

```

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","u
        sha");
        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();
        }
    }
}

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        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();
        }
    }

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    }
    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;
    }
}

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    } catch (SQLException e) {
        System.out.print("error");
        e.printStackTrace();
    }
    return false;
}
}

```

```

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();
        }
    }
}

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```
    }  
  
    }  
  
}
```

```
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");  
    }  
}
```

```

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");
    }
}

```

```

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,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");
    }
}

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}
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```
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");
    }
}
```

```
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();
}
}
}

```

```

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

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");
}
}

```

```

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("<");  
        else if(c=='>')  
            encodedTag.append(">");  
        else if(c=='&')  
            encodedTag.append("&amp;");  
        else if(c=='"')  
            encodedTag.append("&quot;");  
        else if(c==' ')  
            encodedTag.append("&nbsp;");  
        else  
            encodedTag.append(c);  
    }  
    return encodedTag.toString();  
}  
}
```