```
Dao.java >> Dao class having all the database related objects
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 org.simplilearn.workshop.util.StringUtil;
public class Dao {
      public Connection con=null;
public Statement st=null;
      public Dao() throws ClassNotFoundException, SQLException{
Class.forName("com.mysql.cj.jdbc.Driver");
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/flyaway","root","Host");
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("phn
")+"',""+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 guery1="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;
      }
}
All Servlet Classes
AdminLogin.java >>> Java Code for admin login page
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.Dao;
@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 {
                    Dao dao=new Dao();
                    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.Dao;
@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 {
                     Dao dao = new Dao();
                     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.Dao:
@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 {
                       Dao dao=new Dao();
```

```
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.Dao;
@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> 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 {
                         Dao dao=new Dao();
                         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.Dao; @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 {
                  Dao dao=new Dao();
                  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();
             }
        }
}
UserRegistration.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.Dao;
@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("adno", adno);
user.put("phno", phno);
try {
                      Dao dao=new Dao();
                      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 org.simplilearn.workshop.util;
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("<");</pre>
                     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();
                                      }
}
           -----
All JSP Pages
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><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>
         <label for=from>From :-</label> <input type="text" name=from id=from /><br>
         <label for=to>To:-</label> <input type="text" name=to id=to /><br>
          <label for=departure>Departure :-</label> <input type="date" name=departure id=departure</pre>
/><br><br>
          <label for=time>Time :-</label> <input type="time" name=time id=time /><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){
%>
<%=message %>
<%
                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){
%>
```

```
<%=message %>
<%
                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/>ca 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>)session.getAttribute("user");
          if(user==null){
                 response.sendRedirect("UserPage.jsp");
          }
%>
Flight Booked Successfully
</body>
</html>
```

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```
FlightList.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>>
<%
         @SuppressWarnings("unchecked")
         List<String[]> flights=(List<String[]>)session.getAttribute("flights");
         if(flights!=null){
%>
<h1>Available Flights</h1>
<center>
Name
        Time
         Price
<%
         for(String[] flight:flights){
%>
```

```
</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>>
<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>
       <label for=pass>New Password :-</label> <input type="password" name=password id=pass")</pre>
/><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){
%>
Welcome <%=user.get("name") %>
<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>
       <label for=to>To :-</label> <input type=text name=to id=to/><br>
<label for=departure>Departure :-</label> <input type=date name=departure</pre>
id=departure/><br>
       <label for=travellers>Travellers :-</label> <input type=number name=travellers</pre>
id=travellers/><br><br>
        <input type=submit value=Search /> <input type=reset />
</form>
</div>
</center>
</body>
</html>
UserPage.jsp<%@
                                                       contentType="text/html;
                      page
                               language="
                                              java"
                                                                                  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>>
<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 >
<label for=email>Email</label><br>
<input type="email" name=email id=email />
<label for=pass>Password</label><br>
="password" name=password id=pass />
<input type=submit value=submit /><input type=reset />
</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){
%>
<%=message %>
<%
                session.setAttribute("message", null);
         }
%>
</body>
</html>
UserRegistration.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>
<label for=pass>Password :-</label> <input type="password" name=password id=pass</pre>
/><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><ebr>
```

< 6	abel for=adno>Aadhaar No. :- <input id="adno" name="adno" type="text"/>
<ii>1i&gt;</ii>	nput type=submit value=submit /> <input type="reset"/>
/html>	