

Airline booking System

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GitHub : <https://github.com/ialanoudk/Airline-Booking-FlyAway/tree/master>

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1. Airline Booking System

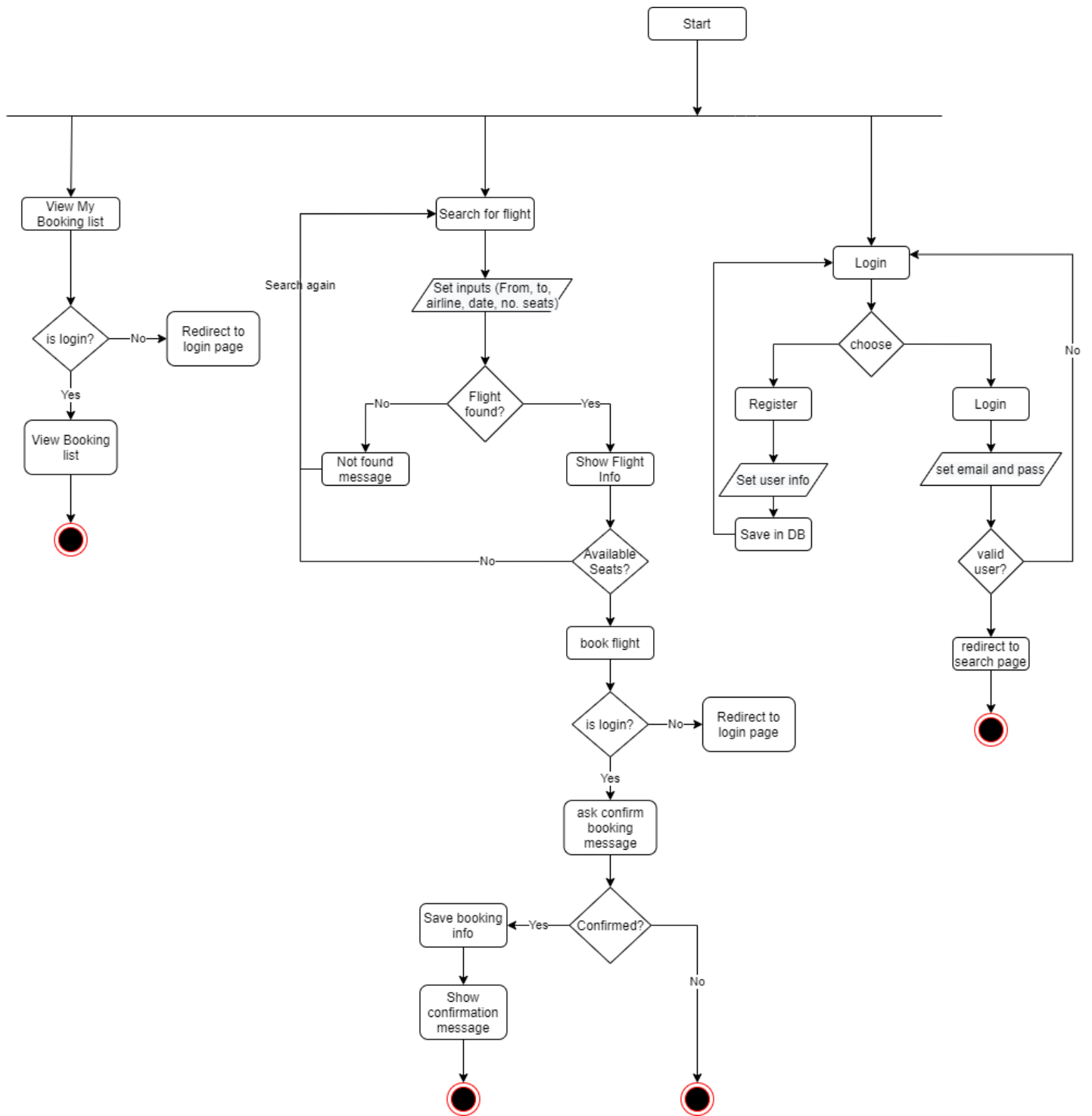
1.1 Project Description

The project is an online booking system to book flights based on information provided by passengers. The project is a dynamic web application (JSP) created by Maven with MySQL database. Users can select the location of departure, location of arrival or destination, date, which airline, and a number of needed seats in order to find available flights. If a flight is found, the system calculates if the required number of seats are available in the flight or not, if seats are less than required the user cannot book the flight. The user must sign up in order to complete the booking process.

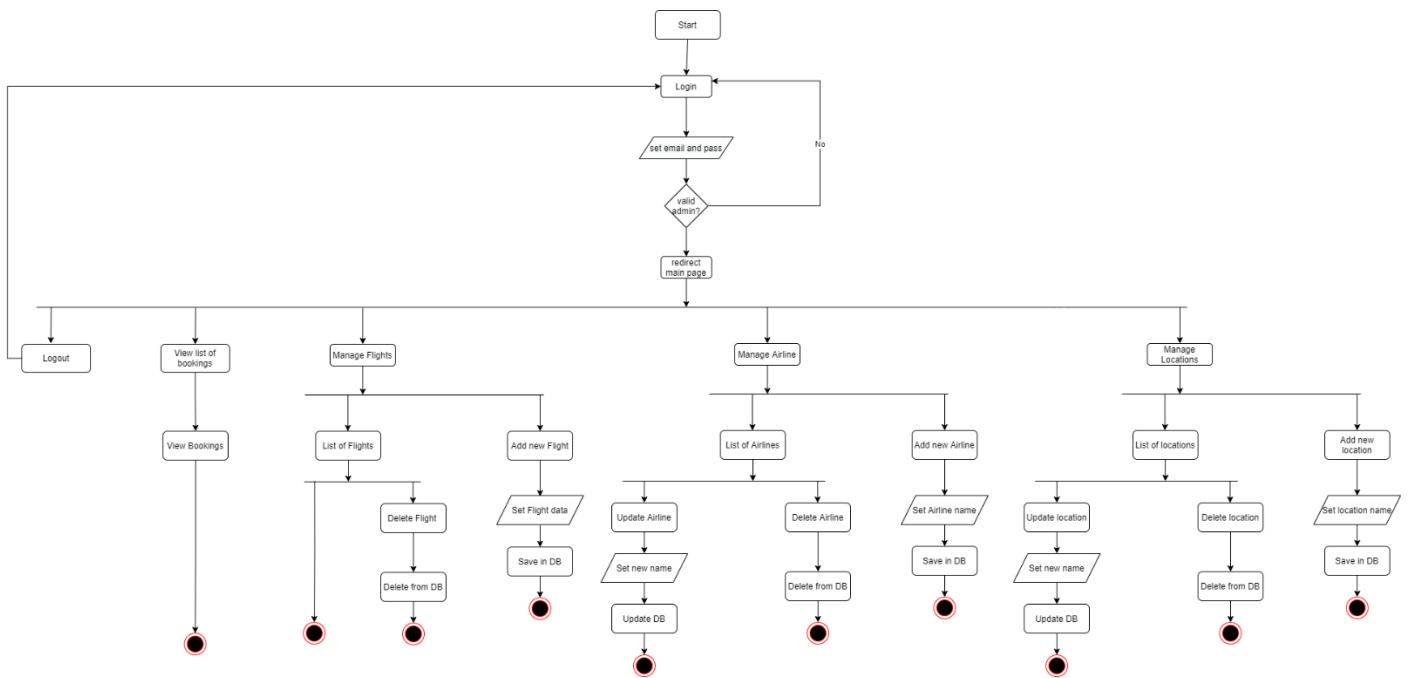
On the other hand, administrator can manage locations, airlines, and flights. Admin can add, edit or delete information, also can view all booking done by users.

2. Architecture diagram / flow chart

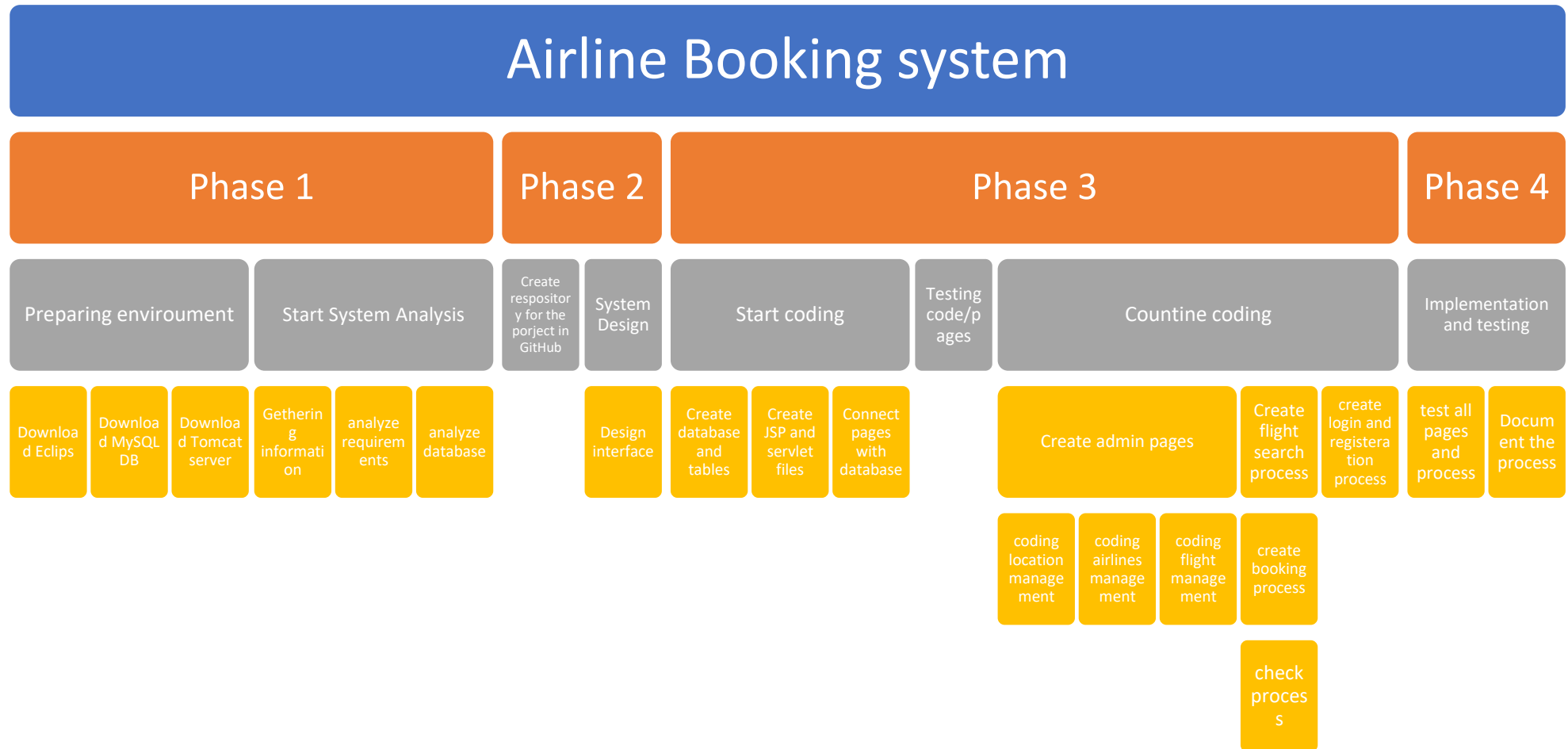
- User Workflow



- Admin workflow



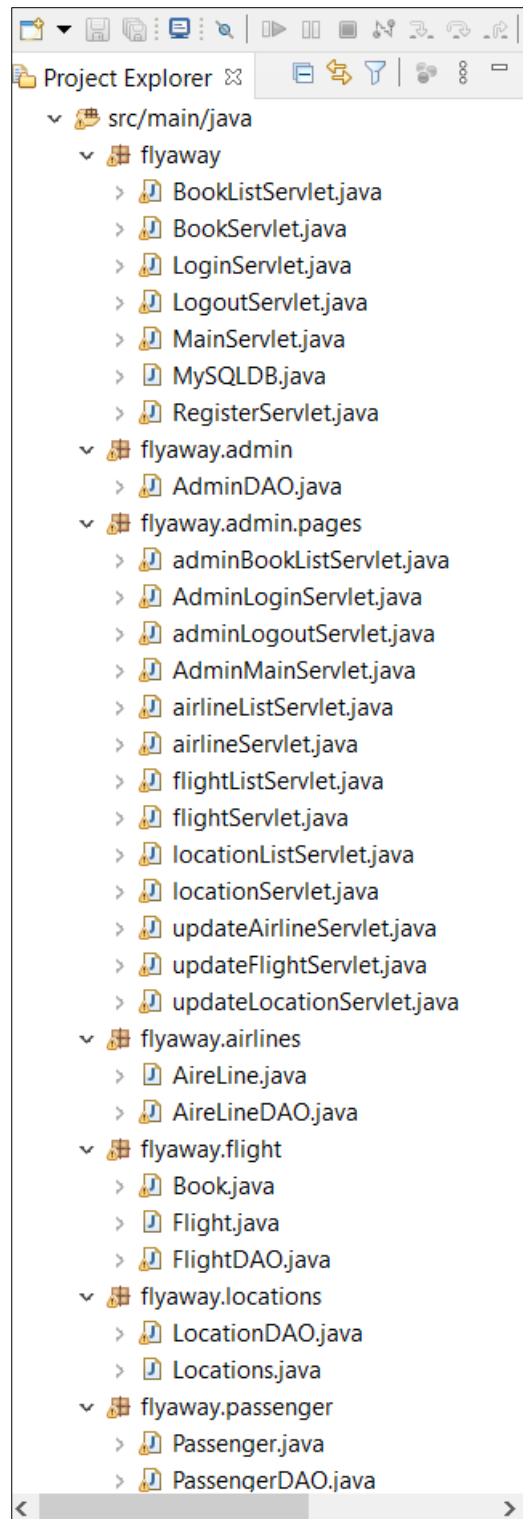
3. Project Users Stories: (Agile and Scrum)



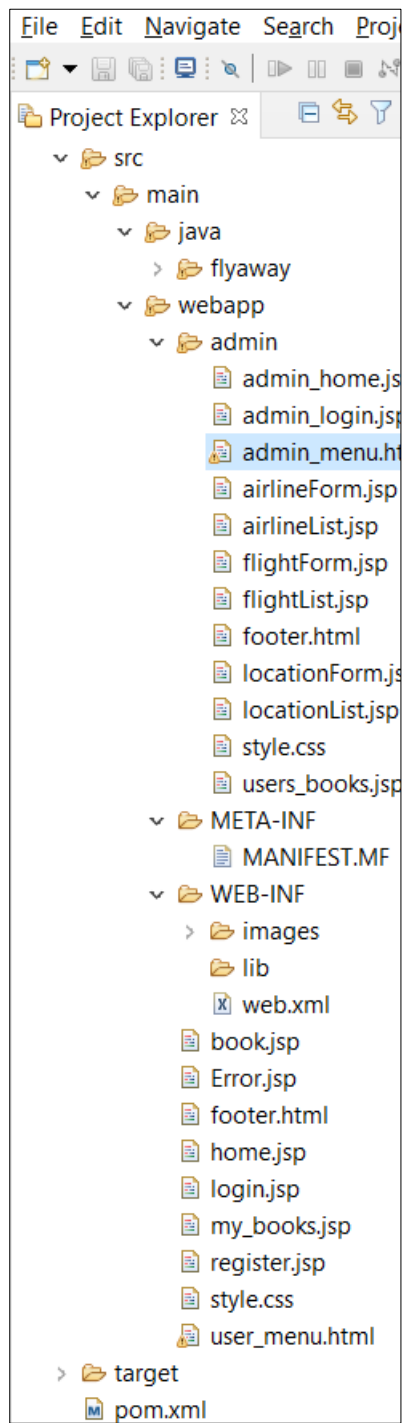
4. Source code files

Screen Shot of the Source Code:

1. Project explorer: list of all servlet files



2. Project explorer: list of all JSP files



3. Web.xml file code

```
4. <?xml version="1.0" encoding="UTF-8"?>
5. <web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://xmlns.jcp.org/xml/ns/javaee"
  xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
  http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd" id="WebApp_ID"
  version="3.1">
6.   <display-name>flyaway</display-name>
7.
8.   <servlet>
9.     <servlet-name>MainServlet</servlet-name>
10.    <servlet-class>flyaway.MainServlet</servlet-class>
11.  </servlet>
12.
13.  <servlet-mapping>
14.    <servlet-name>MainServlet</servlet-name>
15.    <url-pattern>/</url-pattern>
16.  </servlet-mapping>
17.
18.  <servlet>
19.    <servlet-name>BookServlet</servlet-name>
20.    <servlet-class>flyaway.BookServlet</servlet-class>
21.  </servlet>
22.
23.  <servlet-mapping>
24.    <servlet-name>BookServlet</servlet-name>
25.    <url-pattern>/book</url-pattern>
26.  </servlet-mapping>
27.
28.
29.  <servlet>
30.    <servlet-name>LoginServlet</servlet-name>
31.    <servlet-class>flyaway.LoginServlet</servlet-class>
32.  </servlet>
33.
34.  <servlet-mapping>
35.    <servlet-name>LoginServlet</servlet-name>
36.    <url-pattern>/login</url-pattern>
37.  </servlet-mapping>
38.
39.
40.  <servlet>
41.    <servlet-name>LogoutServlet</servlet-name>
42.    <servlet-class>flyaway.LogoutServlet</servlet-class>
43.  </servlet>
44.
45.  <servlet-mapping>
46.    <servlet-name>LogoutServlet</servlet-name>
47.    <url-pattern>/logout</url-pattern>
48.  </servlet-mapping>
49.
50.
51.  <servlet>
52.    <servlet-name>RegisterServlet</servlet-name>
53.    <servlet-class>flyaway.RegisterServlet</servlet-class>
54.  </servlet>
55.
56.  <servlet-mapping>
```

```

57.         <servlet-name>RegisterServlet</servlet-name>
58.         <url-pattern>/register</url-pattern>
59.     </servlet-mapping>
60.
61.
62.
63.     <servlet>
64.         <servlet-name>BookListServlet</servlet-name>
65.         <servlet-class>flyaway.BookListServlet</servlet-class>
66.     </servlet>
67.
68.     <servlet-mapping>
69.         <servlet-name>BookListServlet</servlet-name>
70.         <url-pattern>/mybooking</url-pattern>
71.     </servlet-mapping>
72.
73.
74.
75.     <servlet>
76.         <servlet-name>AdminMainServlet</servlet-name>
77.         <servlet-
class>flyaway.admin.pages.AdminMainServlet</servlet-class>
78.     </servlet>
79.
80.     <servlet-mapping>
81.         <servlet-name>AdminMainServlet</servlet-name>
82.         <url-pattern>/admin/</url-pattern>
83.     </servlet-mapping>
84.
85.
86.
87.     <servlet>
88.         <servlet-name>AdminLoginServlet</servlet-name>
89.         <servlet-
class>flyaway.admin.pages.AdminLoginServlet</servlet-class>
90.     </servlet>
91.
92.     <servlet-mapping>
93.         <servlet-name>AdminLoginServlet</servlet-name>
94.         <url-pattern>/admin/login</url-pattern>
95.     </servlet-mapping>
96.
97.
98.     <servlet>
99.         <servlet-name>locationServlet</servlet-name>
100.        <servlet-
class>flyaway.admin.pages.locationServlet</servlet-class>
101.    </servlet>
102.
103.    <servlet-mapping>
104.        <servlet-name>locationServlet</servlet-name>
105.        <url-pattern>/admin/addlocation</url-pattern>
106.    </servlet-mapping>
107.
108.
109.    <servlet>
110.        <servlet-name>updateLocationServlet</servlet-name>
111.        <servlet-
class>flyaway.admin.pages.updateLocationServlet</servlet-class>

```

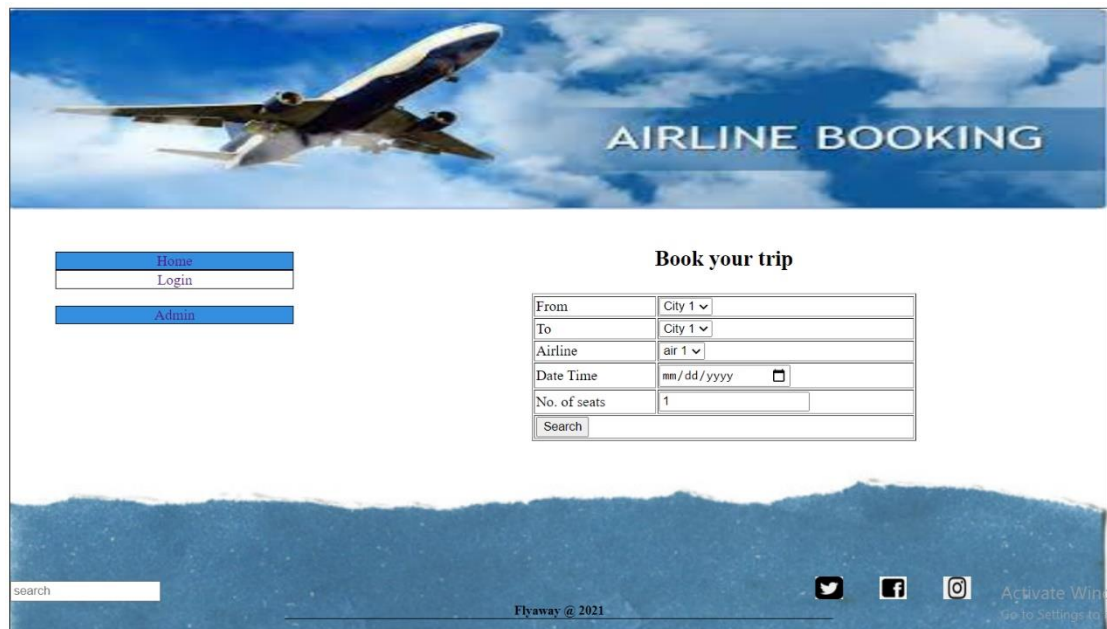
```
112.         </servlet>
113.
114.         <servlet-mapping>
115.             <servlet-name>updateLocationServlet</servlet-name>
116.             <url-pattern>/admin/updateLocation</url-pattern>
117.         </servlet-mapping>
118.
119.
120.
121.         <servlet>
122.             <servlet-name>locationListServlet</servlet-name>
123.             <servlet-
class>flyaway.admin.pages.locationListServlet</servlet-class>
124.         </servlet>
125.
126.         <servlet-mapping>
127.             <servlet-name>locationListServlet</servlet-name>
128.             <url-pattern>/admin/listLocations</url-pattern>
129.         </servlet-mapping>
130.
131.
132.
133.         <servlet>
134.             <servlet-name>airlineServlet</servlet-name>
135.             <servlet-
class>flyaway.admin.pages.airlineServlet</servlet-class>
136.         </servlet>
137.
138.         <servlet-mapping>
139.             <servlet-name>airlineServlet</servlet-name>
140.             <url-pattern>/admin/addAirline</url-pattern>
141.         </servlet-mapping>
142.
143.
144.         <servlet>
145.             <servlet-name>updateAirlineServlet</servlet-name>
146.             <servlet-
class>flyaway.admin.pages.updateAirlineServlet</servlet-class>
147.         </servlet>
148.
149.         <servlet-mapping>
150.             <servlet-name>updateAirlineServlet</servlet-name>
151.             <url-pattern>/admin/updateAirline</url-pattern>
152.         </servlet-mapping>
153.
154.
155.
156.         <servlet>
157.             <servlet-name>airlineListServlet</servlet-name>
158.             <servlet-
class>flyaway.admin.pages.airlineListServlet</servlet-class>
159.         </servlet>
160.
161.         <servlet-mapping>
162.             <servlet-name>airlineListServlet</servlet-name>
163.             <url-pattern>/admin/listAirlines</url-pattern>
164.         </servlet-mapping>
165.
166.
```

```
167.
168.         <servlet>
169.             <servlet-name>flightServlet</servlet-name>
170.             <servlet-
171.                 class>flyaway.admin.pages.flightServlet</servlet-class>
172.             </servlet>
173.         <servlet-mapping>
174.             <servlet-name>flightServlet</servlet-name>
175.             <url-pattern>/admin/addflight</url-pattern>
176.         </servlet-mapping>
177.
178.         <servlet>
179.             <servlet-name>updateFlightServlet</servlet-name>
180.             <servlet-
181.                 class>flyaway.admin.pages.updateFlightServlet</servlet-class>
182.             </servlet>
183.         <servlet-mapping>
184.             <servlet-name>updateFlightServlet</servlet-name>
185.             <url-pattern>/admin/updateflight</url-pattern>
186.         </servlet-mapping>
187.
188.
189.
190.
191.         <servlet>
192.             <servlet-name>flightListServlet</servlet-name>
193.             <servlet-
194.                 class>flyaway.admin.pages.flightListServlet</servlet-class>
195.             </servlet>
196.         <servlet-mapping>
197.             <servlet-name>flightListServlet</servlet-name>
198.             <url-pattern>/admin/listflights</url-pattern>
199.         </servlet-mapping>
200.
201.
202.
203.         <servlet>
204.             <servlet-name>adminBookListServlet</servlet-name>
205.             <servlet-
206.                 class>flyaway.admin.pages.adminBookListServlet</servlet-class>
207.             </servlet>
208.         <servlet-mapping>
209.             <servlet-name>adminBookListServlet</servlet-name>
210.             <url-pattern>/admin/usersbooking</url-pattern>
211.         </servlet-mapping>
212.
213.
214.         <servlet>
215.             <servlet-name>adminLogoutServlet</servlet-name>
216.             <servlet-
217.                 class>flyaway.admin.pages.adminLogoutServlet</servlet-class>
218.             </servlet>
219.         <servlet-mapping>
220.             <servlet-name>adminLogoutServlet</servlet-name>
```

```
221.         <url-pattern>/admin/logout</url-pattern>
222.     </servlet-mapping>
223. <error-page>
224.     <exception-type>java.lang.Exception</exception-type>
225.     <location>/Error.jsp</location>
226. </error-page>
227. </web-app>
```

5. Output Screen shot

1. Home Screen



```

19
20 public class MainServlet extends HttpServlet {
21     LocationDAO locationDB;
22     AireLineDAO airLineDB;
23     FlightDAO flightDB;
24     List<Locations> list;
25     List<AireLine> airList;
26
27     public void init() {
28         locationDB = new LocationDAO();
29         airLineDB = new AireLineDAO();
30         flightDB = new FlightDAO();
31     }
32
33
34     protected void doPost(HttpServletRequest request, HttpServletResponse response)
35         throws ServletException, IOException {
36
37         int fromLoc = Integer.parseInt(request.getParameter("from"));
38         int toLoc = Integer.parseInt(request.getParameter("to"));
39         int airline = Integer.parseInt(request.getParameter("airline"));
40         String flight_date = request.getParameter("date");
41         int no_seats = Integer.parseInt(request.getParameter("no_seats"));
42         boolean available_seats = false;
43         Flight flight = null;
44         try {
45             flight = flightDB.findflight(fromLoc, toLoc, airline, flight_date);
46             if(flight != null)
47                 available_seats = flightDB.availabeSeats(flight, no_seats);
48
49             list = locationDB.getLocations();
50             airList = airLineDB.getAirlines();
51             request.setAttribute("locations", list);
52             request.setAttribute("airList", airList);
53             request.setAttribute("flight", flight);
54             request.setAttribute("available_seats", available_seats);
55             request.setAttribute("fromLoc", fromLoc);
56             request.setAttribute("toLoc", toLoc);
57             request.setAttribute("airline", airline);
58             request.setAttribute("no_seats", no_seats);
59             request.setAttribute("flight_date", flight_date);
60             request.setAttribute("submit", true);
61         } catch (SQLException e) {
62             // TODO Auto-generated catch block

```

2.Search result: list of flights/trips founded

[Home](#)
[Login](#)
[Admin](#)

Book your trip

From	City 1
To	City 1
Airline	air 1
Date Time	mm / dd / yyyy
No. of seats	1
<input type="button" value="Search"/>	

Search Result

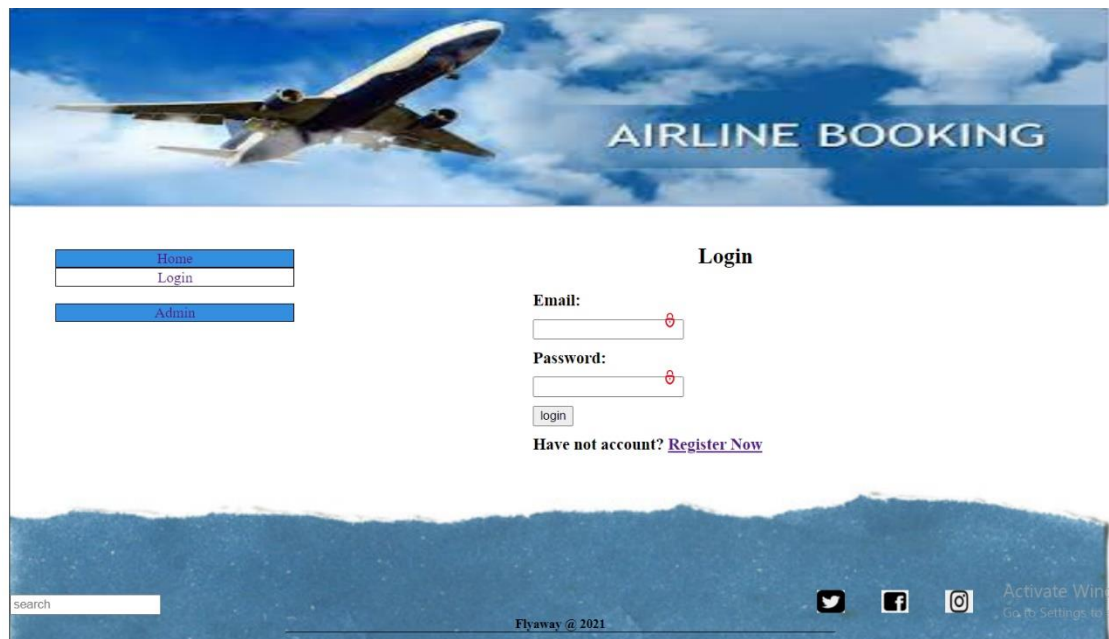
Trip Info

From	To	Via airline	Available Seats	Book Now
City 1	City 2	Via airline	Yes	Book Now

Flyaway @ 2021

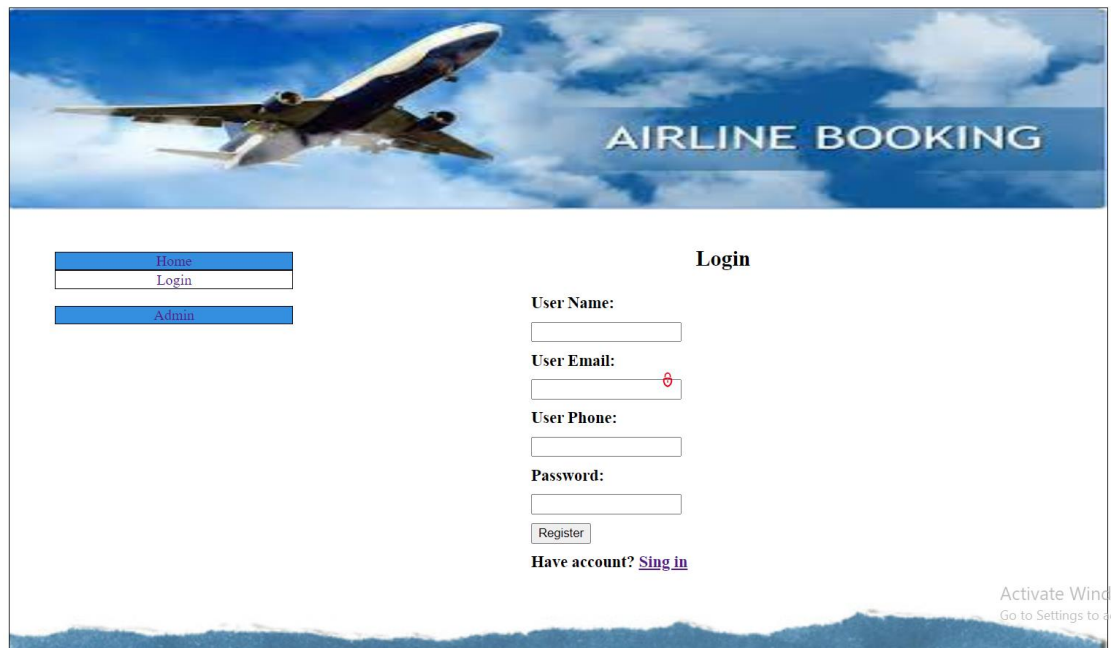
```
BookListServlet.java  BookServlet.java  Book.java  flightListServlet.java  MySQLDB.java
32     }
33     Close
34     protected void doPost(HttpServletRequest request, HttpServletResponse response)
35         throws ServletException, IOException {
36
37         HttpSession session = request.getSession();
38         int flight_id = (int)session.getAttribute("flight_id");
39         int seats_no = (int)session.getAttribute("seats_no");
40         int passenger_id = (int)session.getAttribute("id");
41         boolean confirm;
42         try {
43             confirm = flight_db.confirm(passenger_id, flight_id,seats_no);
44             request.setAttribute("confirm", confirm);
45         } catch (SQLException e) {
46             // TODO Auto-generated catch block
47             e.printStackTrace();
48         }
49         RequestDispatcher dispatcher = request.getRequestDispatcher("book.jsp");
50         dispatcher.forward(request, response);
51     }
52
53     protected void doGet(HttpServletRequest request, HttpServletResponse response)
54         throws ServletException, IOException {
55
56         HttpSession session = request.getSession();
57         int seats_no = 0;
58         int flight_id = 0;
59         if(request.getParameter("seats_no") != null) {
60             seats_no = Integer.parseInt(request.getParameter("seats_no"));
61             flight_id = Integer.parseInt(request.getParameter("id"));
62         }else {
63             flight_id = (int)session.getAttribute("flight_id");
64             seats_no = (int)session.getAttribute("seats_no");
65         }
66         Flight flight = null;
67         try {
68             flight = flight_db.getflight(flight_id);
69         } catch (SQLException e1) {
70             // TODO Auto-generated catch block
71             e1.printStackTrace();
72         }
73         session.setAttribute("flight_id", flight_id);
74         session.setAttribute("seats_no", seats_no);
75         int id = -1;
```

3.Login Page: user must log in to complete booking process



```
LoginServlet.java MainServlet.java
3
4 import java.io.IOException;
21
22 public class LoginServlet extends HttpServlet {
23     PassengerDAO passenger = null;
24     public void init() {
25         passenger = new PassengerDAO();
26     }
27
28
29     protected void doPost(HttpServletRequest request, HttpServletResponse response)
30         throws ServletException, IOException {
31
32         String email = request.getParameter("email");
33         String pass = request.getParameter("pass");
34
35         boolean valid_user = false;
36         try {
37             if(passenger.login(email, pass))
38             {
39                 HttpSession session=request.getSession();
40                 Passenger p = passenger.getPassenger(email);
41                 session.setAttribute("id",p.getId());
42                 session.setAttribute("email", p.getEmail());
43                 session.setAttribute("name", p.getName());
44
45                 response.sendRedirect(".");
46             }else {
47                 RequestDispatcher dispatcher = request.getRequestDispatcher("login.jsp");
48                 request.setAttribute("valid_user", valid_user);
49                 dispatcher.forward(request, response);
50             }
51         } catch (SQLException | IOException | ServletException e) {
52             // TODO Auto-generated catch block
53             e.printStackTrace();
54         }
55     }
56
57     protected void doGet(HttpServletRequest request, HttpServletResponse response)
58         throws ServletException, IOException {
59
60     }
61
```


4.Register Page: If user have no account, user must create an account.



```
1 package flyaway;
2
3
4 import java.io.IOException;
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22 public class RegisterServlet extends HttpServlet {
23     PassengerDAO passenger = null;
24     public void init() {
25         passenger = new PassengerDAO();
26     }
27
28
29     protected void doPost(HttpServletRequest request, HttpServletResponse response)
30         throws ServletException, IOException {
31
32         String email = request.getParameter("email");
33         String pass = request.getParameter("pass");
34         String phone = request.getParameter("phone");
35         String name = request.getParameter("name");
36
37         boolean valid_user = false;
38         try {
39             if(passenger.register(name, phone, email, pass))
40             {
41                 HttpSession session=request.getSession();
42
43                 Passenger p = passenger.getPassenger(email);
44                 session.setAttribute("id",p.getId());
45                 session.setAttribute("email", p.getemail());
46                 session.setAttribute("name", p.getname());
47
48                 RequestDispatcher dispatcher = request.getRequestDispatcher("home.jsp");
49                 dispatcher.forward(request, response);
50             }else {
51                 RequestDispatcher dispatcher = request.getRequestDispatcher("login.jsp");
52                 request.setAttribute("valid_user", valid_user);
53                 dispatcher.forward(request, response);
54             }
55         } catch (SQLException | IOException | ServletException e) {
56             // TODO Auto-generated catch block
57             e.printStackTrace();
58         }
59     }
60 }
```

5. Confirmation Page: User must confirm the information of booking.

Confirm your booking	
From	City 1
To	City 2
AirLine	air 1
No. of persons/seats	1
Ticket Price	550.0
Total Price	550.0
Customer/Passenger Name	Farah
Customer/Passenger Email	aa@yahoo.com
Customer/Passenger Phone	0555501505
<input type="button" value="Do Pay / Confirm"/>	

6.Booking complete confirmation page:

Your booking is confirmed

[View My Booking](#)

```

BookListServlet.java BookServlet.java
4 import java.io.IOException;
21
22 public class BookServlet extends HttpServlet {
23     LocationDAO locationDB;
24     AirLineDAO airLineDB;
25     PassengerDAO passenger;
26     FlightDAO flight_db = new FlightDAO();
27
28     public void init() {
29         locationDB = new LocationDAO();
30         airLineDB = new AirLineDAO();
31         passenger = new PassengerDAO();
32     }
33
34     protected void doPost(HttpServletRequest request, HttpServletResponse response)
35         throws ServletException, IOException {
36
37         HttpSession session = request.getSession();
38         int flight_id = (int)session.getAttribute("flight_id");
39         int seats_no = (int)session.getAttribute("seats_no");
40         int passenger_id = (int)session.getAttribute("id");
41         boolean confirm;
42         try {
43             confirm = flight_db.confirm(passenger_id, flight_id, seats_no);
44             request.setAttribute("confirm", confirm);
45         } catch (SQLException e) {
46             // TODO Auto-generated catch block
47             e.printStackTrace();
48         }
49         RequestDispatcher dispatcher = request.getRequestDispatcher("book.jsp");
50         dispatcher.forward(request, response);
51     }
52
53     protected void doGet(HttpServletRequest request, HttpServletResponse response)
54         throws ServletException, IOException {
55
56         HttpSession session = request.getSession();
57         int seats_no = 0;
58         int flight_id = 0;
59         if(request.getParameter("seats_no") != null) {
60             seats_no = Integer.parseInt(request.getParameter("seats_no"));
61             flight_id = Integer.parseInt(request.getParameter("id"));
62         } else {

```

7.Booking list page: user can view his list of booking with information of each booking.

AIRLINE BOOKING

Home
My Booking
logout
Admin

My Booking List

Passenger Name	Book date	Flight Number	From	To	Airline	No. of persons
Farah	2021-07-28	1	City 1	City 2	air 1	6
Farah	2021-07-29	1	City 1	City 2	air 1	4
Farah	2021-07-30	1	City 1	City 2	air 1	1

search

Twitter Facebook Instagram Activate Windows Go to Settings to activate Windows

Flyaway @ 2021

```
BookListServlet.java
23
24 public class BookListServlet extends HttpServlet {
25     LocationDAO locationDB;
26     AireLineDAO airLineDB;
27     PassengerDAO passenger;
28     FlightDAO flight_db = new FlightDAO();
29
30     public void init() {
31         locationDB = new LocationDAO();
32         airLineDB = new AireLineDAO();
33         passenger = new PassengerDAO();
34     }
35
36     protected void doPost(HttpServletRequest request, HttpServletResponse response)
37         throws ServletException, IOException {
38
39         HttpSession session = request.getSession();
40         RequestDispatcher dispatcher = request.getRequestDispatcher("my_books.jsp");
41         dispatcher.forward(request, response);
42     }
43
44     protected void doGet(HttpServletRequest request, HttpServletResponse response)
45         throws ServletException, IOException {
46
47         HttpSession session = request.getSession();
48         int id = -1;
49         if(session.getAttribute("id") != null) {
50             id = (int)session.getAttribute("id");
51         }
52
53         if(id == -1) {
54             response.sendRedirect(request.getContextPath() + "/login.jsp");
55         } else {
56             RequestDispatcher dispatcher = request.getRequestDispatcher("my_books.jsp");
57             String email = (String)session.getAttribute("email");
58             try {
59                 Passenger p = passenger.getPassenger(email);
60                 request.setAttribute("passenger", p);
61             } catch (SQLException e) {
62                 // TODO Auto-generated catch block
63                 e.printStackTrace();
64             }
65             List<Book> listBooks = new ArrayList<Book>();
66             try {
```

8.Admin Login Page:

AIRLINE BOOKING

Home
Login
User Pages

Login to administrator

Email:

Password:

login

search

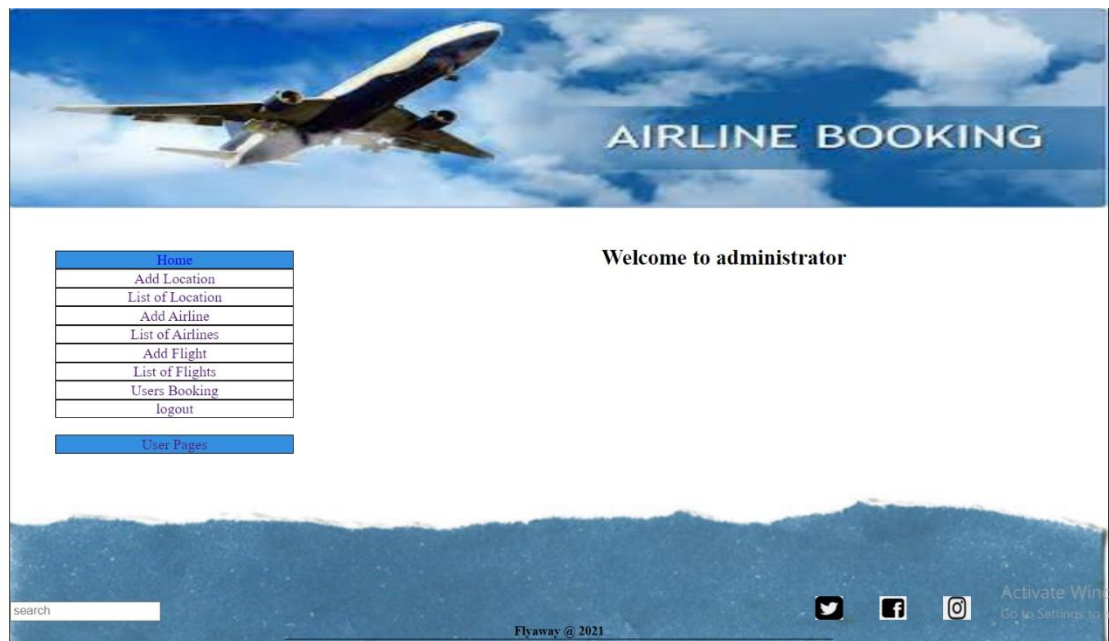
Flyaway @ 2021

Twitter Facebook Instagram

Activate Windows
Go to Settings to activate Windows.

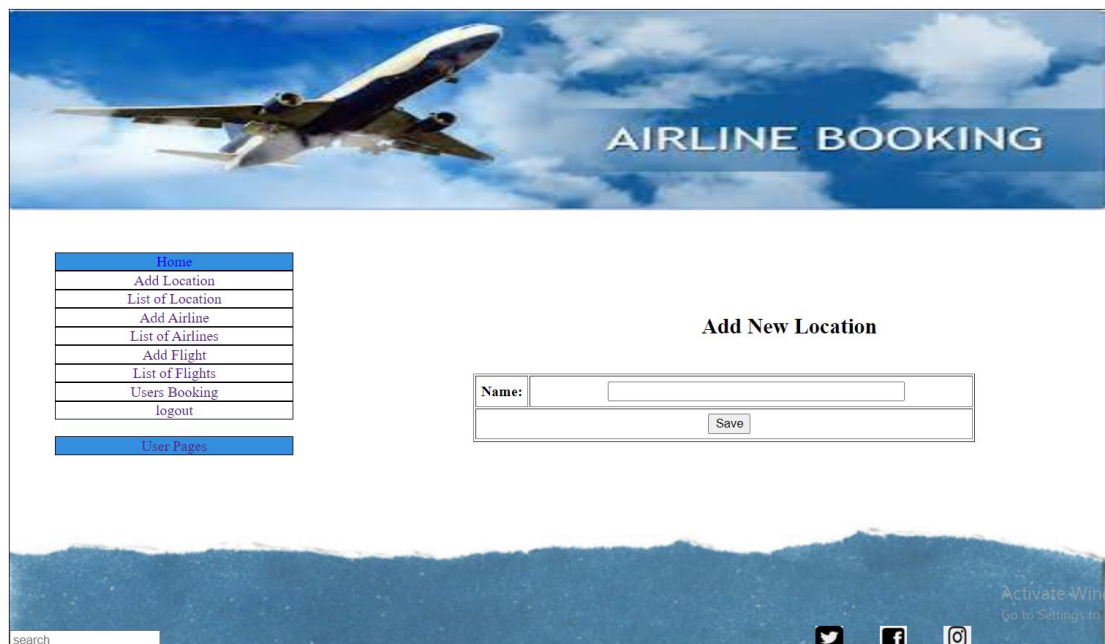
```
AdminLoginServlet.java
1 package flyaway.admin.pages;
2 import java.io.IOException;
14
15 public class AdminLoginServlet extends HttpServlet {
16     AdminDAO admin = null;
17     public void init() {
18         admin = new AdminDAO();
19     }
20
21
22     protected void doPost(HttpServletRequest request, HttpServletResponse response)
23         throws ServletException, IOException {
24
25         String email = request.getParameter("email");
26         String pass = request.getParameter("pass");
27
28         boolean valid_user = false;
29         try {
30             if(admin.adminLogin(email, pass))
31             {
32                 HttpSession session=request.getSession();
33                 session.setAttribute("adminLogin", true);
34
35                 response.sendRedirect(".");
36             }else {
37                 RequestDispatcher dispatcher = request.getRequestDispatcher("admin_login.jsp");
38                 request.setAttribute("valid_user", valid_user);
39                 dispatcher.forward(request, response);
40             }
41         } catch (SQLException | IOException | ServletException e) {
42             // TODO Auto-generated catch block
43             e.printStackTrace();
44         }
45     }
46
47     protected void doGet(HttpServletRequest request, HttpServletResponse response)
48         throws ServletException, IOException {
49         RequestDispatcher dispatcher = request.getRequestDispatcher("admin_login.jsp");
50         dispatcher.forward(request, response);
51     }
52 }
53
54 }
```


9.Admin Home page :.



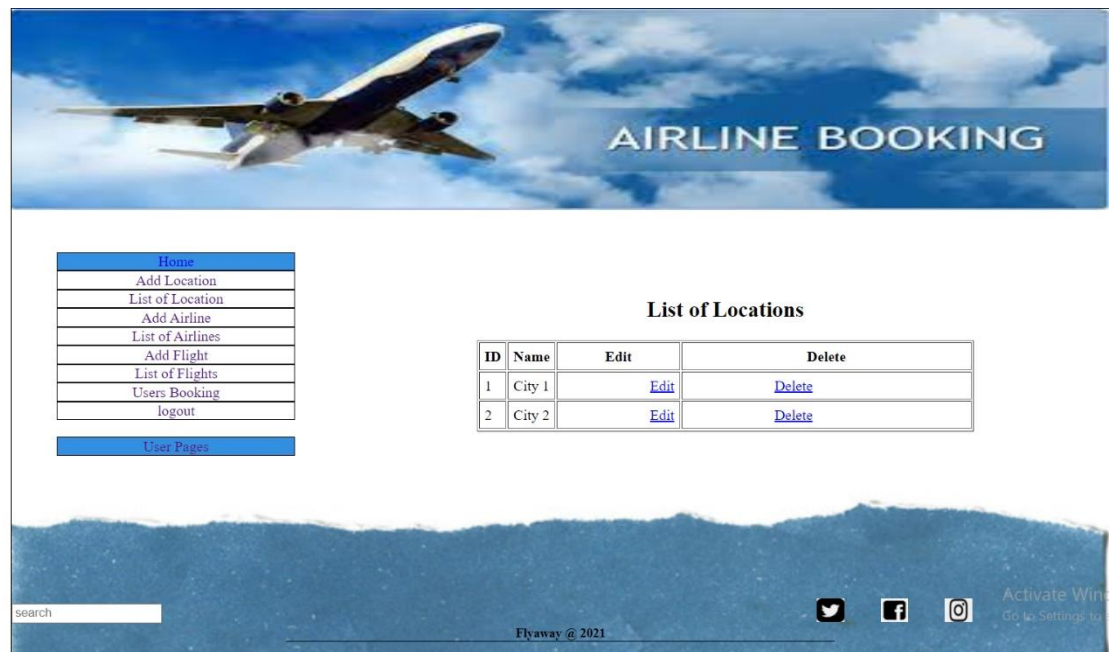
```
AdminLoginServlet.java  AdminMainServlet.java  x
1  package flyaway.admin.pages;
2
3
4  import java.io.IOException;
20
21  public class AdminMainServlet extends HttpServlet {
22      LocationDAO locationDB;
23      AireLineDAO airLineDB;
24      FlightDAO flightDB;
25      List<Locations> list;
26      List<AireLine> airList;
27
28      public void init() {
29          locationDB = new LocationDAO();
30          airLineDB = new AireLineDAO();
31          flightDB = new FlightDAO();
32      }
33
34
35      protected void doPost(HttpServletRequest request, HttpServletResponse response)
36          throws ServletException, IOException {
37
38
39
40          RequestDispatcher dispatcher = request.getRequestDispatcher("admin_home.jsp");
41          dispatcher.forward(request, response);
42      }
43
44      protected void doGet(HttpServletRequest request, HttpServletResponse response)
45          throws ServletException, IOException {
46
47          HttpSession session = request.getSession();
48          if(session.getAttribute("adminLogin") == null) {
49              response.sendRedirect(request.getContextPath() + "/admin/login");
50          } else {
51              RequestDispatcher dispatcher = request.getRequestDispatcher("admin_home.jsp");
52              dispatcher.forward(request, response);
53          }
54      }
55
56  }
57
58
```

10. Add new location page



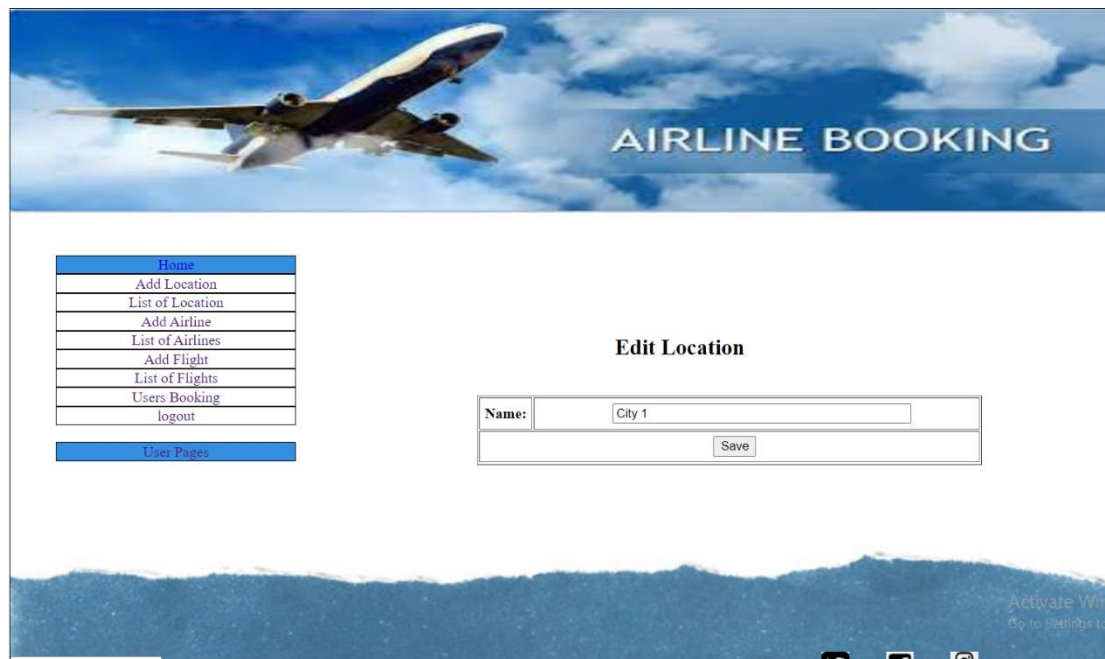
```
AdminLoginServlet.java  AdminMainServlet.java  locationServlet.java  ⌵
18 public class locationServlet extends HttpServlet {
19     LocationDAO loc = null;
20     public void init() {
21         loc = new LocationDAO();
22     }
23
24
25     protected void doPost(HttpServletRequest request, HttpServletResponse response)
26         throws ServletException, IOException {
27
28         String name = request.getParameter("name");
29         boolean error = false;
30         try {
31             if(loc.add(name))
32             {
33                 HttpSession session=request.getSession();
34                 session.setAttribute("adminLogin", true);
35
36                 response.sendRedirect("./listlocations");
37             }else {
38                 RequestDispatcher dispatcher = request.getRequestDispatcher("locationForm.jsp");
39                 request.setAttribute("error", error);
40                 dispatcher.forward(request, response);
41             }
42         } catch (SQLException | IOException | ServletException e) {
43             // TODO Auto-generated catch block
44             e.printStackTrace();
45         }
46     }
47
48     protected void doGet(HttpServletRequest request, HttpServletResponse response)
49         throws ServletException, IOException {
50
51         HttpSession session = request.getSession();
52         boolean adminLogin = false;
53         if(session.getAttribute("adminLogin") != null) {
54             adminLogin= (boolean)session.getAttribute("adminLogin");
55         }
56
57         if(!adminLogin){
58             response.sendRedirect(request.getContextPath() + "/admin/login");
59         }else {
60             RequestDispatcher dispatcher = request.getRequestDispatcher("locationForm.jsp");
```

11. List of saved locations



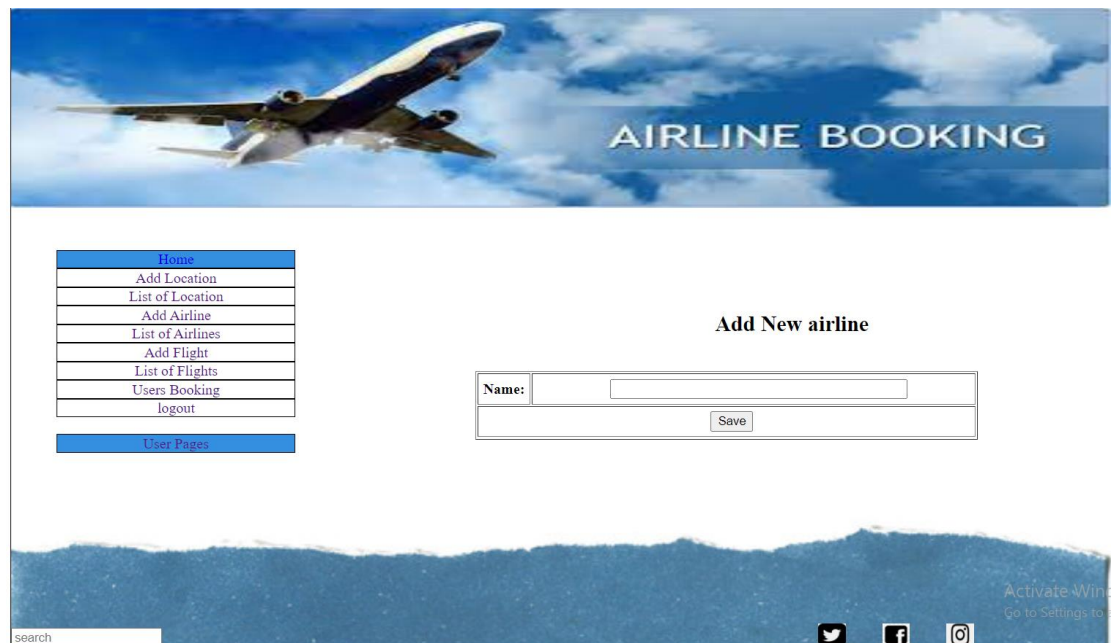
```
AdminLoginServlet.java AdminMainServlet.java locationServlet.java locationListServlet.java x
1 package flyaway.admin.pages;
2
3
4 import java.io.IOException;
18
19 public class locationListServlet extends HttpServlet {
20     LocationDAO loc = null;
21     public void init() {
22         loc = new LocationDAO();
23     }
24
25
26     protected void doPost(HttpServletRequest request, HttpServletResponse response)
27         throws ServletException, IOException {
28
29     }
30
31     protected void doGet(HttpServletRequest request, HttpServletResponse response)
32         throws ServletException, IOException {
33
34         HttpSession session = request.getSession();
35         boolean adminLogin = false;
36         if(session.getAttribute("adminLogin") != null) {
37             adminLogin= (boolean)session.getAttribute("adminLogin");
38         }
39
40         if(!adminLogin){
41             response.sendRedirect(request.getContextPath() + "/admin/login");
42         }else {
43             RequestDispatcher dispatcher = request.getRequestDispatcher("locationList.jsp");
44             List<Locations> list;
45             try {
46                 list = loc.getLocations();
47                 request.setAttribute("listLocations", list);
48                 dispatcher.forward(request, response);
49             } catch (SQLException e) {
50                 // TODO Auto-generated catch block
51                 e.printStackTrace();
52             }
53         }
54     }
55 }
56 }
57 }
```


12. Edit Location Name



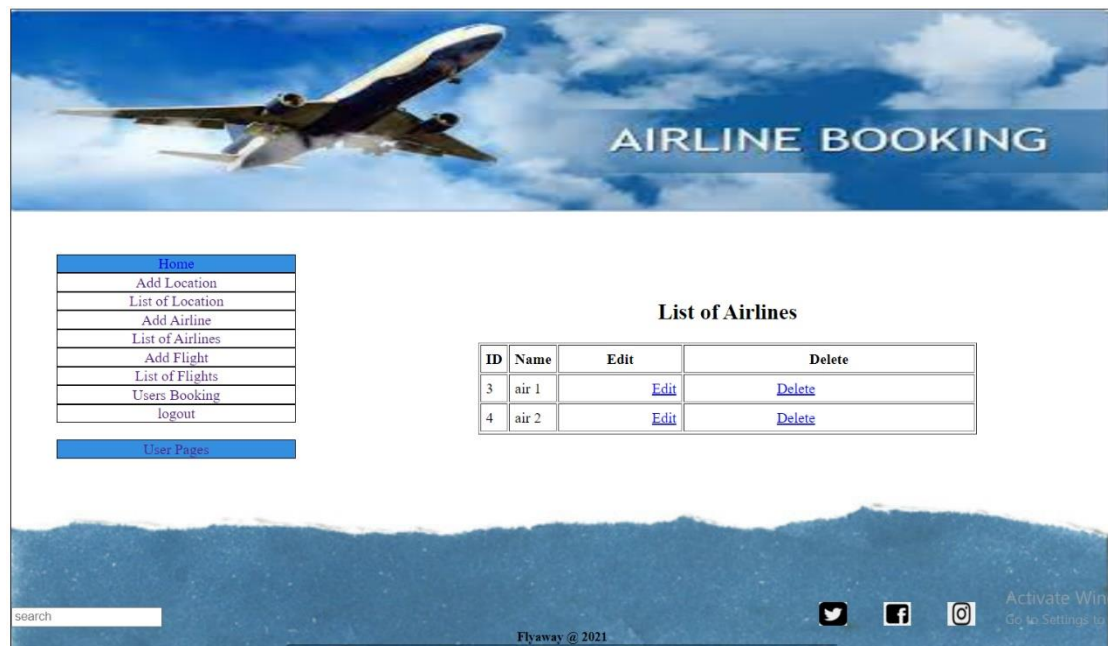
```
1 package flyaway.admin.pages;
2
3
4 import java.io.IOException;
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19 public class updateLocationServlet extends HttpServlet {
20     LocationDAO loc = null;
21     public void init() {
22         loc = new LocationDAO();
23     }
24
25
26     protected void doPost(HttpServletRequest request, HttpServletResponse response)
27         throws ServletException, IOException {
28
29         String name = request.getParameter("name");
30         String id = request.getParameter("id");
31         boolean error = false;
32         try {
33             if(loc.update(id, name))
34             {
35
36                 response.sendRedirect("./listlocations");
37             }else {
38                 RequestDispatcher dispatcher = request.getRequestDispatcher("locationForm.jsp");
39                 request.setAttribute("error", error);
40                 dispatcher.forward(request, response);
41             }
42         } catch (SQLException | IOException | ServletException e) {
43             // TODO Auto-generated catch block
44             e.printStackTrace();
45         }
46     }
47
48     protected void doGet(HttpServletRequest request, HttpServletResponse response)
49         throws ServletException, IOException {
50
51         HttpSession session = request.getSession();
52         boolean adminLogin = false;
53         if(session.getAttribute("adminLogin") != null) {
54             adminLogin= (boolean)session.getAttribute("adminLogin");
55         }
56
57         if(adminLogin){
```

13. Add new airline page



```
AdminLoginServlet.java AdminMainServlet.java locationServlet.java locationListServlet.java airlineServlet.java
1 package flyaway.admin.pages;
2
3
4 import java.io.IOException;
18
19 public class airlineServlet extends HttpServlet {
20     AireLineDAO loc = null;
21     public void init() {
22         loc = new AireLineDAO();
23     }
24
25
26     protected void doPost(HttpServletRequest request, HttpServletResponse response)
27         throws ServletException, IOException {
28
29         String name = request.getParameter("name");
30         boolean error = false;
31         try {
32             if(loc.add(name))
33             {
34                 response.sendRedirect("../listairlines");
35             }else {
36                 RequestDispatcher dispatcher = request.getRequestDispatcher("airlineForm.jsp");
37                 request.setAttribute("error", error);
38                 dispatcher.forward(request, response);
39             }
40         } catch (SQLException | IOException | ServletException e) {
41             // TODO Auto-generated catch block
42             e.printStackTrace();
43         }
44     }
45
46     protected void doGet(HttpServletRequest request, HttpServletResponse response)
47         throws ServletException, IOException {
48
49         HttpSession session = request.getSession();
50         boolean adminLogin = false;
51         if(session.getAttribute("adminLogin") != null) {
52             adminLogin= (boolean)session.getAttribute("adminLogin");
53         }
54
55         if(!adminLogin){
56             response.sendRedirect(request.getContextPath() + "/admin/login");
57         }
```

13. List of saved airlines



```
airlineListServlet.java  updateAirlineServlet.java
1 | package flyaway.admin.pages;
2
3
4+ import java.io.IOException;
20
21 public class airlineListServlet extends HttpServlet {
22     AireLineDAO a = null;
23     public void init() {
24         a = new AireLineDAO ();
25     }
26
27
28     protected void doPost(HttpServletRequest request, HttpServletResponse response)
29         throws ServletException, IOException {
30
31     }
32
33     protected void doGet(HttpServletRequest request, HttpServletResponse response)
34         throws ServletException, IOException {
35
36         HttpSession session = request.getSession();
37         boolean adminLogin = false;
38         if(session.getAttribute("adminLogin") != null) {
39             adminLogin= (boolean)session.getAttribute("adminLogin");
40         }
41
42         if(!adminLogin){
43             response.sendRedirect(request.getContextPath() + "/admin/login");
44         }else {
45             RequestDispatcher dispatcher = request.getRequestDispatcher("airlineList.jsp");
46             List<AireLine> list;
47             try {
48                 list = a.getAirlines();
49                 request.setAttribute("listAirlines", list);
50                 dispatcher.forward(request, response);
51             } catch (SQLException e) {
52                 // TODO Auto-generated catch block
53                 e.printStackTrace();
54             }
55         }
56     }
57 }
58 }
```

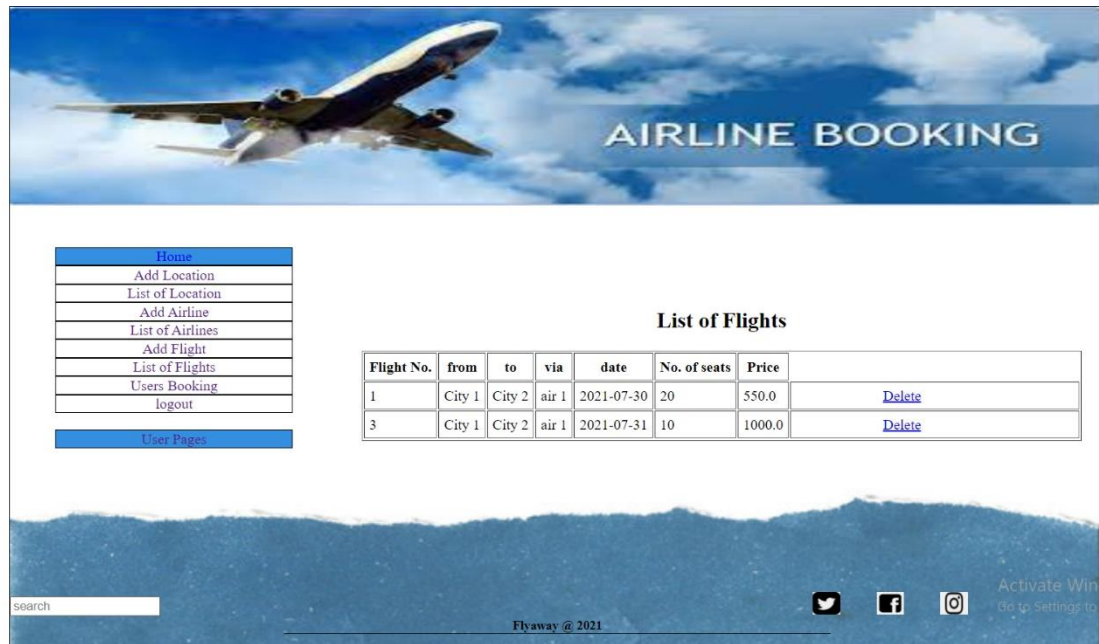
14. Add new flight page:

```

flightServlet.java  flightListServlet.java
23 public class flightServlet extends HttpServlet {
24     LocationDAO locationDB;
25     AireLineDAO airLineDB;
26     FlightDAO flightDB;
27     List<Locations> list;
28     List<AireLine> airList;
29
30     public void init() {
31         locationDB = new LocationDAO();
32         airLineDB = new AireLineDAO();
33         flightDB = new FlightDAO();
34     }
35
36     protected void doPost(HttpServletRequest request, HttpServletResponse response)
37         throws ServletException, IOException {
38
39         String fromLoc = request.getParameter("from");
40         String toLoc = request.getParameter("to");
41         String airline = request.getParameter("airline");
42         String flight_date = request.getParameter("date");
43         String no_seats = request.getParameter("no_seats");
44         String price = request.getParameter("price");
45
46         try {
47             Flight f = new Flight(fromLoc, toLoc, Integer.parseInt(airline), Integer.parseInt(no_seats), flight_date, price);
48             if(flightDB.add(f))
49             {
50                 response.sendRedirect("./listflights");
51             }else {
52                 RequestDispatcher dispatcher = request.getRequestDispatcher("flightForm.jsp");
53                 dispatcher.forward(request, response);
54             }
55         } catch (SQLException | IOException | ServletException e) {
56             // TODO Auto-generated catch block
57             e.printStackTrace();
58         }
59     }
60
61     protected void doGet(HttpServletRequest request, HttpServletResponse response)
62         throws ServletException, IOException {
63
64         HttpSession session = request.getSession();
65         boolean adminLogin = false;
66         if(session.getAttribute("adminLogin") != null) {

```

15. list of all flights

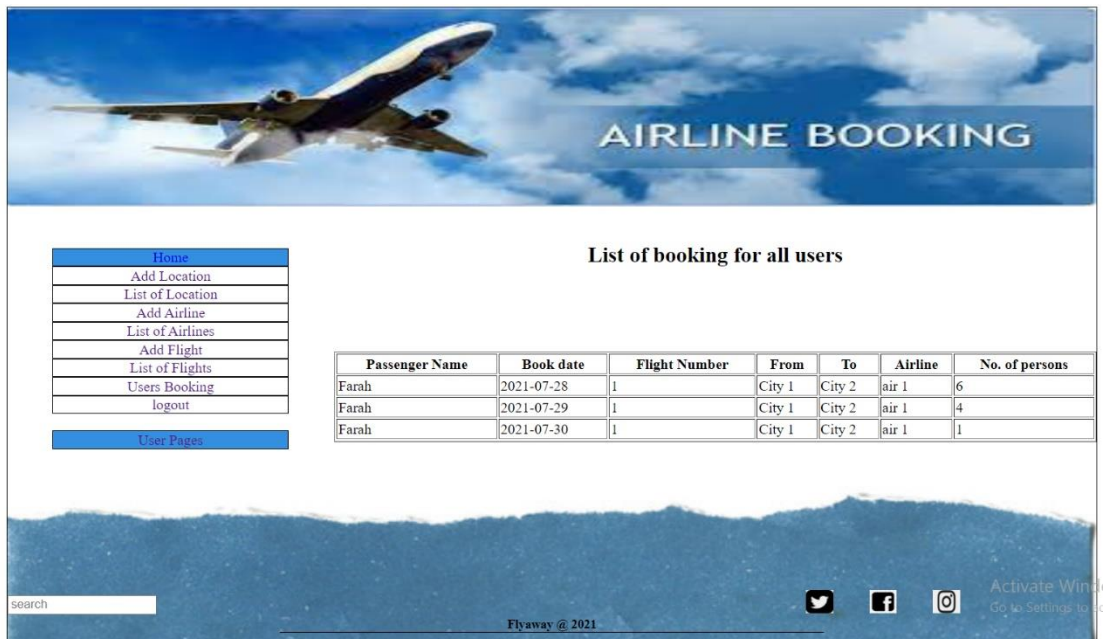


```

flightServlet.java  flightListServlet.java
1  package flyaway.admin.pages;
2
3
4  import java.io.IOException;
22
23  public class flightListServlet extends HttpServlet {
24      FlightDAO fdb = null;
25      public void init() {
26          fdb = new FlightDAO ();
27      }
28
29
30      protected void doPost(HttpServletRequest request, HttpServletResponse response)
31          throws ServletException, IOException {
32
33      }
34
35      protected void doGet(HttpServletRequest request, HttpServletResponse response)
36          throws ServletException, IOException {
37
38          HttpSession session = request.getSession();
39          boolean adminLogin = false;
40          if(session.getAttribute("adminLogin") != null) {
41              adminLogin= (boolean)session.getAttribute("adminLogin");
42          }
43
44          if(!adminLogin){
45              response.sendRedirect(request.getContextPath() + "/admin/login");
46          }else {
47              RequestDispatcher dispatcher = request.getRequestDispatcher("flightList.jsp");
48              List<Flight> list;
49              try {
50                  list = fdb.getflight();
51                  request.setAttribute("listFlights", list);
52                  dispatcher.forward(request, response);
53              } catch (SQLException e) {
54                  // TODO Auto-generated catch block
55                  e.printStackTrace();
56              }
57          }
58      }
59
60  }
61

```


16. List of all booking done by users



The screenshot displays a web application titled "AIRLINE BOOKING". It features a navigation menu on the left with options: Home, Add Location, List of Location, Add Airline, List of Airlines, Add Flight, List of Flights, Users Booking, and logout. The main content area is titled "List of booking for all users" and contains a table with the following data:

Passenger Name	Book date	Flight Number	From	To	Airline	No. of persons
Farah	2021-07-28	1	City 1	City 2	air 1	6
Farah	2021-07-29	1	City 1	City 2	air 1	4
Farah	2021-07-30	1	City 1	City 2	air 1	1

The footer includes a search bar, social media icons for Twitter, Facebook, and Instagram, and a copyright notice "Flyaway @ 2021".

```

1 <%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
2 <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
3
4 <html>
5   <head>
6     <style>
7       <%@ include file='style.css' %>
8     </style>
9   </head>
10
11   <body>
12     <div class="body">
13       <div class="header">
14         
15       </div>
16
17       <div class="mainContent">
18         <div class="leftSide">
19           <ul>
20             <%@ include file='admin_menu.html' %>
21           </ul>
22         </div>
23         <div class="main">
24           <c:if test="${listBooks != null}">
25             <h2>List of booking for all users</h2>
26             <table border="1" width="100%">
27               <tr>
28                 <th>Passenger Name</th>
29                 <th>Book date</th>
30                 <th>Flight Number</th>
31                 <th>From</th>
32                 <th>To</th>
33                 <th>Airline</th>
34                 <th>No. of persons</th>
35               </tr>
36               <c:forEach var="book" items="${listBooks}">
37                 <tr>
38                   <td><c:out value="${book.passenger.name}" /></td>
39                   <td><c:out value="${book.bookdate}" /></td>
40                   <td><c:out value="${book.flight.id}" /></td>
41                   <td><c:out value="${book.from}" /></td>
42                   <td><c:out value="${book.to}" /></td>
43                   <td><c:out value="${book.airline}" /></td>
44                   <td><c:out value="${book.noOfPersons}" /></td>
45                 </tr>
46               </c:forEach>
47             </table>
48           </c:if>
49         </div>
50       </div>
51     </body>
52   </html>

```

