

OOSD2 - Assignment

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Introduction

This is my submission for Object Oriented Systems Development 2 assignment. The assignment is to build a GUI application for a Motorcycle sales company. This application is built using Java programming language. I have used the swing library to build the application.

Classes in Java

There are 14 classes including the JFrame classes.

1. AddNewCycle.java
2. AdminView.java
3. ClerkView.java
4. Company.java
5. Customer.java
6. CustomerView.java
7. Individual.java
8. Login.java
9. MotorCycle.java
10. NewCustomer.java
11. PriceCalculate.java
12. Purchase.java
13. SafeAutoGalore.java

Apart from the above classes, I have also written a JUnit Test class for testing the PriceCalculation methods.

Here is a screenshot of JUnit Test cases. There are 3 test cases.

```
* @author salaam
*/
public class Testing {

    public Testing() {

    }

    // Test for discount calculation
    @Test
    public void discountTest(){
        PriceCalculate pc = new PriceCalculate(1000.00, 10.00, 5);

        assertEquals(50.0, pc.calculateDiscount());

    }

    // Test for tax calculation
    @Test
    public void taxTest(){
        PriceCalculate pc = new PriceCalculate(1000.00, 10.00, 5);

        assertEquals(100.0, pc.calculateTax());

    }

    // Total price calculation
    @Test
    public void totalTest(){
        PriceCalculate pc = new PriceCalculate(1000.00, 10.00, 5);

        assertEquals(1150.00, pc.getTotal());

    }

}
```

This is the login Frame

The image shows a login window titled "Safe Auto Galore - Login". The window has a dark gray title bar with standard window controls (minimize, maximize, close) on the right. The main content area has a blue header with the word "Login" in white. Below the header, the background is light blue. There are two input fields: "user/email" and "Password". The "user/email" field has a small vertical line in the input box. Below the input fields are two buttons: "Login" and "Cancel".

Safe Auto Galore - Login

Login

user/email

Password

Login Cancel

This is a screenshot of the CustomerView Frame

Safe Auto Galore

Welcome to Safe Auto Galore,

Select

Item 1

Name

Brand

Engine Capacity

Manf. Year

Price

bikeName

bikeBrand

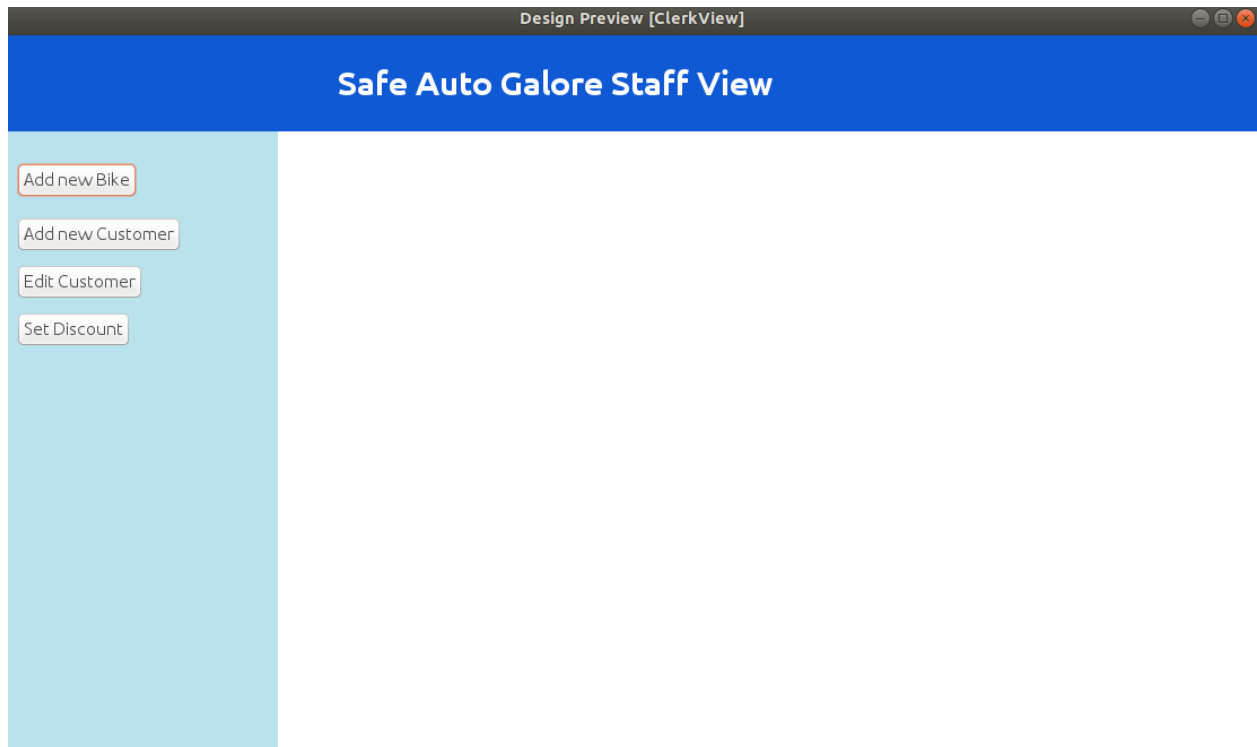
bikeEngine

bikeYear

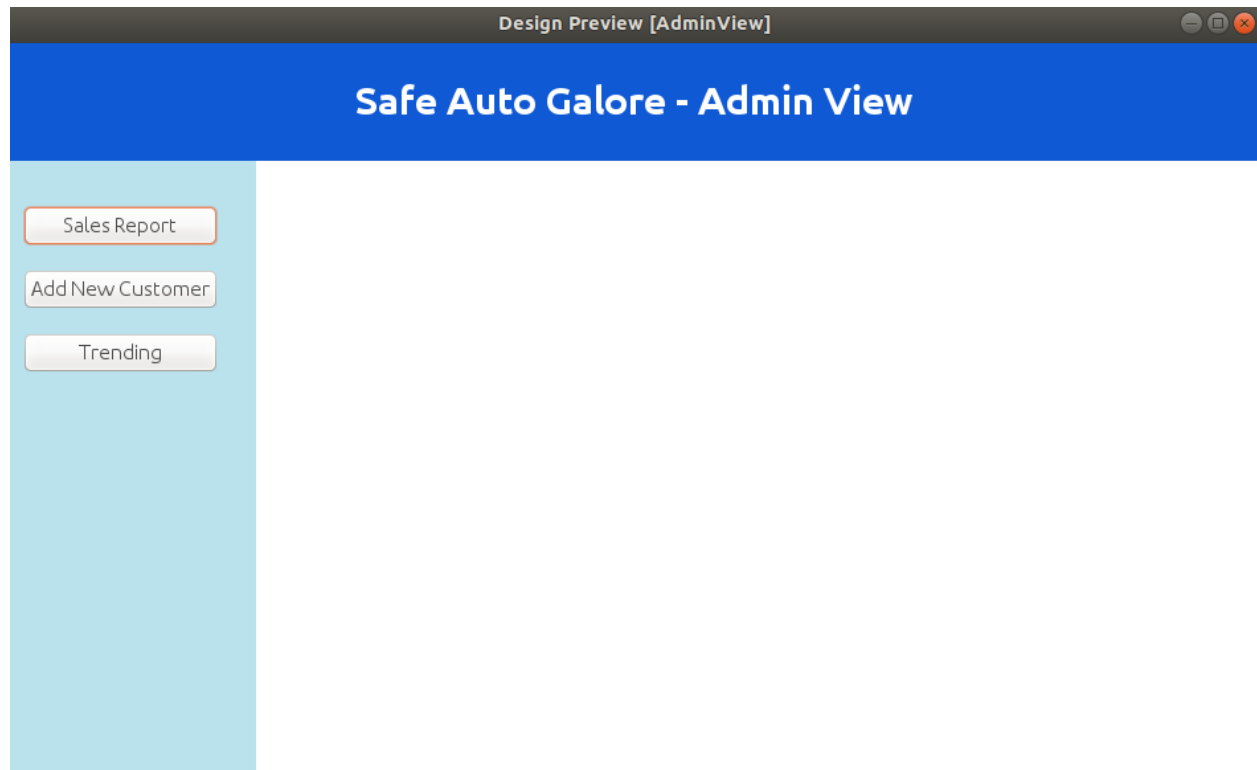
bikePrice

Buy

Staff View JFrame



Admin View JFrame



Thank you!