

## Screenshots in the latest bages

### Product class

```
package project.sixth;

public class Product {
    protected int productId;
    protected String name;
    protected float price;
    public Product(){
    }
    public Product(int productId, String name, float price){
        this.productId=Math.abs(productId);
        this.name=name;
        this.price=Math.abs(price);
    }

    public void setProductId(int productId) {
        this.productId = Math.abs(productId);
    }

    public void setName(String name) {
        this.name = name;
    }

    public void setPrice(float price) {
        this.price = Math.abs(price);
    }

    public int getProductId() {
        return productId;
    }

    public String getName() {
        return name;
    }

    public float getPrice() {
        return price;
    }
}
```

```
}
```

## Order class

```
package project.sixth;

public class Order {
    protected int customerId;
    protected int orderId=1;
    protected Product []products;

    public void printOrderInfo(Cart cart, Customer customer){
        System.out.println(Math.abs(orderId));
        System.out.println(customer.customerId);
        System.out.println("Products :");
        for(int i=0;i<cart.products.length;i++){
            System.out.println(cart.products[i].getName()+" - "+cart.products[i].getPrice());
        }
        System.out.println("Total price : $" + cart.calculatePrice());
    }
}
```

## ElectronicProduct class

```
package project.sixth;

public class ElectronicProduct extends Product {
    String brand;
    int warrantyPeriod;

    public ElectronicProduct(int productId, String name, float price, String brand, int warrantyPeriod){
        super(productId,name,price);
        this.brand=brand;
        this.warrantyPeriod=Math.abs(warrantyPeriod);
    }

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

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

    public String getBrand() {
        return brand;
    }

    public int getWarrantyPeriod() {
        return warrantyPeriod;
    }
}
```

## Customer class

```
package project.sixth;

public class Customer {
    protected int customerId;
    protected String name;
    protected String address;

    public Customer(){}
    public Customer(int customerId, String name , String address){
        this.customerId=customerId;
        this.name=name;
        this.address=address;
    }

    public void setCustomerId(int customerId) {
        this.customerId = customerId;
    }

    public void setName(String name) {
        this.name = name;
    }

    public void setAddress(String address) {
        this.address = address;
    }

    public int getCustomerId() {
        return customerId;
    }
}
```

```

    }

    public String getName() {
        return name;
    }

    public String getAddress() {
        return address;
    }
}

```

## ClothingProduct class

```

package project.sixth;

public class ClothingProduct extends Product {
    String size;
    String fabric;

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

    public void setFabric(String fabric) {
        this.fabric = fabric;
    }

    public void setSize(String size) {
        this.size = size;
    }

    public String getSize() {
        return size;
    }
}

```

```
    public String getFabric() {  
        return fabric;  
    }  
}
```

## BookProduct class

```
package project.sixth;  
  
public class BookProduct extends Product {  
    String author;  
    String publisher;  
  
    public BookProduct(int productId, String name, float price, String author, String  
publisher){  
        super(productId,name,price);  
        this.author=author;  
        this.publisher=publisher;  
    }  
  
    public void setPublisher(String publisher) {  
        this.publisher = publisher;  
    }  
  
    public void setAuthor(String author) {  
        this.author = author;  
    }  
  
    public String getAuthor() {
```

```
        return author;
    }

    public String getPublisher() {
        return publisher;
    }
}
```

## Cart class

```
package project.sixth;

public class Cart {
    protected int customerId;
    public int nProducts;
    protected Product products[];

    Cart(){}
    Cart(int getnProducts) {
        this.nProducts=getnProducts;
        this.products=new Product[nProducts];
    }

    public void setCustomerId(int customerId) {
        this.customerId = customerId;
    }

    public void setProducts(Product[] products) {
```

```

        this.products = products;
    }

    public void setnProducts(int nProducts) {
        this.nProducts = nProducts;
    }

    public int getCustomerId() {
        return customerId;
    }

    public int getnProducts() {
        return nProducts;
    }

    public Product[] getProducts() {
        return products;
    }

    public void addProduct(Product product) {
        for (int i=0; i < products.length; i++) {
            if (products[i] == null) {
                products[i]=product;
                break;
            }
        }
    }

    public Product removeProduct(Product removing){
        for(int i=0;i<nProducts;i++){
            if (products[i]==removing){
                products[i]=null;
                break;
            }
        }
        return removing;
    }

    String calculatePrice(){
        float sum=0;
        for (int i=0;i<getnProducts();i++){
            sum=sum+products[i].getPrice();
        }
        return Float.toString(sum);
    }

    public void placeOrder(){
        System.out.println("Here is your order S summary:");
    }
}

```



# JavaFX

## HelloController class

```
package project.sixth;

import javafx.event.ActionEvent;
import javafx.fxml.FXML;
import javafx.fxml.FXMLLoader;
import javafx.scene.Node;
import javafx.scene.Parent;
import javafx.scene.Scene;
import javafx.scene.control.Label;
import javafx.scene.control.ListView;
import javafx.scene.control.TextField;
import javafx.scene.input.MouseEvent;

import javafx.stage.Stage;

import java.io.IOException;

public class HelloController {

    @FXML
    private ListView<String> listname;
    @FXML
    TextField customeridTextField;
    @FXML
    TextField nameTextField;
    @FXML
    TextField addressTextField;

    @FXML
    TextField nProductsTextField;
```

```

@FXML
TextField productnameTextField;
@FXML
private Label myLabel;
@FXML
private Label saveLabel;
private Stage stage;
private Scene scene;

Cart order=new Cart(5);
ElectronicProduct obj1=new ElectronicProduct(1,"smartphone",599.9F,"Samsung",1);
ClothingProduct obj2=new ClothingProduct(2,"Tshirt",19.99F,"Medium","Cotton");
BookProduct obj3=new BookProduct(3,"OOP",39.99F,"O,Reilly","X Publications");

public void save(MouseEvent event){
    order.setnProducts(Integer.parseInt(nProductsTextField.getText()));
    saveLabel.setText("Saved");
}

```

```

@FXML
void addname(MouseEvent event) throws IOException {

    if(productnameTextField.getText().equals("smartphone")){
        listname.getItems().add(productnameTextField.getText()+" $599.9");
        order.addProduct(obj1);}
    else if(productnameTextField.getText().equals("T-shirt")){
        listname.getItems().add(productnameTextField.getText()+" $19.99");
        order.addProduct(obj2);}
    }else if(productnameTextField.getText().equals("OOP")){
        listname.getItems().add(productnameTextField.getText()+"$39.99");
        order.addProduct(obj3);}
    }else{
        myLabel.setText("Pls enter avalaible product");
    }

}

@FXML

```

```

        void removename(MouseEvent event) {
            int selectID=listname.getSelectionModel().getSelectedIndex();
            listname.getItems().remove(selectID);
        }

        @FXML
        public void placeOrder(ActionEvent event) throws IOException {
            int ID=Integer.parseInt(customeridTextField.getText());
            String name=nameTextField.getText();
            String address=addressTextField.getText();

            FXMLLoader loader = new FXMLLoader(getClass().getResource("hello-
view2.fxml"));
            Parent root;
            root = loader.load();
            HelloController2 helloController2 = loader.getController();
            helloController2.displayInfo(order,ID,name,address);

            stage = (Stage) ((Node) event.getSource()).getScene().getWindow();
            scene = new Scene(root);
            stage.setScene(scene);
            stage.show();
        }
    }
}

```

## HelloControler2 class

```

package project.sixth;

import javafx.event.ActionEvent;
import javafx.fxml.FXML;
import javafx.scene.Scene;
import javafx.scene.control.Button;

```

```

import javafx.scene.control.Label;
import javafx.scene.control.ListView;
import javafx.scene.control.TextArea;
import javafx.scene.input.MouseEvent;
import javafx.scene.layout.AnchorPane;
import javafx.stage.Stage;

public class HelloController2 {
    private Button LogoutButton;
    private AnchorPane scenePane;
    Stage stage;

    @FXML
    private ListView<String> listorder;
@FXML
    private Label myLabel;

@FXML
    public void displayInfo(Cart cart,int ID,String name,String address){
        Customer customer=new Customer(ID,name,address);
        Order data=new Order();
        float sum=0;
        for (int i=0;i<cart.nProducts;i++){
            if (cart.products[i]==null){
                break;
            }
            sum+=cart.products[i].getPrice();
        }
        listorder.getItems().add("Customer ID \t"+(customer.customerId));
        for (int i=0;i<cart.nProducts;i++) {
            if (cart.products[i]==null){
                break;
            }
            listorder.getItems().add((cart.products[i].getName())+" - $" +
(cart.products[i].getPrice()));
        }
        listorder.getItems().add("Total Price : "+sum);
    }

    public void logout(ActionEvent event){
        stage=(Stage) scenePane.getScene().getWindow();
        System.out.println("You successfully logged out!");
        stage.close();
    }

}

```

## EcommerceSystem class

```
package project.sixth;

import javafx.application.Application;
import javafx.fxml.FXMLLoader;
import javafx.scene.Scene;
import javafx.stage.Stage;

import java.io.IOException;

public class EcommerceSystem extends Application {
    @Override
    public void start(Stage stage) throws IOException {
        FXMLLoader fxmlLoader = new FXMLLoader(EcommerceSystem.class.getResource("hello-view.fxml"));
        Scene scene = new Scene(fxmlLoader.load(), 750, 400);
        stage.setTitle("EcommerdeSystem");
        stage.setScene(scene);
        stage.show();
    }

    public static void main(String[] args) {
        launch();
    }
}
```

Project by GUI

EcommerceSystem

Welcome to the E-Commerce System

please enter your id

Please enter your name

Please enter your address

How many products you want to add to your cart ?

submit

Available product

1-smartphone

2-T-shirt

3-OOP

Enter product name

Add

Remove

Placeorder

EcommerceSystem

2

Welcome to the E-Commerce System

please enter your id

23011563

Please enter your name

Monzer mahmoud yousri

Please enter your address

address

How many products you want to add to your cart ?

4

submit

Saved

Available product

1-smartphone

2-T-shirt

3-OOP

Enter product name

Add

Remove

OOP\$39.99

T-shirt \$19.99

smartphone \$599.9

smartphone \$599.9

Placeorder

EcommerceSystem

2

Here is your order,s summary :

order ID : 1

Customer ID 23011563

OOP - \$39.99

Tshirt - \$19.99

smartphone - \$599.9

smartphone - \$599.9

Total Price : \$1259.78

Logout