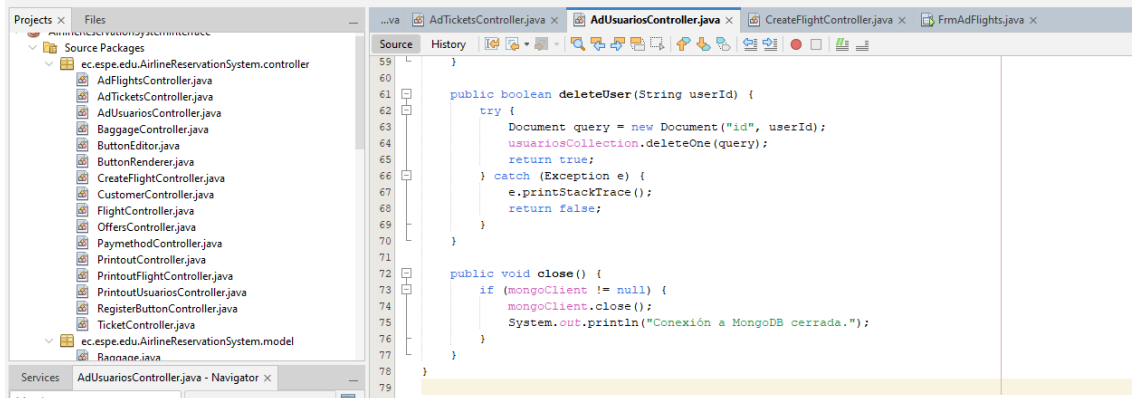


HW23 – SOLID Principles

1. Liskov Substitution Principle



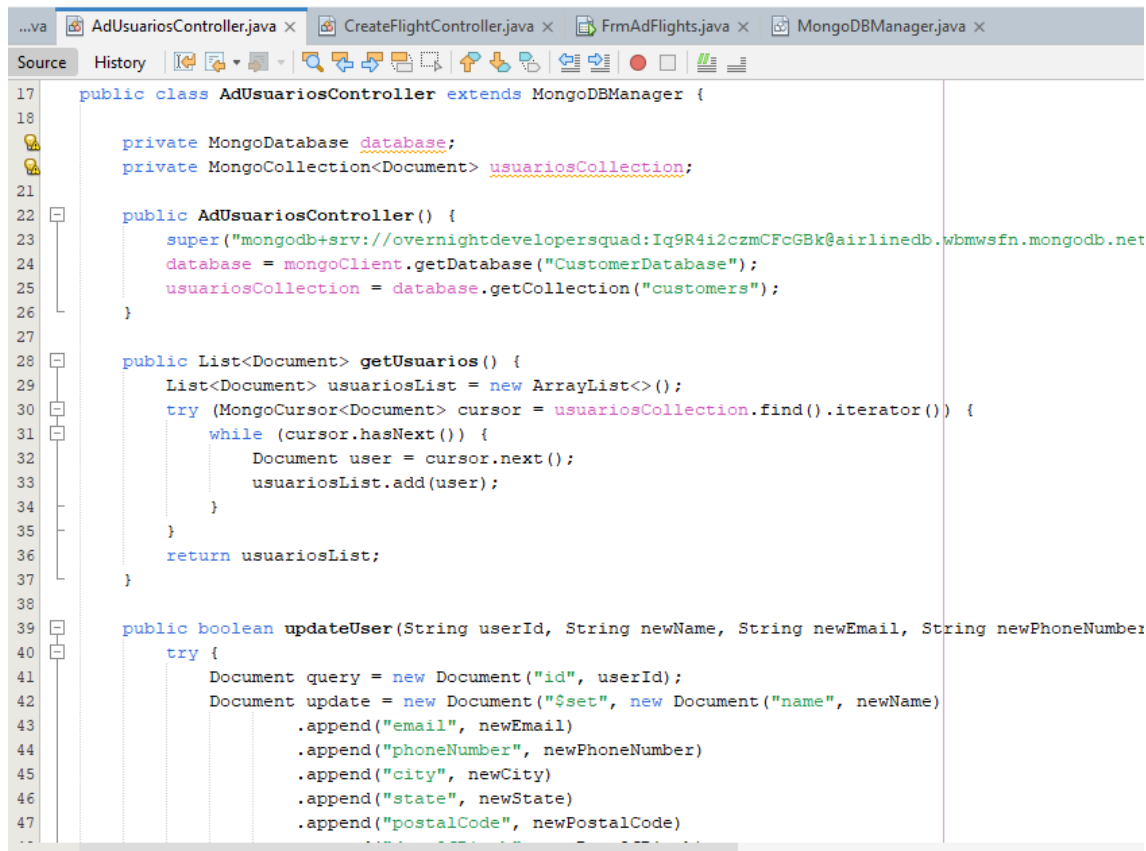
Explanation:

In this class and in two others we repeat code to close the connection to the database which does not make it reusable.

Possible solution:

Create an abstract class with the method that is repeated and implement it in each of the classes adding the code that you needed applying the Liskov Substitution principle.

2. Liskov Substitution Principle



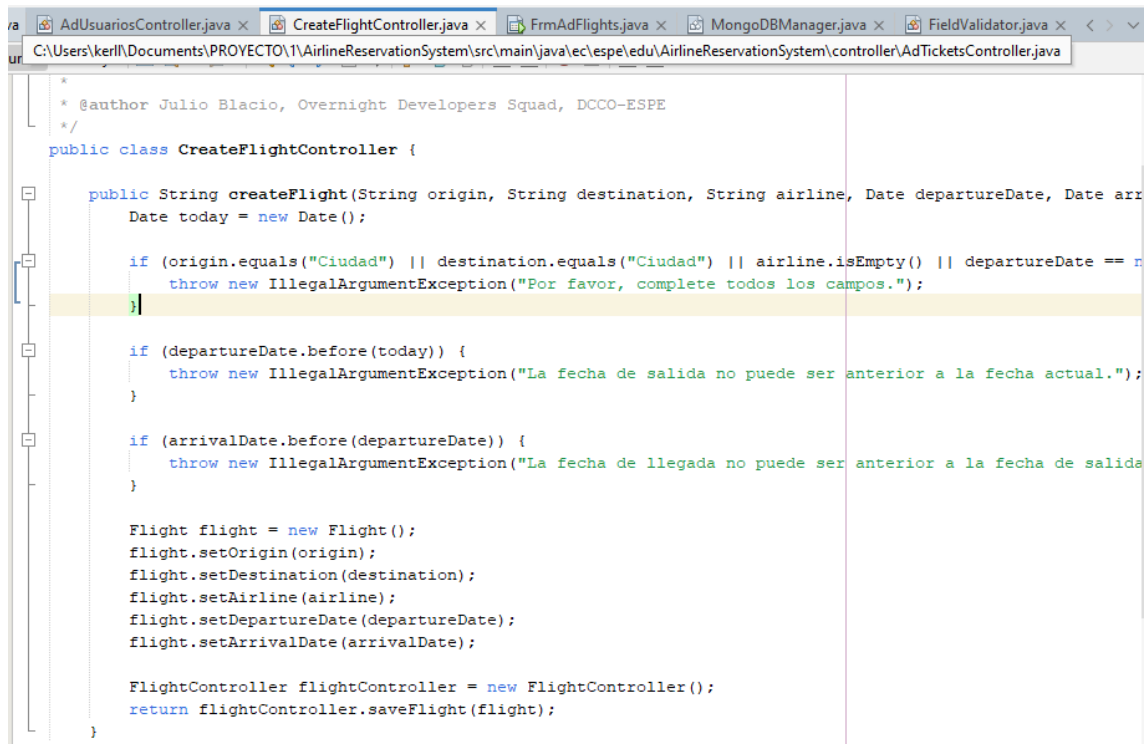
Explanation:

In this class, and like the other two previous ones, code was repeated that in the end could not be reused.

Possible solution:

In the class I created previously, the methods for updating and deleting documents could be increased, which would help to better structure the classes.

3. Single Responsibility Principle



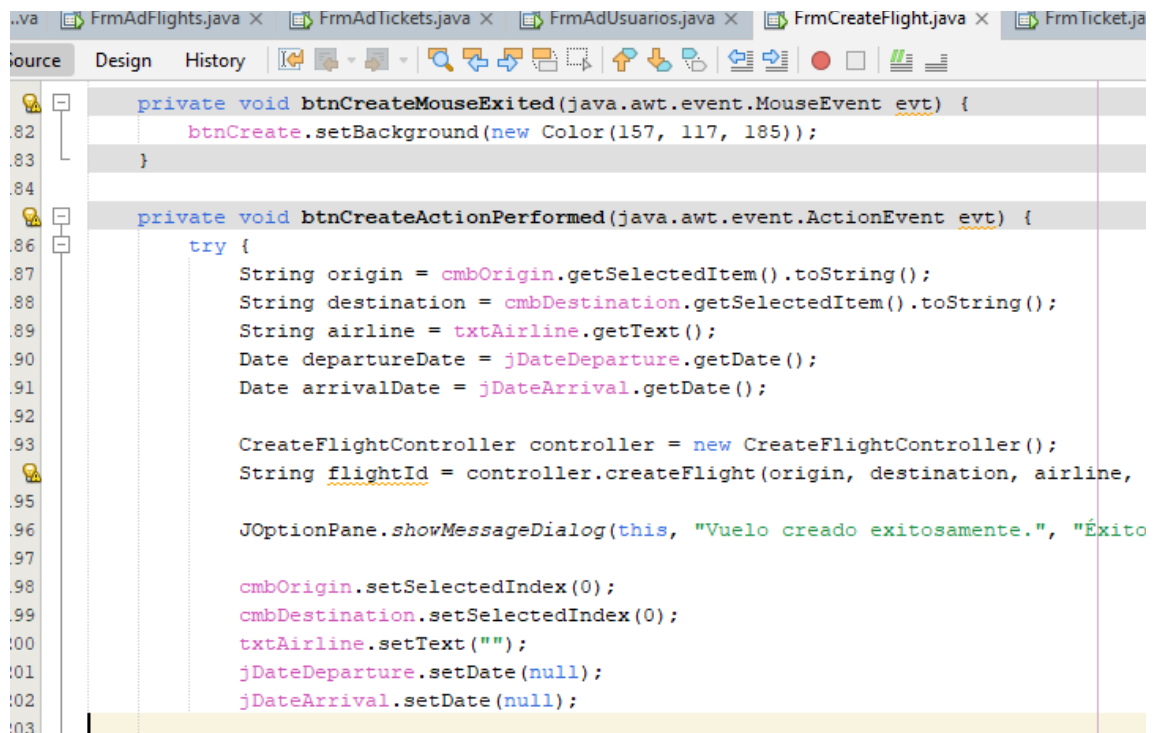
Explanation:

This code violates the principle of single responsibility since this function should only create the flight but not validate its fields.

Possible solution:

Move the field validation code to a class in utils to only call it in this class and thus keep this function clean.

4. Single Responsibility Principle



```
private void btnCreateMouseExited(java.awt.event.MouseEvent evt) {  
    btnCreate.setBackground(new Color(157, 117, 185));  
}  
  
private void btnCreateActionPerformed(java.awt.event.ActionEvent evt) {  
    try {  
        String origin = cmbOrigin.getSelectedItem().toString();  
        String destination = cmbDestination.getSelectedItem().toString();  
        String airline = txtAirline.getText();  
        Date departureDate = jDateDeparture.getDate();  
        Date arrivalDate = jDateArrival.getDate();  
  
        CreateFlightController controller = new CreateFlightController();  
        String flightId = controller.createFlight(origin, destination, airline,  
  
        JOptionPane.showMessageDialog(this, "Vuelo creado exitosamente.", "Éxito  
  
        cmbOrigin.setSelectedIndex(0);  
        cmbDestination.setSelectedIndex(0);  
        txtAirline.setText("");  
        jDateDeparture.setDate(null);  
        jDateArrival.setDate(null);  
    }  
}
```

Explanation:

In this code we give the button more actions than it should have and we overload it.

Possible solution:

Create a class with a function that clears the fields and only makes a call to the button.