

Pr... xFilesServices

eCommerce

Product - Navigator x

Members v... v

Product

- Product()
- Product(int productId, S
- getName() : String
- getPrice() : float
- getProductId() : int
- setName(String name)
- setPrice(float price)
- setProductId(int product
- name : String
- price : float
- productId : int

SourceHistory

```
1  /*
2  * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3  * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
4  */
5  package ecommerce;
6  /**
7   *
8   * @author zeyad
9   */
10 public class Product {
11     private int productId;
12     private String name;
13     private float price;
14
15     public int getProductId() {
16         return productId;
17     }
18
19     public void setProductId(int productId) {
20         this.productId = Math.abs(productId);
21     }
22
23     public String getName() {
24         return name;
25     }
26
27     public void setName(String name) {
28         this.name = name;
29     }
30
31     public float getPrice() {
32         return price;
33     }
34
35     public void setPrice(float price) {
36         this.price = Math.abs(price);
37     }
38
39     public Product() {
40     }
41
42     public Product(int productId, String name, float price) {
43         this.productId = productId;
44         this.name = name;
45         this.price = price;
46     }
47 }
48
```

Output - eCommerce (run) x

>> run:

46:6OVR\Windows (CRLF)

Pr... xFilesServices

Product.java xElectronicProduct.java xBookProduct.java xCustomer.java xCart.java xOrder.java x

eCommerce

SourceHistory

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Next Bookmark

*/

*/ Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license

*/ Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template

*/

package ecommerce;

/**

*/

*/ @author zeyad

*/

public class ElectronicProduct extends Product {

private String brand;

private int 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 = Math.abs(warrantyPeriod);

}

public ElectronicProduct() {

}

public ElectronicProduct(String name, int productId, float price, String brand, int warrantyPeriod) {

super(productId, name, price);

this.brand = brand;

this.warrantyPeriod = warrantyPeriod;

}

}

Navigator x

Members v... v

ElectronicProduct :: Product

ElectronicProduct()

ElectronicProduct(String name, int productId, float price, String brand, int warrantyPeriod)

getBrand(): String

getWarrantyPeriod(): int

setBrand(String brand)

setWarrantyPeriod(int warrantyPeriod)

brand: String

warrantyPeriod: int

Output - eCommerce (run) x

>> run:

13:13INS Windows (CRLF)

Pr... x Files Services

Product.java x ElectronicProduct.java x BookProduct.java x Customer.java x Cart.java x Order.java x

Source History

1 /*
2 * Click [nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt](#) to change this license
3 * Click [nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java](#) to edit this template
4 */
5 package ecommerce;
6
7 /**
8 *
9 * @author zeyad
10 */
11 public class BookProduct extends Product {
12 private String author;
13 private String publisher;
14
15 public String getAuthor() {
16 return author;
17 }
18
19 public void setAuthor(String author) {
20 this.author = author;
21 }
22
23 public String getPublisher() {
24 return publisher;
25 }
26
27 public void setPublisher(String publisher) {
28 this.publisher = publisher;
29 }
30
31 public BookProduct() {
32 }
33
34 public BookProduct(String name, int productId, float price, String author, String publisher) {
35 super(productId, name, price);
36 this.author = author;
37 this.publisher = publisher;
38 }
39
40
41 }
42

BookProduct.java - ... x

Members

- BookProduct :: Product
 - BookProduct()
 - BookProduct(String name, int productId, float price)
 - getAuthor() : String
 - getPublisher() : String
 - setAuthor(String author) : void
 - setPublisher(String publisher) : void
 - author : String
 - publisher : String

Output - eCommerce (run) x

>> run:

Pr... xFilesServices

eCommerce

Customer.java - Nav... x

MembersMembers

Customer

Customer()

getAddress() : String

getCustomerId() : int

getName() : String

setAddress(String ad

setCustomerId(int cut

setName(String nam

address : String

customerId : int

name : String

SourceHistory

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/*

* Click [nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt](#) to change this license

* Click [nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java](#) to edit this template

*/

package ecommerce;

/**

*

* @author zeyad

*/

public class Customer {

private int customerId;

private String name;

private String address;

public int getCustomerId() {

return customerId;

}

public void setCustomerId(int customerId) {

this.customerId = Math.abs(customerId);

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getAddress() {

return address;

}

public void setAddress(String address) {

this.address = address;

}

}

Output - eCommerce (run) x

>>run:

42:1INSWindows (CRLF)

Pr... x Files Services

eCommerce

Source History

```
1  /*
2   * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3   * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
4   */
5   package ecommerce;
6   import java.util.Scanner;
7   //import java.util.ArrayList;
8   /**
9    *
10   * @author zeyad
11   */
12   public class Cart {
13       private int customerId;
14       private int nProducts;
15       private Product products[] = new Product[nProducts];
16
17       public int getCustomerId() {
18           return customerId;
19       }
20
21       public void setCustomerId(int customerId) {
22           this.customerId = Math.abs(customerId);
23       }
24
25       public int getnProducts() {
26           return nProducts;
27       }
28
29       public void setnProducts(int nProducts) {
30           this.nProducts = Math.abs(nProducts);
31       }
32
33       public Product[] getProducts() {
34           return products;
35       }
36
37       public void setProducts(Product[] products) {
38           this.products = products;
39       }
40
41       public Cart() {
42
43       }
44
45       public Cart(int customerId, int nProducts) {
46           this.customerId = Math.abs(customerId);
47           this.nProducts = Math.abs(nProducts);
48           this.products = new Product[nProducts];
49       }
50   }
```

Navigator x

Members

- Cart
 - Cart()
 - Cart(int customerId, int nProducts)
 - addProduct(Product)
 - calculatePrice() : float
 - getCustomerId() : int
 - getProducts() : Product[]
 - getnProducts() : int
 - placeOrder() : boolean
 - removeProduct(Product)
 - setCustomerId(int customerId)
 - setProducts(Product[])
 - setnProducts(int nProducts)
 - customerId : int
 - nProducts : int
 - products : Product[]

Output - eCommerce (run) x

>> run:

89:1 | INS | Windows (CRLF)

Pr... x Files Services —

Pr... x eCommerce

Source History

Product.java x ElectronicProduct.java x BookProduct.java x Customer.java x Cart.java x Order.java x

```
43 public Cart() {
44 }
45
46 public Cart(int customerId, int nProducts) {
47     this.customerId = Math.abs(customerId);
48     this.nProducts = Math.abs(nProducts);
49     this.products = new Product[nProducts];
50 }
51
52 public void addProduct(Product p, int i) {
53     products[i] = p;
54 }
55
56 public void removeProduct(Product p) {
57     for(int i=0; i<nProducts; i++) {
58         if(products[i] == p) {
59             for(int j=i; j<nProducts-1; j++) {
60                 products[j] = products[j+1];
61             }
62             products[nProducts-1] = null;
63             nProducts--;
64             System.out.println(""+p.getName()+" Removed Successfully !");
65             return;
66         }
67     }
68     System.out.println(""+p.getName()+" is NOT found in cart !");
69 }
70
71 public float calculatePrice() {
72     float total = 0;
73     for(int i=0; i<nProducts; i++) {
74         total += products[i].getPrice();
75     }
76     return total;
77 }
78
79 public boolean placeOrder() {
80     Scanner input = new Scanner(System.in);
81     while(true){
82         System.out.println("Would you like to place an order? 1- Yes 2- No");
83         int n = input.nextInt();
84         if(n == 1) return true;
85         if(n == 2) return false;
86     }
87 }
88
89 }
```

Navigator x

Members

Cart

- Cart()
- Cart(int customerId, int nProducts)
- addProduct(Product p, int i)
- calculatePrice() : float
- getCustomerId() : int
- getProducts() : Product[]
- getnProducts() : int
- placeOrder() : boolean
- removeProduct(Product p)
- setCustomerId(int customerId)
- setProducts(Product[] products)
- setnProducts(int nProducts)

customerId : int

nProducts : int

products : Product[]

Output - eCommerce (run) x

>> run:

89:1 | INS | Windows (CRLF)

Pr... xFilesServices

eCommerce

Order.java - Naviga... x

MembersMembers

Order

Order()

Order(int customerId, in

getCustomerId(): int

getOrderId(): int

printOrderInfo(Cart c)

setCustomerId(int custo

setOrderId(int orderId)

customerId: int

orderId: int

products: Product[]

SourceHistory

```
4  */
5  package ecommerce;
6
7  /**
8   *
9   * @author zeyad
10  */
11  public class Order {
12
13      private int customerId;
14      private int orderId;
15      private Product products[];
16
17      public int getCustomerId() {
18          return customerId;
19      }
20
21      public void setCustomerId(int customerId) {
22          this.customerId = customerId;
23      }
24
25      public int getOrderId() {
26          return orderId;
27      }
28
29      public void setOrderId(int orderId) {
30          this.orderId = orderId;
31      }
32
33      public Order() {
34      }
35
36      public Order(int customerId, int orderId, Product[] products) {
37          this.customerId = customerId;
38          this.orderId = orderId;
39          this.products = products;
40      }
41
42      public void printOrderInfo(Cart c) {
43          System.out.println("Here's your order's summary:");
44          System.out.println("Order ID: " + getOrderId());
45          System.out.println("Customer ID: " + getCustomerId());
46          System.out.println("Products:");
47          for (Product product : products) {
48              if(product == null) break;
49              System.out.println("'" + product.getName() + " - $" + product.getPrice());
50          }
51          System.out.println("Total Price: $" + c.calculatePrice());
52      }
53  }
```

Output - eCommerce (run) x

>> run:

54:1INS | Windows (CRLF)

Pr... x Files Services

eCommerce

main - Navigator x

Members ...

ECommerce

- ECommerce()
- main(String[] args)

ECommerce.java x Product.java x ElectronicProduct.java x BookProduct.java x Customer.java x Cart.java x Order.java x

```
10  *
11  * @author zeyad
12  */
13  public class ECommerce {
14
15      /**
16       * @param args the command line arguments
17       */
18      public static void main(String[] args) {
19          // TODO code application logic here
20          ElectronicProduct p1 = new ElectronicProduct("smartphone", 1, 599.9f, "Samsung", 1);
21          ClothingProduct p2 = new ClothingProduct("T-shirt", 2, 19.99f, "Medium", "Cotton");
22          BookProduct p3 = new BookProduct("OOP", 3, 39.99f, "O'Reilly", "X Publications");
23          Customer c1 = new Customer();
24          Cart cart = new Cart();
25
26          System.out.println("Welcome to the E-Commerce System!");
27          System.out.println("Enter your ID: ");
28
29          Scanner input = new Scanner(System.in);
30          int temp2 = input.nextInt();
31          c1.setCustomerId(temp2);
32
33          System.out.println("Enter your name: ");
34          String temp = input.next();
35          c1.setName(temp);
36
37          System.out.println("Enter your address: ");
38          temp = input.next();
39          c1.setAddress(temp);
40
41          System.out.println("How many products you want to add to your cart?");
42          temp2 = input.nextInt();
43          cart.setnProducts(temp2);
44
45          Product[] arr = new Product[cart.getnProducts()];
46          cart.setProducts(arr);
47
48          for(int i=0; i<cart.getnProducts(); i++) {
49              System.out.println("Wich product would you like to add? 1- " + p1.getName() + " 2- " + p2.getName() + " 3- " + p3.getName());
50              int t = input.nextInt();
51              switch (t){
52                  case 1:
53                      cart.addProduct(p1, i);
54                      System.out.println(p1.getName() + " Added to Cart!");
55                      break;
56                  case 2:
57                      cart.addProduct(p2, i);
58                      System.out.println(p2.getName() + " Added to Cart!");
59                      break;
60                  case 3:
61                      cart.addProduct(p3, i);
```

Output x

70:9 INS Windows (CRLF)

Pr... x Files Services

Product.java x ElectronicProduct.java x BookProduct.java x Customer.java x Cart.java x Order.java x

main - Navigator x

Members v ... v

ECommerce

ECommerce()

main(String[] args)

Output x

```
52     case 1:
53         cart.addProduct(p1, i);
54         System.out.println(p1.getName() + " Added to Cart!");
55         break;
56     case 2:
57         cart.addProduct(p2, i);
58         System.out.println(p2.getName() + " Added to Cart!");
59         break;
60     case 3:
61         cart.addProduct(p3, i);
62         System.out.println(p3.getName() + " Added to Cart!");
63         break;
64     default:
65         System.out.println("Product Not Found!");
66         i--;
67         break;
68     }
69 }
70
71 boolean p = true;
72 while (p) {
73     System.out.println("Your Total is $" + cart.calculatePrice());
74     if (cart.placeOrder()) {
75         Order order = new Order(cl.getCutomerId(), l, cart.getProducts());
76
77         order.printOrderInfo(cart);
78         p = false;
79     }
80     else {
81         System.out.println("Wich product would you like to remove? 1- " + p1.getName() + " 2- " + p2.getName() + " 3- " + p3.getName());
82
83         int t = input.nextInt();
84         switch (t) {
85             case 1:
86                 cart.removeProduct(p1);
87                 break;
88             case 2:
89                 cart.removeProduct(p2);
90                 break;
91             case 3:
92                 cart.removeProduct(p3);
93                 break;
94             default:
95                 System.out.println("Product Not Found!");
96                 break;
97         }
98     }
99 }
100 }
101 }
102 }
103 }
```

70:9 INS Windows (CRLF)

Pr... xFilesServices

eCommerce

main - Navigator x

Members

ECommerce

ECommerce()

main(String[] args)

ECommerce.java xProduct.java xElectronicProduct.java xBookProduct.java xCustomer.java xCart.java xOrder.java x

```
10
11
12
13 public class ECommerce {
14
15
16
17
```

Output - eCommerce (run) x

run:

Welcome to the E-Commerce System!

Enter your ID:

23011268

Enter your name:

ZIAD

Enter your adress:

mandara

How many products you want to add to your cart?

3

Wich product would you like to add? 1- smartphone 2- T-shirt 3- OOP

0

Product Not Found!

Wich product would you like to add? 1- smartphone 2- T-shirt 3- OOP

1

smartphone Added to Cart!

Wich product would you like to add? 1- smartphone 2- T-shirt 3- OOP

2

T-shirt Added to Cart!

Wich product would you like to add? 1- smartphone 2- T-shirt 3- OOP

3

OOP Added to Cart!

Your Total is \$659.88

Would you like to place an order? 1- Yes 2- No

2

Wich product would you like to remove? 1- smartphone 2- T-shirt 3- OOP

3

OOP Removed Successfully !

Your Total is \$619.89

Would you like to place an order? 1- Yes 2- No

9

Would you like to place an order? 1- Yes 2- No

1

Here's your order's summary:

Order ID: 1

Customer ID: 23011268

Products:

smartphone - \$599.9

T-shirt - \$19.99

Total Price: \$619.89

BUILD SUCCESSFUL (total time: 58 seconds)

70:9INS

ENG10:41 PM4/22/2024