return fabric;
}

public void setFabric(String fabric) { no usages
    return fabric;
}

public void setFabric(String fabric) { no usages
    this.fabric = fabric;
}

public void setFabric(String fabric) { no usages
    this.fabric = fabric;
}
```

### **Class Book Product:**

```
public class BookProduct extends Product{ no usages

private String author; 3 usages

private String publisher; 3 usages

public BookProduct(){} no usages

public BookProduct(int productId, String name , float price, String publisher, String author) { no usages

super(productId, name, price);
this.author = author;
this.publisher = publisher;
}

public String getAuthor() { no usages
    return author;
}

public void setAuthor(String author) { no usages
    this.author = author;
}

public String getPublisher() { no usages
    return publisher;
}

public void setAuthor(String publisher) { no usages
    return publisher;
}

public void setPublisher(String publisher) { no usages
    this.publisher = publisher;
}

public void setPublisher(String publisher) { no usages
    this.publisher = publisher;
}

public void setPublisher = publisher;
}
```

#### **Class Customer:**

```
public class Customer { no usages
   private String name; 3 usages
   private String address; 3 usages
  public Customer(){} no usages
   public Customer(int customerId, String name, String address) {  no usages
       this.customerId = customerId;
        this.address = address;
   public void setCustomerId(int customerId) {  no usages
      this.customerId = customerId;
   public String getName() {  no usages
   public void setName(String name) {  nousages
      this.name = name;
   public String getAddress() {  no usages
   public void setAddress(String address) {  no usages
       this.address = address;
```

#### **Class Cart:**

```
public class Cart { 2 usages
   private Product [] Products; 7 usages
   public Cart(){} no usages
   public Cart(int customerId, int nProducts) { no usages
       this.customerId = Math.abs(customerId);
       this.nProducts = Math.abs(nProducts);
       this.Products = new Product[Math.abs(nProducts)];
   public int getCustomerId() { return customerId; }
   public void setCustomerId(int customerId) { this.customerId = customerId; }
   public void setnProducts(int nProducts) { this.nProducts = nProducts; }
   public Product[] getProducts() { return Products; }
   public void setProducts(Product[] Products) { this.Products = Products; }
   public void addProduct(Product product, int index){    no usages
       if(index>=0 && index < nProducts){
           Products[index]=product;
```

```
public void removeProduct(int index){ no usages

if(index>=0 && index < nProducts){
    Products[index]= null;
}

public float calculatePrice(){ 1 usage
    float totalPrice=0;
    for(Product product : Products){
        if(product != null){
            totalPrice+=product.price;
        }
}

return totalPrice;
}

public Order placeOrder() { return new Order(customerId,Products,calculatePrice()); }

public void addProduct(String label1) { no usages
}

public void addProduct(String label1) { no usages</pre>
```

### **Class Order:**

```
public class Order { 2 usages

private int customerId; 4 usages
private int orderedId; 4 usages
private Product[]Products; 5 usages

private float totalPrice; 4 usages

public Order(int customerId1, Products1, float calculatePrice){} 1 usage

public int getCustomerId() { no usages
    return customerId; }

public void setCustomerId(int customerId) { no usages
    this.customerId = customerId; }

public int getOrderedId() { no usages
    return orderedId; }

public void setOrderedId() { no usages
    return orderedId; }

public void setOrderedId(int orderedId) { no usages
    return orderedId; }

public Product[] getProducts() { no usages
    return Products; }

public void setProducts(Products) { no usages
    return Products; }

public void setProducts(Products) { no usages
    return Products = Products; }

public void setProducts = Products; }
```

#### **Classes about GUI**

## Class login (Ecommerce System)

```
import javax.swing.*;
import java.awt.Color;
import java.awt.Font;
import java.awt.event.ActionListener;
public class EcommerceSystemGUI extends JFrame implements ActionListener { 4usages
    JPanel n = new JPanel(); 13 usages
    JTextField t1=new JTextField(); 2 usages
    JTextField t2=new JTextField(); 2 usages
    JTextField t4=new JTextField(); 2 usages
    JButton b1=new JButton( text: "Create"); 6 usages
    JLabel 11=new JLabel( text: "Welcome to the E-Commerce System !"); 3 usages
    JLabel 12=new JLabel( text: "ID:"); 3 usages
    JLabel 13=new JLabel( text: "Name:"); 3 usages
    JLabel 14=new JLabel( text: "Address:"); 3 usages
    JLabel 15=new JLabel( Text: "How many products you want to add to your cart ?"); 3 usages
        this.setVisible(true);
        this.setResizable(false);
        this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        n.setBackground(Color.pink);
```

```
11.setFont(new Font( name. "Welcome to the E-Commerce System!",Font.PLAIN, size. 20));
n.add(ll);

12.setFont(new Font( name. "10:",Font.PLAIN, size. 20));
n.add(l2);
13.setFont(new Font( name. "10:",Font.PLAIN, size. 20));
n.add(l1);

13.setFont(new Font( name. "Name:",Font.PLAIN, size. 20));
n.add(l1);

13.setFont(new Font( name. "Name:",Font.PLAIN, size. 20));
n.add(l2);
12.setBounds( × 200, y 150, width 200, height 30);
13.setFont(new Font( name. "Name:",Font.PLAIN, size. 20));
n.add(l2);

14.setBounds( × 200, y 150, width 200, height 30);
14.setFont(new Font( name. "Address:",Font.PLAIN, size. 20));
n.add(l4);
15.setBounds( × 200, y 200, width 200, height 30);
n.add(l3);

15.setBounds( × 100, y 200, width 200, height 30);
n.add(l3);
15.setFounds( × 100, y 200, width 200, height 30);
n.add(l3);
15.setFounds( × 15, y 300, width 200, height 30);
n.add(l5);
15.setFounds( × 15, y 300, width 200, height 30);
n.add(l5);
15.setFounds( × 15, y 300, width 200, height 30);
n.add(l5);
15.setFounds( × 15, y 300, width 200, height 30);
n.add(l5);
15.setFounds( × 15, y 300, width 200, height 30);
n.add(l5);
15.setFounds( × 160, y 400, width 150, height 30);
n.add(l5);
16.setFounds( × 160, y 400, width 150, height 30);
h.setFounds( × 160, y 400, width 150, height 30);
h.setFounds( × 160, y 400, width 150, height 30);
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h.setFounds( × 160, y 400, width 150, height 30);
h.setFounds( × 160, y 400, width 150, height 30);
h.setFounds( × 160, y 400, width 150, height 30);
h.setFounds( × 160
```

## **Class Product List:**

```
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.*;
public class ProductList extends JFrame implements ActionListener{ 2 usages
  private int ind=0; no usages
   protected Cart cart; 1usage
    EcommerceSystemGUI e1=new EcommerceSystemGUI(); no usages
    JPanel panel1 = new JPanel(); no usages
   JPanel panel2 = new JPanel(); no usages
   JLabel label2 = new JLabel( text: "$599.99"); 3 usages
   JButton b1 = new JButton( text: " Add "); 5 usages
   JButton b2 = new JButton( text: " Remove "); 5 usages
   JLabel label7=new JLabel(); 9 usages
    JLabel label4 = new JLabel( text: "$19.99"); 3 usages
    JButton b3 = new JButton( text: " Add "); 5 usages
    JButton b4 = new JButton( text: " Remove "); 5 usages
    JLabel label8=new JLabel(); 9 usages
```

```
JButton b5 = new JButton( text: " Add "); 5 usages
 JButton b6 = new JButton( text: " Remove "); 5 usages
JLabel label9=new JLabel(); 9 usages
JLabel label10=new JLabel(); 1usage
JButton button=new JButton( text: "Place Order"); 6 usages
public void setCart(Cart c) { this.cart=c; }
    this.setTitle("Products");
    this.setResizable(false);
    this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    label7.setBackground(Color.PINK);
    label7.setOpaque(true);
    label8.setBackground(Color.PINK);
     label8.setOpaque(true);
     label8.setBounds( x: 480, y: 80, width: 150, height: 60);
     label9.setBackground(Color.PINK);
     label9.setOpaque(true);
     label9.setBounds( x: 1120, y: 80, width: 150, height: 60);
```

```
label1.setBounds( x 200, y 20, width 100, height 80);
label1.setFont(new Font( name. "SmartPhone", Font.BOLD, size 15));
label2.setBounds( x 40, y 20, width 100, height 80);
label2.setFont(new Font( name. "$599.90", Font.BOLD, size 15));
label2.setBounds( x 200, y 100, width 100, height 50);
bl.setBounds( x 200, y 100, width 100, height 50);
bl.setBounds( x 200, y 100, width 100, height 50);
bl.setFoneground(Color.LIGHT_GRAY);
bl.setForeground(Color.RHITE);
label7.add(bl);

b2.setBounds( x 30, y 100, width 130, height 50);
b2.setBounds( x 30, y 100, width 130, height 50);
b2.setBounds( x 30, y 100, width 130, height 50);
b2.setForeground(Color.RHITE);
label7.add(b2);
b2.setForeground(Color.RHITE);
label7.add(b2);
button.setBounds( x 100, y 80, width 30, height 50);
button.setBounds( x 100, y 80, width 30, height 50);
button.setFont(new Font( name. "Place Order", Font.BOLD, size 15));
label3.setFont(new Font( name. "T-Shirt", Font.BOLD, size 15));
label3.setFont(new Font( name. "T-Shirt", Font.BOLD, size 15));
label8.add(label3);

label4.setBounds( x 60, y 20, width 100, height 80);
label4.setFont(new Font( name. "$19.99", Font.BOLD, size 15));
label8.add(label4);
```

```
label9.add(b6);

138
139
140
this.setLayout(new GridLayout( rows 4, cols 1, hgap: 10, vgap: 1));
this.add(label7); this.add(label8); this.add(label9); this.add(button);

142
143
144
button.addActionListener( E this);

145
146
187

QOverride
public void actionPerformed(ActionEvent e) {

150
151
151
152
153
154
155
}
156
157
}
158
```

#### **Class Order Place:**

```
import javax.swing.*;
public class OrderPlace extends JFrame { 1usage
    JPanel panel1=new JPanel(); 9 usages
   JLabel label1=new JLabel( text: "Here 's your order 's summary"); 3 usages
   JLabel label3=new JLabel( text: "Customer ID : "); 3 usages
   JButton button=new JButton( text: "OK"); 2 usages
        this.setVisible(true);
        this.setResizable(false);
        this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        panel1.setBackground(Color.WHITE);
        label1.setBounds( x: 100, y: 0, width: 500, height: 100);
        label1.setFont(new Font( name: "Here 's your order 's summary", Font. BOLD, size: 20));
```

```
label3.setBounds( x 80, y: 80, width: 150, height: 100);
label3.setFont(new Font( name: "Customer ID : ",Font.ITALIC, size: 20));
panel1.add(label3);

label4.setBounds( x 80, y: 120, width: 150, height: 100);
label4.setFont(new Font( name: "Products : ",Font.ITALIC, size: 20));
panel1.add(label4);

label5.setBounds( x 80, y: 350, width: 150, height: 80);
label5.setFont(new Font( name: "Total Price : $ ",Font.ITALIC, size: 20));
panel1.add(label5);

button.setBounds( x 200, y: 450, width: 80, height: 50);
panel1.add(button);

}
```

### The main class:

```
for(int i=0;idMath.abs(nProducts);i++){

System.out.println("Minich product would you like to add? 1- smartphone 2- T-shirt 3- 00P");

int producthoice=in.nextInt();

smitch(producthoice){

case 1:

    cart.addProduct(smartphone, i);
    break;

case 2:

cart.addProduct(TShirt, i);
    break;

default:

    system.out.println("Invalid choice. Please try again.");

    i--;

}

System.out.println("Your total is $"+cart.calculatePrice()+" Would you like to place the order? 1-Yes 2- No");

int c=in.nextInt();

if(c=z)){

    Order order=new Order(customerId, orderedMc 1, cart.getProducts());
    order.printOrderInfo();
}else{

    System.out.println("Order not placed.");
}

System.out.println("Order not placed.");
}
```

```
//Run GUI

//Run GUI

//EcommerceSystemGUI E1=new EcommerceSystemGUI();

// ProductList p1=new ProductList();

// OrderPlace o1=new OrderPlace();

// OrderPlace o1=new OrderPlace();

// OrderPlace o1=new OrderPlace();
```

## The out put:

```
Ren ECommerceSystem ×

| Compare Files | was | | was
```

## The out put of GUI:





