

## FlyAway (An Airline Booking Portal)

### githubLink:

<https://github.com/ramani04/simplilern/tree/main/FlyAway>

### dataBase.java

```
package com.database;
```

```
import java.sql.Connection;
```

```
import java.sql.DriverManager;
```

```
import java.sql.ResultSet;
```

```
import java.sql.SQLException;
```

```
import java.sql.Statement;
```

```
import java.util.ArrayList;
```

```
import java.util.HashMap;
```

```
import java.util.List;
```

```
import com.String.StringUtil;
```

```
public class database {
```

```
    public Connection con=null;
```

```
    public Statement st=null;
```

```
    public database() throws ClassNotFoundException, SQLException{
```

```
        Class.forName("com.mysql.jdbc.Driver");
```

```
        con=DriverManager.getConnection("jdbc:mysql://localhost:3306/flyaway","root","ramani44");
```

```
        System.out.println("connection established with database");
```

```
        st=con.createStatement();
```

```

    }

    public List<String[]> getAvailableFlights(String f, String t, String d) {

        List<String[]> flights=new ArrayList<>();

        String query="SELECT * FROM flyaway.flights where fromf='"+f+"' and
        tof='"+t+"' and datef='"+d+"'";

        try {

            ResultSet rs=st.executeQuery(query);

            if(rs.next()) {

                String[] flight=new String[3];

                flight[0]=rs.getString("name");

                flight[1]=rs.getString("timef");

                flight[2]=rs.getString("price");

                flights.add(flight);

                return flights;

            }

        } catch (SQLException e) {

            e.printStackTrace();

        }

        return null;

    }

```

```

public HashMap<String, String> checkUser(String email, String password) {

    HashMap<String,String> user=null;

```

```
String query="select * from user where email='"+email+"' and  
password='"+password+"'";
```

```
try {  
    ResultSet rs=st.executeQuery(query);  
    if(rs.next()) {  
        user=new HashMap<>();  
        user.put("name", rs.getString("name"));  
        user.put("email",rs.getString("email"));  
        user.put("phno",rs.getString("phno"));  
        user.put("adno",rs.getString("adno"));  
    }  
    return user;  
} catch (SQLException e) {  
    e.printStackTrace();  
}
```

```
return user;  
}
```

```
public boolean insertUser(HashMap<String, String> user) {
```

```
String query="INSERT INTO user (email, password, name, phno, adno)  
values('"+user.get("email")+"','"+user.get("password")+"','"+user.get("name")+"','"+user.get  
("phno")+"','"+user.get("adno")+"')";
```

```
try {  
    st.execute(query);  
    return true;  
} catch (SQLException e) {  
    e.printStackTrace();
```

```

    }

    return false;
}

public boolean checkAdmin(String email, String password) {

    try {

        ResultSet rs=st.executeQuery("select * from admin where email='"+email+"'
and password='"+password+"'");

        if(rs.next())

            return true;

    } catch (SQLException e) {

        e.printStackTrace();

    }

    return false;
}

```

```

public boolean changeAdminPassword(String email, String password) {

    try {

        ResultSet rs=st.executeQuery("select * from admin where
email='"+email+"'");

        if(!rs.next()) {

            return false;

        }

        st.execute("update admin set password='"+password+"' where
email='"+email+"'");

        return true;

    } catch (SQLException e) {

        e.printStackTrace();

    }
}

```

```

    }

    return false;
}

public boolean insertFlight(HashMap<String, String> flight) throws SQLException {

    //PreparedStatement stm=con.prepareStatement("INSERT INTO 'flyaway.flights'
('name', 'from', 'to', 'date', 'time', 'price') values(?,?,?,?,?,?)");

    //String sql="INSERT INTO flights ('name','from','to','date','time','price')
values('"+flight.get("name")+"','"+flight.get("from")+"','"+flight.get("to")+"','"+flight.get("date")+"','"+flight.get("time")+"','"+flight.get("price")+"');";

    String query1 = "INSERT INTO flights (name, fromf, tof, datef, timef, price) VALUES" +
" ("

        + StringUtil.fixSqlFieldValue(flight.get("name")) + "," + " " +
StringUtil.fixSqlFieldValue(flight.get("from")) + "," + " " +

        + StringUtil.fixSqlFieldValue(flight.get("to")) + "," + " " +
StringUtil.fixSqlFieldValue(flight.get("date")) + "," + " " +

        + StringUtil.fixSqlFieldValue(flight.get("time")) + "," + " " +
StringUtil.fixSqlFieldValue(flight.get("price")) + ")";

    //String sql="INSERT INTO `flyaway`.`flights` (`name`, `fromf`, `tof`, `datef`, `timef`,
`price`) VALUES ('indigo', 'hyd', 'viz', '2021-04-08', '10:00', '2000');";

    System.out.println(flight.get("date"));

    System.out.println(flight.get("time"));

    //String query1="INSERT into flyaway.flights (name,from,to,date,time,price)
values('indigo','hyd','viz','24-02-2022','10:30','2000')";

    try {

        //stm.execute();

        st.execute(query1);

        return true;

    } catch (SQLException e) {

        System.out.print("error");

        e.printStackTrace();
    }
}

```

```
    }  
    return false;  
}  
}
```

## **AdminLogin.java**

```
package com.Servlets;
```

```
import java.io.IOException;  
import java.sql.SQLException;  
import javax.servlet.ServletException;  
import javax.servlet.annotation.WebServlet;  
import javax.servlet.http.HttpServlet;  
import javax.servlet.http.HttpServletRequest;  
import javax.servlet.http.HttpServletResponse;  
import javax.servlet.http.HttpSession;
```

```
import com.database.database;
```

```
@WebServlet("/AdminLogin")
```

```
public class AdminLogin extends HttpServlet {  
    private static final long serialVersionUID = 1L;
```

```
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws  
ServletException, IOException {
```

```
    String email=request.getParameter("email");
```

```

String password=request.getParameter("password");

try {

    database dao=new database();

    if(dao.checkAdmin(email,password)) {

        response.sendRedirect("AdminHome.jsp");

    }

    else {

        HttpSession session=request.getSession();

        session.setAttribute("message", "Invalid Details");

        response.sendRedirect("AdminPage.jsp");

    }

} catch (ClassNotFoundException | SQLException e) {

    // TODO Auto-generated catch block

    e.printStackTrace();

}

}

}

```

## **FlightList.java**

```

package com.Servlets;

import java.io.IOException;

import java.sql.SQLException;

import java.util.List;

```

```
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
```

```
import com.database.database;
```

```
@WebServlet("/FlightList")
```

```
public class FlightList extends HttpServlet {
```

```
    private static final long serialVersionUID = 1L;
```

```
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
```

```
        String from=request.getParameter("from");
```

```
        String to=request.getParameter("to");
```

```
        String departure=request.getParameter("departure");
```

```
        try {
```

```
            database dao = new database();
```

```
            List<String[]> flights=dao.getAvailableFlights(from, to, departure);
```

```
            HttpSession session=request.getSession();
```

```
            session.setAttribute("flights", flights);
```

```
        } catch (ClassNotFoundException | SQLException e) {
```

```
            // TODO Auto-generated catch block
```

```
            e.printStackTrace();
```



```

        }
        response.sendRedirect("FlightList.jsp");
    }
}

```

## **ForgotPassword.java**

```

package com.Servlets;

import javax.servlet.annotation.WebServlet;
import java.io.IOException;
import java.sql.SQLException;

import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

import com.database.database;

@WebServlet("/ForgotPassword")
public class ForgotPassword extends HttpServlet {
    private static final long serialVersionUID = 1L;

    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
    ServletException, IOException {

        String email=request.getParameter("email");
        String password=request.getParameter("password");

        try {
            database dao=new database();

```

```

        HttpSession session=request.getSession();
        if(dao.changeAdminPassword(email,password)) {
            session.setAttribute("message", "Password Changed
Successfully");
        }
        else {
            session.setAttribute("message", "Invalid Details");
        }
    } catch (ClassNotFoundException | SQLException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
    response.sendRedirect("AdminPage.jsp");

}

}

```

### **InsertFlight.java**

```

package com.Servlets;

import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import java.io.IOException;
import java.sql.SQLException;
import java.util.HashMap;

import javax.servlet.ServletException;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

```

```
import javax.servlet.http.HttpSession;
```

```
import com.database.database;
```

```
@WebServlet("/InsertFlight")
```

```
public class InsertFlight extends HttpServlet {
```

```
    private static final long serialVersionUID = 1L;
```

```
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws  
        ServletException, IOException {
```

```
        String name=request.getParameter("name");
```

```
        String from=request.getParameter("from");
```

```
        String to=request.getParameter("to");
```

```
        String departure=request.getParameter("departure");
```

```
        String time=request.getParameter("time");
```

```
        String price=request.getParameter("price");
```

```
        HashMap<String,String> flight=new HashMap<>();
```

```
        flight.put("name", name);
```

```
        flight.put("from", from);
```

```
        flight.put("to", to);
```

```
        flight.put("date", departure);
```

```
        flight.put("time", time);
```

```
        flight.put("price", price);
```

```
        try {
```

```
            database dao=new database();
```

```
            HttpSession session=request.getSession();
```

```
            if(dao.insertFlight(flight)) {
```

```

        session.setAttribute("message", "Flight Added Successfully");
    }
    else {
        session.setAttribute("message", "Invalid Details");
    }
} catch (ClassNotFoundException | SQLException e) {
    // TODO Auto-generated catch block
    System.out.print("error");
    e.printStackTrace();
}
response.sendRedirect("AdminHome.jsp");

}

}

```

## Logout.java

```

package com.Servlets;

import javax.servlet.annotation.WebServlet;
import java.io.IOException;

import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

```

```

@WebServlet("/Logout")

public class Logout extends HttpServlet {

    private static final long serialVersionUID = 1L;

    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
    ServletException, IOException {

        HttpSession session=request.getSession();

        session.setAttribute("user", null);

        response.sendRedirect("HomePage.jsp");

    }

}

```

## **UserLogin.java**

```

package com.Servlets;

import javax.servlet.annotation.WebServlet;
import java.io.IOException;
import java.sql.SQLException;
import java.util.HashMap;

import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

```

```

import com.database.database;

@WebServlet("/UserLogin")

public class UserLogin extends HttpServlet {

    private static final long serialVersionUID = 1L;

    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
    ServletException, IOException {

        String email=request.getParameter("email");

        String password=request.getParameter("password");

        try {

            database dao=new database();

            HashMap<String,String> user=dao.checkUser(email,password);

            HttpSession session=request.getSession();

            if(user!=null) {

                session.setAttribute("user", user);

                response.sendRedirect("HomePage.jsp");

            }

            else {

                session.setAttribute("message", "Invalid Details");

                response.sendRedirect("UserPage.jsp");

            }

        } catch (ClassNotFoundException | SQLException e) {

            // TODO Auto-generated catch block

            e.printStackTrace();

        }

    }

}

```

## UserRegisration.java

```
package com.Servlets;
```

```
import javax.servlet.annotation.WebServlet;
```

```
import java.io.IOException;
```

```
import java.sql.SQLException;
```

```
import java.util.HashMap;
```

```
import javax.servlet.ServletException;
```

```
import javax.servlet.http.HttpServlet;
```

```
import javax.servlet.http.HttpServletRequest;
```

```
import javax.servlet.http.HttpServletResponse;
```

```
import javax.servlet.http.HttpSession;
```

```
import com.database.database;
```

```
@WebServlet("/UserRegistration")
```

```
public class UserRegistration extends HttpServlet {
```

```
    private static final long serialVersionUID = 1L;
```

```
    protected void doPost(HttpServletRequest request, HttpServletResponse response)  
throws ServletException, IOException {
```

```
        String email=request.getParameter("email");
```

```
        String password=request.getParameter("password");
```

```
        String name=request.getParameter("name");
```

```
        String phno=request.getParameter("phno");
```

```
        String adno=request.getParameter("adno");
```

```
        HashMap<String,String> user=new HashMap<>();
```

```
        user.put("email", email);
```

```

        user.put("password", password);
        user.put("name", name);
        user.put("phno", phno);
        user.put("adno", adno);

        try {
            database dao=new database();
            boolean result=dao.insertUser(user);
            HttpSession session=request.getSession();
            if(result) {
                session.setAttribute("message", "User Added Successfully");
            }
            else {
                session.setAttribute("message","Invalid Details");
            }
        } catch (ClassNotFoundException | SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
        response.sendRedirect("UserPage.jsp");
    }

}

```

### **StringUtil.java**

```

package com.String;

public class StringUtil {
    public static String fixSqlFieldValue(String value) {
        if (value == null) {
            return null;
        }
        int length = value.length();
    }
}

```



```

        StringBuffer fixedValue = new StringBuffer((int)(length*1.1));
        for(int i = 0 ; i < length ;i++) {
            char c = value.charAt(i);
            if ( c == '\\' ) {
                fixedValue.append("\\");
            }else {
                fixedValue.append(c);
            }
        }
        return fixedValue.toString();
    }

    public static String encodeHtmlTag(String tag) {
        if (tag==null)
            return null;
        int length = tag.length();
        StringBuffer encodedTag = new StringBuffer(2 * length);
        for(int i = 0 ; i < length;i++) {
            char c = tag.charAt(i);
            if(c=='<')
                encodedTag.append("<");
            else if(c=='>')
                encodedTag.append(">");
            else if(c=='&')
                encodedTag.append("&");
            else if(c=='"')
                encodedTag.append(""");
            else if(c==' ')
                encodedTag.append(" ");
            else
                encodedTag.append(c);
        }
        return encodedTag.toString();
    }
}

```

## AdminHome.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Admin Home</title>
</head>
<body >
<br>

```

```

<a href=HomePage.jsp style="color:black;text-decoration:none ;font-size:35px;font-
weight:bold;">FlyAway</a>
<br><br>
<center>
<h1>Insert New Flight Details</h1>

<div style="border:3px solid black;width:25%;border-radius:20px;padding:20px"
align="center">
<form action=InsertFlight method=post>
    <label for=name>Name :-</label> <input type="text" name=name id=name
/><br><br>
    <label for=from>From :-</label> <input type="text" name=from id=from /><br><br>
    <label for=to>To :-</label> <input type="text" name=to id=to /><br><br>
    <label for=departure>Departure :-</label> <input type="date" name=departure
id=departure /><br><br>
    <label for=time>Time :-</label> <input type="time" name=time id=time /><br><br>
    <label for=price>Price :-</label> <input type="text" name=price id=price /><br><br>
    <input type=submit value=submit /> <input type=reset />
</form>
</div>
</center>
<%
    String message=(String)session.getAttribute("message");
    if(message!=null){
%>
<p style="color:silver;"><%=message %></p>
<%
        session.setAttribute("message", null);
    }
%>
</body>
</html>

```

## AdminPage.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Admin Page</title>
</head>
<body >
<br>
<a href=HomePage.jsp style="color:black;text-decoration:none ;font-size:35px;font-
weight:bold;">FlyAway</a>
<br><br>

```

```

<center>
<h2>Admin Login</h2>
<div style="border:3px solid black;width:25%;border-radius:20px;padding:20px"
align="center">
<form action=AdminLogin method=post>
    <label for=email>Email :-</label> <input type="email" name=email id=email
/><br><br>
    <label for=pass>Password :-</label> <input type="password" name=password
id=pass /><br><br>
    <input type=submit value=submit /> <input type=reset />
</form>
</div>
</center><br>
<a href=ForgotPassword.jsp style="font-size:25;color:red;">Forgot Password</a>

<%
    String message=(String)session.getAttribute("message");
    if(message!=null){
%>
<p style="color:silver;"><%=message %></p>
<%
        session.setAttribute("message", null);
    }
%>
</body>
</html>

```

## BookFlight.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@ page import="java.util.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>FlyAway</title>
</head>
<body >
<br>
<a href=HomePage.jsp style="color:black;text-decoration:none ;font-size:35px;font-
weight:bold;">FlyAway</a>
<br><br>

<%
    @SuppressWarnings("unchecked")
    HashMap<String,String> user=(HashMap<String,String>)session.getAttribute("user");
    if(user==null){

```

```

        response.sendRedirect("UserPage.jsp");
    }
%>
<p align="center" style="color:green;font-size:40px;font-weight:bold">Flight Booked
Successfully</p>
</body>
</html>

```

## FilghtList.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<%@ page import="java.util.*" %>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Flight List</title>
</head>
<body >
<br>
<a href=HomePage.jsp style="color:black;text-decoration:none;font-size:35px;font-
weight:bold;">FlyAway</a>
<br><br>
<%
    @SuppressWarnings("unchecked")
    List<String[]> flights=(List<String[]>)session.getAttribute("flights");
    if(flights!=null){
%>

<h1>Available Flights</h1>

<center>
<table border="1">
<tr>
    <th>Name</th>
    <th>Time</th>
    <th>Price</th>
</tr>

<%
    for(String[] flight:flights){
%>

<tr>

```

```

<td><%=flight[0]%></td>
<td><%=flight[1]%></td>
<td><%=flight[2]%></td>
</tr>
</table>
</center>
<center><a href=BookFlight.jsp>Book Now</a> </center>
<%
    }
%>

<%
    }
    else{
%>
<h1>There are no available flights</h1>
<%
    }
%>
</body>
</html>

```

## ForgotPassword.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body >
<br>
<a href=HomePage.jsp style="color:black;text-decoration:none ;font-size:35px;font-
weight:bold;">FlyAway</a>
<br><br>
<center>
<div style="border:3px solid black;width:25%;border-radius:20px;padding:20px"
align="center">
<form action=ForgotPassword method=post>
    <label for=email>Email :-</label> <input type="email" name=email id=email
/><br><br>
    <label for=pass>New Password :-</label> <input type="password" name=password
id=pass /><br><br>

```

```

        <input type=submit value=submit /> <input type=reset />
    </form>
</div>
</center>
</body>
</html>

```

## HomePage.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@ page import="java.util.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>FlyAway</title>
</head>
<body >
<h1>FlyAway</h1>

<div align="right">
<a href="AdminPage.jsp">Admin Login</a>
</div>

<%
    @SuppressWarnings("unchecked")
    HashMap<String,String> user=(HashMap<String,String>)session.getAttribute("user");
    if(user!=null){
%>
<p>Welcome <%=user.get("name") %></p>
<a href="Logout">Logout</a>
<%
        }else{
%>
<a href=UserPage.jsp>User Login</a>
<%
        }
%>
<br><br>
<center>
<div style="border:5px solid black;width:25%;border-radius:20px;padding:20px"
align="center">
<form action=FlightList method=post>
    <label for=from>From :-</label> <input type=text name=from id=from/><br><br>
    <label for=to>To :-</label> <input type=text name=to id=to/><br><br>
    <label for=departure>Departure :-</label> <input type=date name=departure
id=departure/><br><br>

```

```

        <label for=travellers>Travellers :-</label> <input type=number name=travellers
id=travellers/><br><br>
        <input type=submit value=Search /> <input type=reset />
</form>
</div>
</center>
</body>
</html>

```

## UserPage.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body >
<br>
<a href=HomePage.jsp style="color:black;text-decoration:none ;font-size:35px;font-
weight:bold;">FlyAway</a>
<br><br>
<center>
<h2>User Login</h2>
<div style="border:2px solid black;width:25%;border-radius:20px;padding:20px"
align="center">
<form action=UserLogin method=post >
    <table >
        <tr>
            <td><label for=email>Email</label><br></td>
            <td><input type="email" name=email id=email /></td>
        </tr>
        <tr>
            <td><label for=pass>Password</label><br></td>
            <td><input type="password" name=password id=pass /></td>
        </tr>

        <tr>
            <td><input type=submit value=submit /></td>
            <td><input type=reset /></td>
        </tr>

```

```

</table>

</form>
</div>
</center>
<br><br>
<i>New User-Create account</i>
<h4><a href=UserRegistration.jsp style="font-size:25;color:red;">Create Account</a></h4>

<%
    String message=(String)session.getAttribute("message");
    if(message!=null){
%>
<p style="color:silver;"><%=message %></p>
<%
        session.setAttribute("message", null);
    }
%>
</body>
</html>

```

## UserRegistrion.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body >
<br>
<a href=HomePage.jsp style="color:black;text-decoration:none ;font-size:35px;font-
weight:bold;">FlyAway</a>
<br><br>
<center>
<div style="border:3px solid black;width:25%;border-radius:20px;padding:20px"
align="center">
<form action=UserRegistration method=post>
    <label for=email>Email :-</label> <input type="email" name=email id=email
/><br><br>
    <label for=pass>Password :-</label> <input type="password" name=password
id=pass /><br><br>
    <label for=name>Name :-</label> <input type="text" name=name id=name
/><br><br>
    <label for=phno>Phone No. :-</label> <input type="text" name=phno id=phno
/><br><br>

```



```
        <label for=adno>Aadhaar No. :-</label> <input type="text" name=adno id=adno
/><br><br>
        <input type=submit value=submit /> <input type=reset />
</form>
</div>
</center>
</body>
</html>
```