Airport Management System

Contents

1.Login class :

A login algorithm under Login.java class with two methods: signup & Login.

>Signup:

```
//this method is for adding new users in the database
private void signupbtnActionPerformed(java.awt.event.ActionEvent evt) {
    try{
        Connection con = DriverManager.getConnection("jdbc:derby://localhost:1527/samer", "samer", "samer");
        String querry = "insert into LOGIN values(?,?)";
        PreparedStatement stmt = con.prepareStatement(querry);

            String name = username.getText();//get username from textfield
            String password = pass.getText();//get password from textfield

            stmt.setString(1, name);//insert username in LOGIN table
            stmt.setString(2, password);//insert password in LOGIN table

            stmt.execute();//execute querry
            JOptionPane.showMessageDialog(null, "Thank you for your registration "+name+", You can now login to our

    } catch (SQLException ex) {
        Logger.getLogger(AddPassForm.class.getName()).log(Level.SEVERE, null, ex);
    }
    System.exit(0);//exit java application after signup
}
```

>login:

```
//once the login button is clicked this method is on
private void loginbtnActionPerformed(java.awt.event.ActionEvent evt) {
    try {
        Connection con = DriverManager.getConnection("jdbc:derby://localhost:1527/samer", "samer", "samer");

        String user = username.getText();//get the writen username from the username textfield
        String passw = pass.getText();//get the writen username from the password textfield

        //after we get the writen username and password this querry will get them from LOGIN table
        String querry = "SELECT USERNAME,PASSWORD FROM LOGIN where USERNAME='"+user+"' and PASSWORD='"+passw+"'";
        Statement stmt = con.createStatement();
        ResultSet result = stmt.executeQuery(querry);

            //check if the result returned by the querry is empty or not
            if(result.next()){
                String userc = result.getString("USERNAME");
                JOptionPane.showMessageDialog(null, "Welecome "+userc);
                //if username and password true then the user will be redirected to travel management system frame
                Traveling_management_system backBtn = new Traveling_management_system();
                backBtn.setVisible(true);

            } else{
                 //if username and password false then the system will exit
                 JOptionPane.showMessageDialog(null, "Wrong password or username, please try again. bye bye.");
                 System.exit(0);
            }

    } catch (SQLException ex) {
        Logger.getLogger(AddPassForm.class.getName()).log(Level.SEVERE, null, ex);
    }
}
```

2.Home class:

The home class displays a menu containing 4 buttons, each will redirect you to a class:

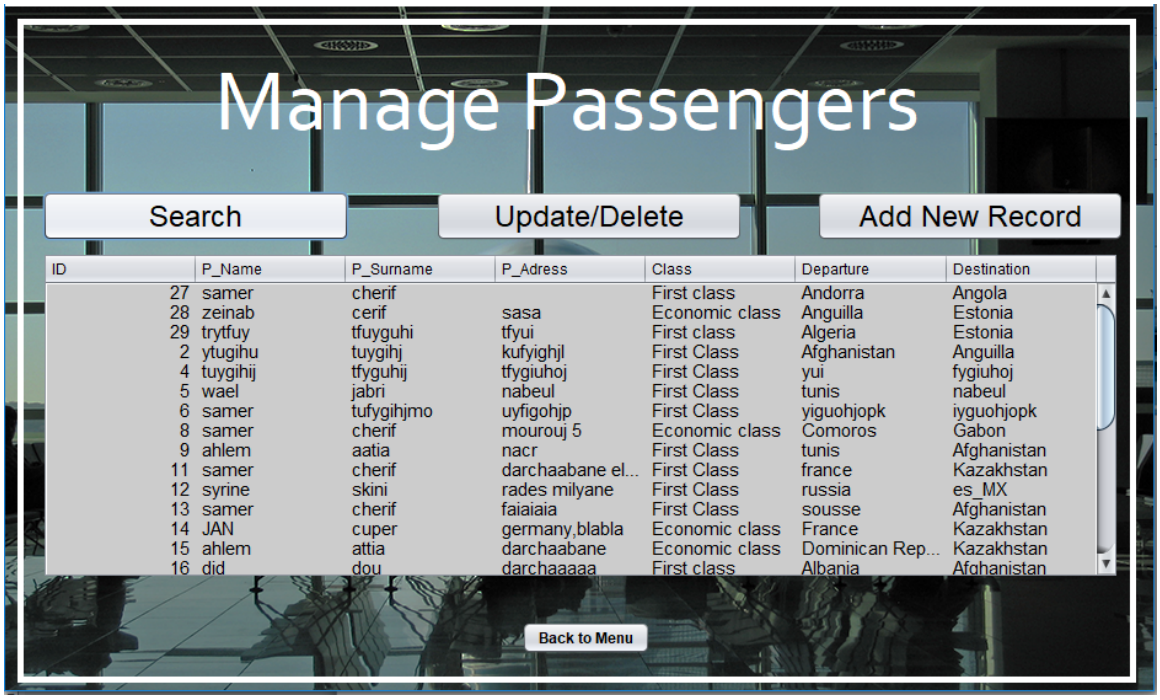
- ✓ Button1: manage Passengers(Passengers class)
- ✓ Button2: manage Staff(staff class)
- ✓ Button3: manage Airplanes(Airplane class)
- ✓ Button4: manage Flights(Flights class)

3.Passengers package:

This package contains four classes to manage passengers.

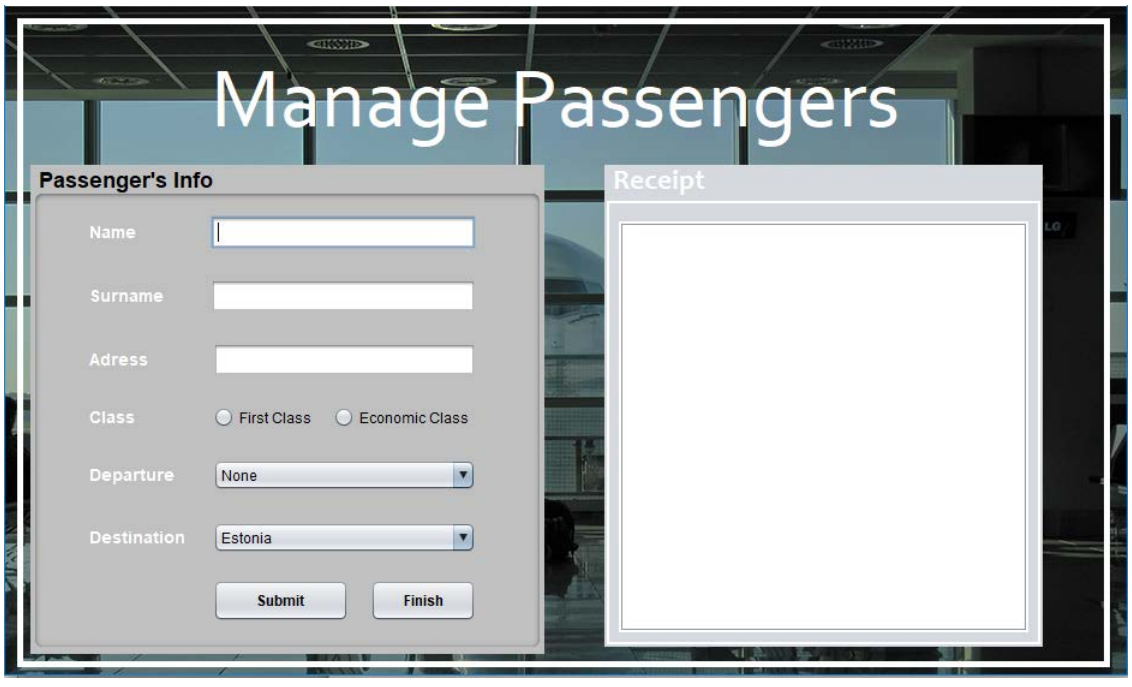
a. Passengers class:

This class displays all the info about the passengers from the database into a table.



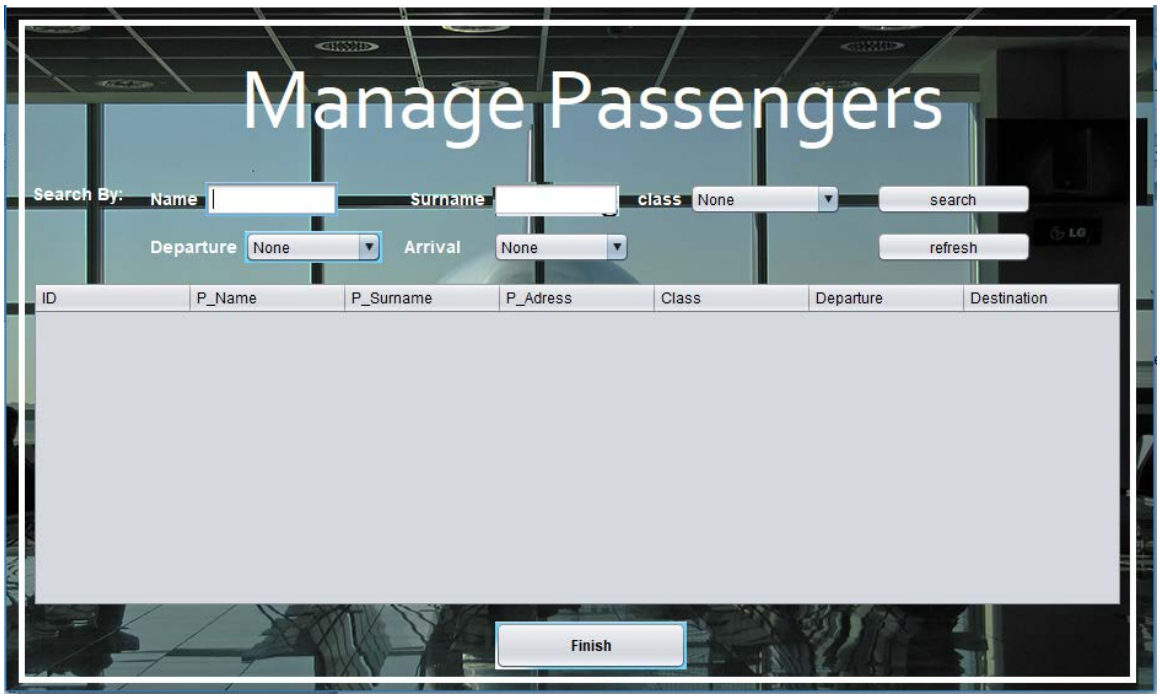
b. AddPassForm class:

This class is responsible for adding new passengers to table PASSENGERS2 in the database.



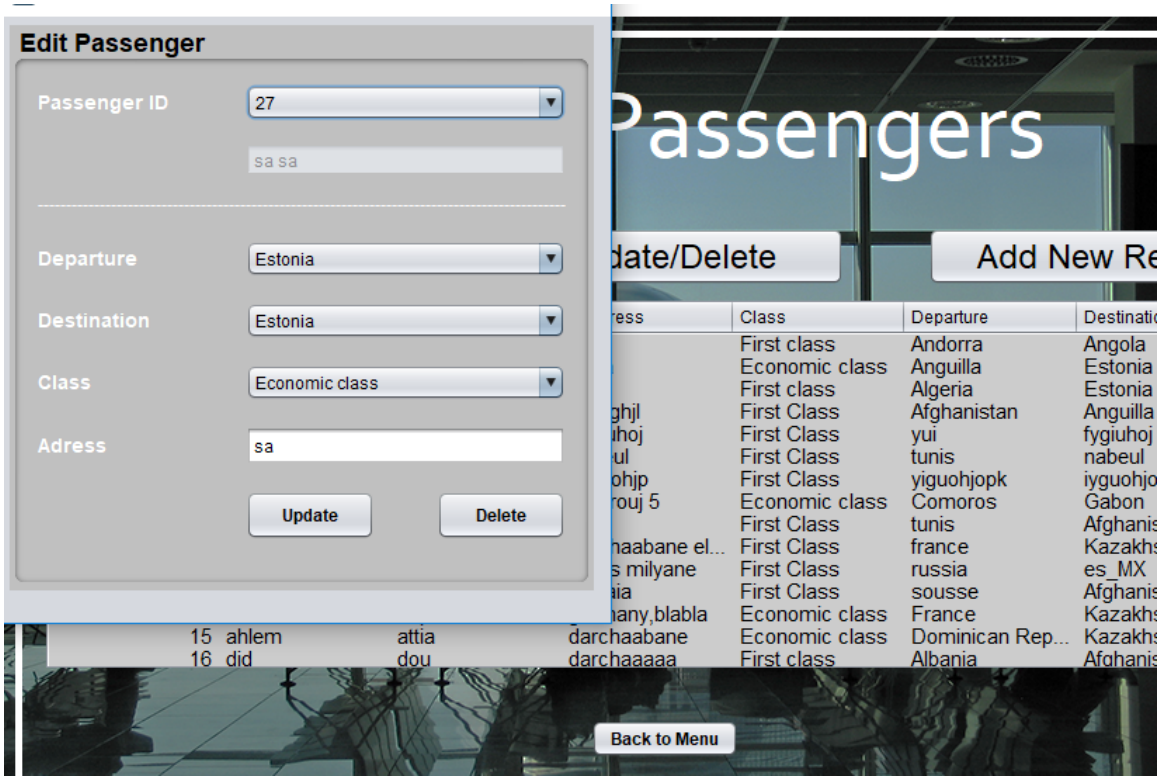
c. searchPassenger class:

Once we click on “Search”, this class is responsible for the search and display part of the passengers data from the database.



d. updatePass class:

this class is where we update or delete passengers from the database.



4.Staff package:

This package contains three classes to manage passengers.

1. Staff class:

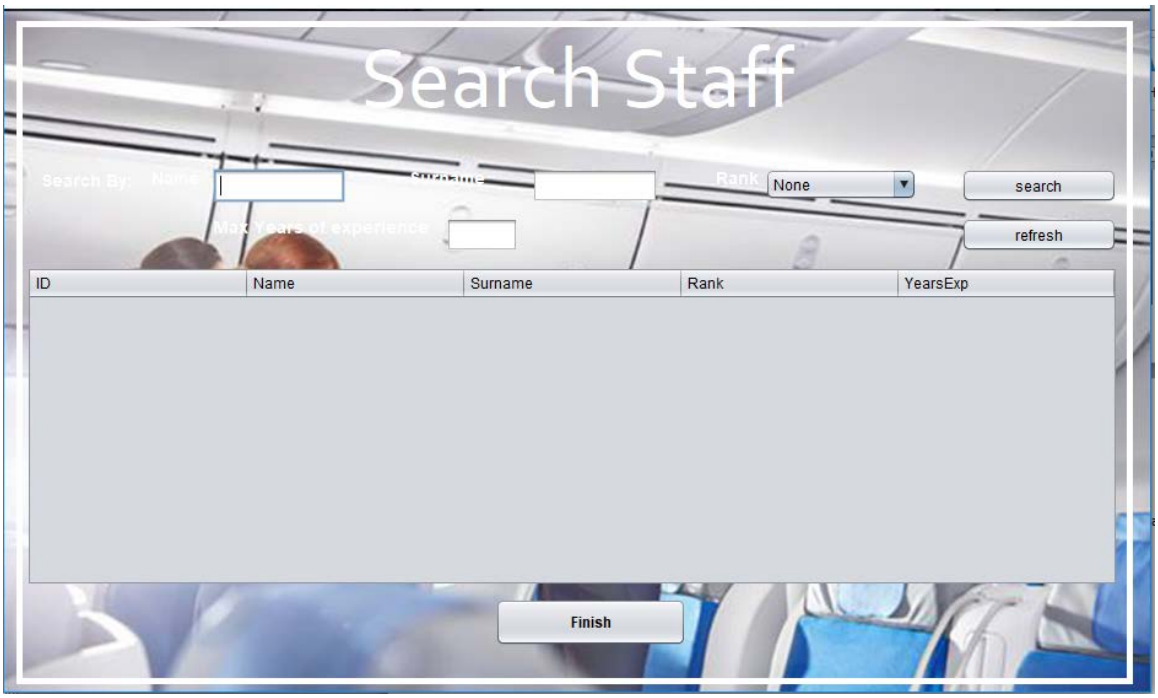
This class displays all the info about the staff from the database into a table.

2. ManageStaff class:

Once we click on “Edit/Remove Staff”, This class is where we can add, update or remove staff members from the table STAFF from database.

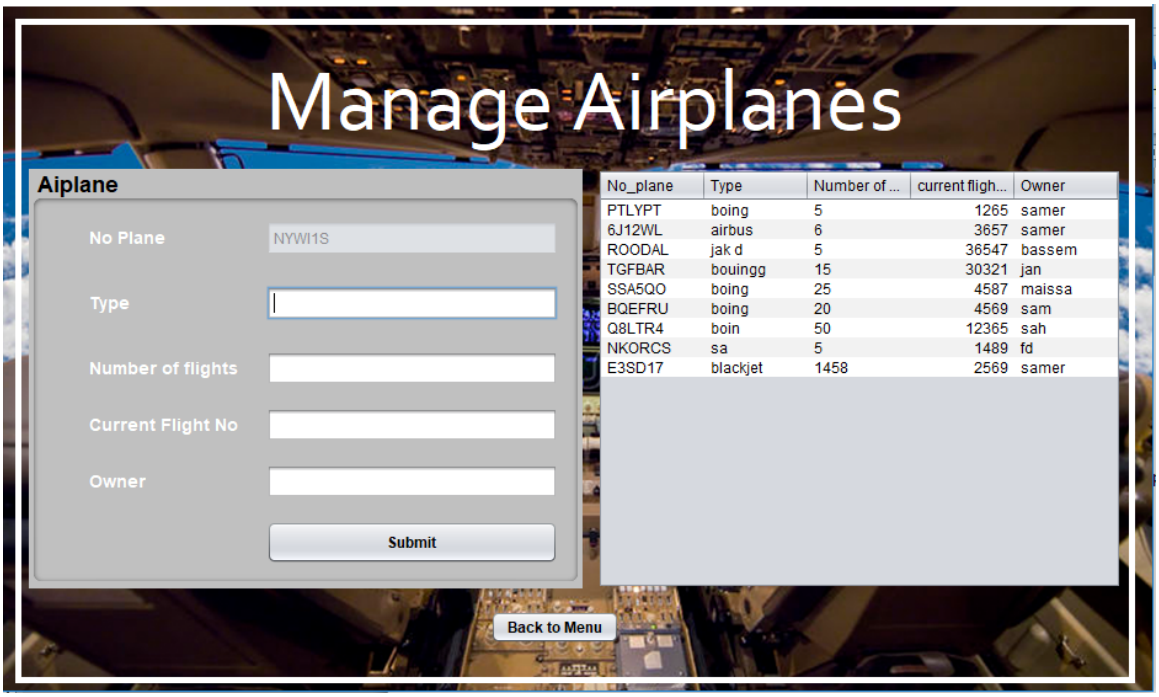
3. searchStaff class:

Once we click on “Search”, this class is responsible for the search and display part of the Staff’s data from the database.



5.Airplanes class:

This class contains only one method to add new airplanes the database table AIRPLANE then displays the data from the database into a table.

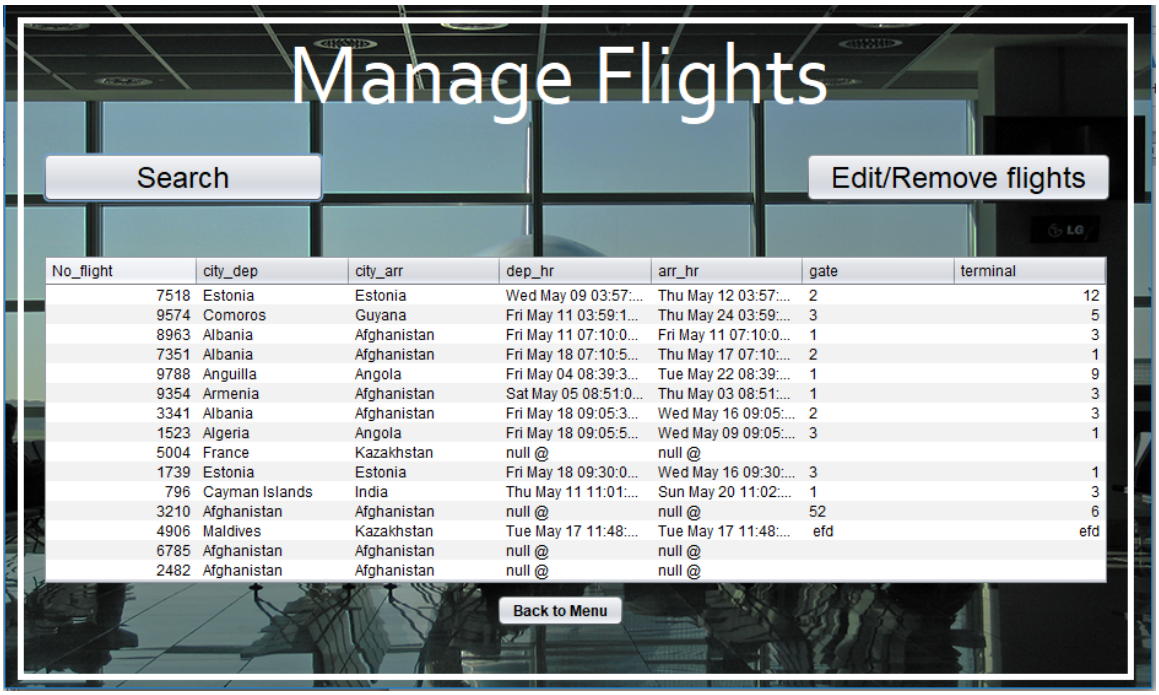


6. Flights package:

This package contains three classes to manage flights.

a. Flights class:

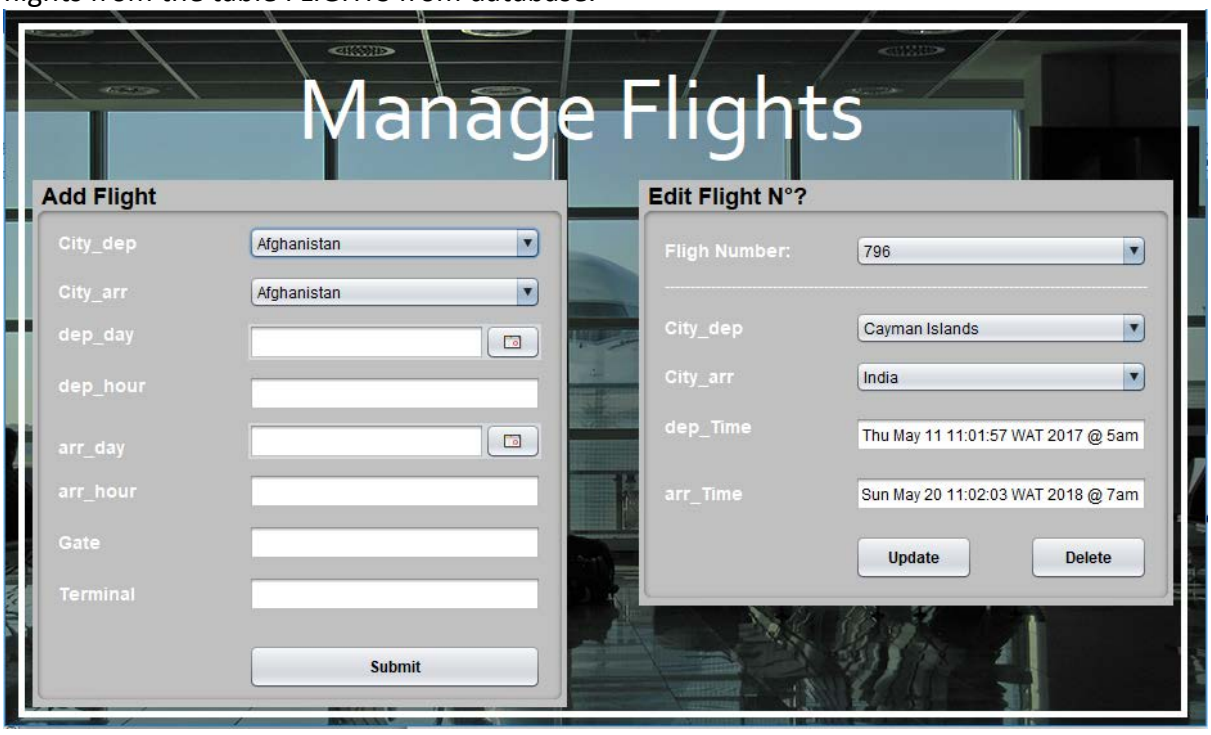
This class displays all the info about the staff from the database into a table.



No_flight	city_dep	city_arr	dep_hr	arr_hr	gate	terminal
7518	Estonia	Estonia	Wed May 09 03:57:...	Thu May 12 03:57:...	2	12
9574	Comoros	Guyana	Fri May 11 03:59:1...	Thu May 24 03:59:...	3	5
8963	Albania	Afghanistan	Fri May 11 07:10:0...	Fri May 11 07:10:0...	1	3
7351	Albania	Afghanistan	Fri May 18 07:10:5...	Thu May 17 07:10:...	2	1
9788	Anguilla	Angola	Fri May 04 08:39:3...	Tue May 22 08:39:...	1	9
9354	Armenia	Afghanistan	Sat May 05 08:51:0...	Thu May 03 08:51:...	1	3
3341	Albania	Afghanistan	Fri May 18 09:05:3...	Wed May 16 09:05:...	2	3
1523	Algeria	Angola	Fri May 18 09:05:5...	Wed May 09 09:05:...	3	1
5004	France	Kazakhstan	null @	null @		
1739	Estonia	Estonia	Fri May 18 09:30:0...	Wed May 16 09:30:...	3	1
796	Cayman Islands	India	Thu May 11 11:01:...	Sun May 20 11:02:...	1	3
3210	Afghanistan	Afghanistan	null @	null @	52	6
4906	Maldives	Kazakhstan	Tue May 17 11:48:...	Tue May 17 11:48:...	efd	efd
6785	Afghanistan	Afghanistan	null @	null @		
2482	Afghanistan	Afghanistan	null @	null @		

b. manageFlights class:

Once we click on “Edit/Remove flights”, This class is where we can add, update or remove flights from the table FLIGHTS from database.



c. searchFlight class:

Once we click on “Search”, this class is responsible for the search and display part of the Flights’ data from the database.