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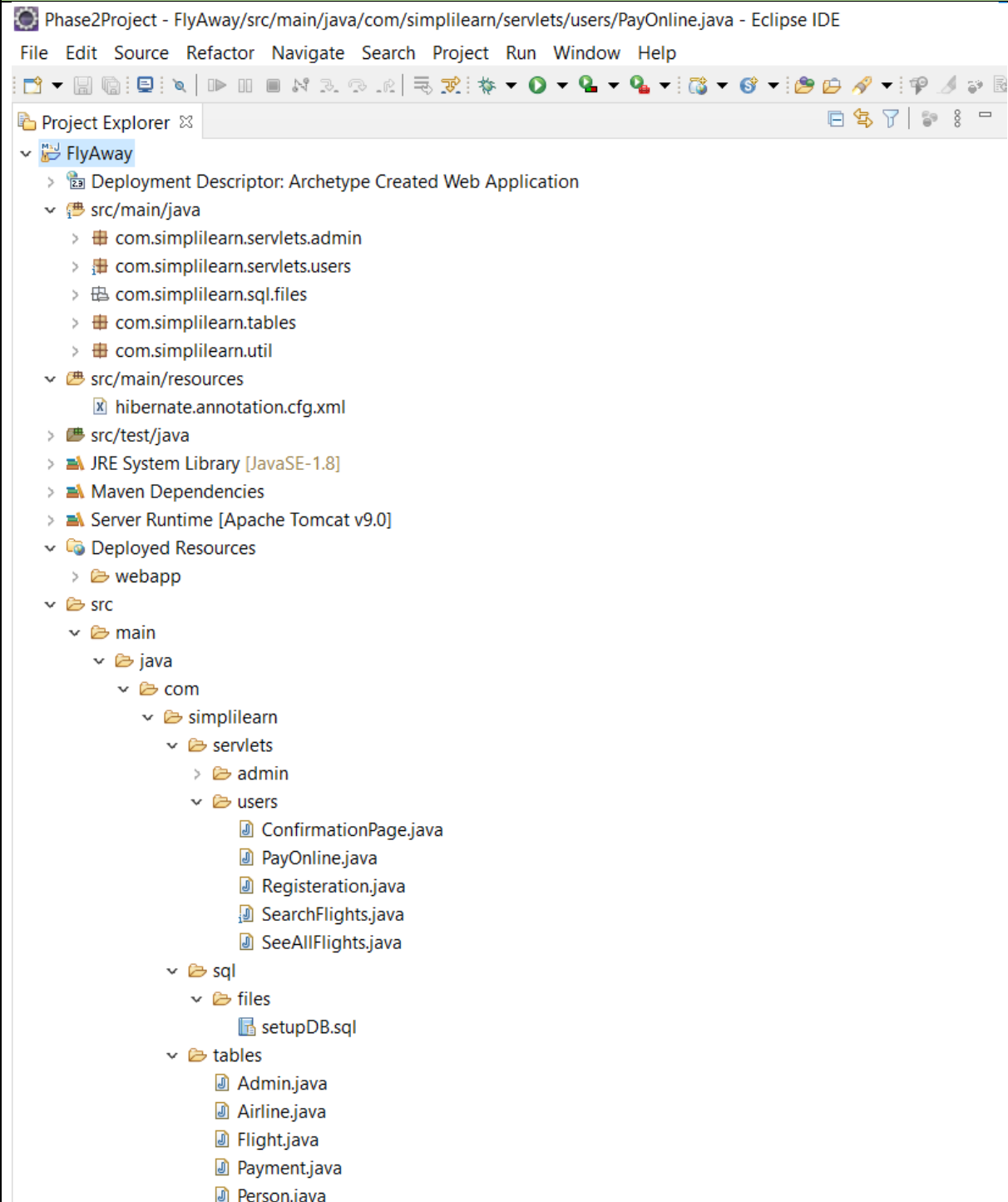
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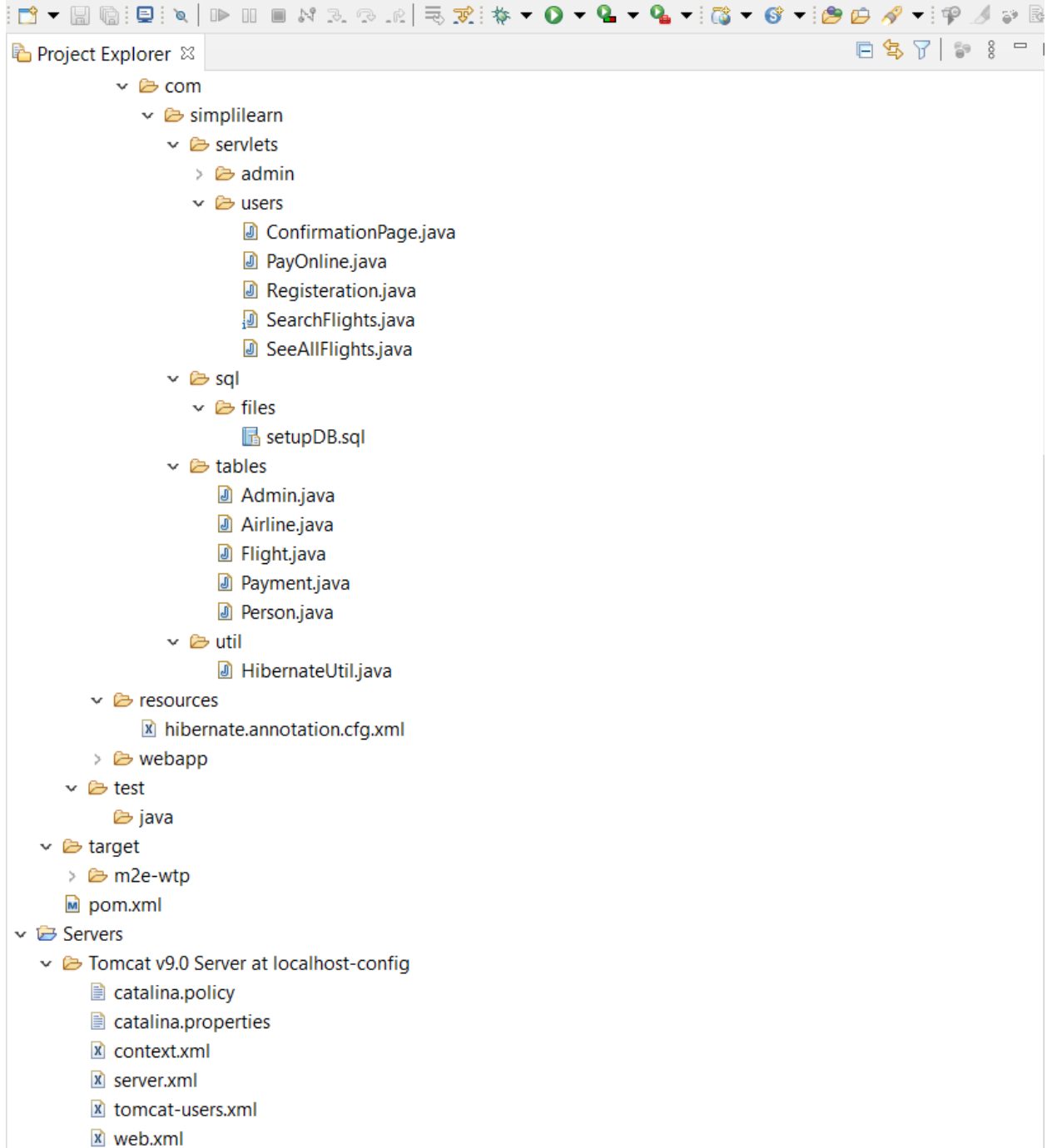
1. Github link:

<https://github.com/kumarabhishek7885/flyaway1.git>

2. Project code:

Folder Structure





3. Pom.xml:

```
<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
<modelVersion>4.0.0</modelVersion>

    <groupId>com.simplilearn</groupId>
    <artifactId>flyaway</artifactId>
    <packaging>war</packaging>
    <version>0.0.1-SNAPSHOT</version>
    <name>flyaway Maven Webapp</name>
    <url>http://maven.apache.org</url>
    <dependencies>
        <dependency>
            <groupId>junit</groupId>
            <artifactId>junit</artifactId>
            <version>3.8.1</version>
            <scope>test</scope>
        </dependency>
        <!-- hibernate-core -->
        <dependency>
            <groupId>org.hibernate</groupId>
            <artifactId>hibernate-core</artifactId>
            <version>5.4.1.Final</version>
        </dependency>

        <!-- mysql-connector-java -->
        <dependency>
            <groupId>mysql</groupId>
            <artifactId>mysql-connector-java</artifactId>
            <version>8.0.21</version>
        </dependency>

        <dependency>
            <groupId>javax.servlet</groupId>
            <artifactId>servlet-api</artifactId>
```

```
        <version>2.5</version>
      </dependency>

</dependencies>

<build>
  <finalName>flyaway</finalName>

  <sourceDirectory>src/main/java</sourceDirectory>
  <plugins>
    <plugin>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.5.1</version>
    <configuration>
      <source>1.8</source>
      <target>1.8</target>
    </configuration>
  </plugin>
</plugins>
</build>
</project>
```

4. Web.xml:

```
<!DOCTYPE web-app PUBLIC
"-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
"http://java.sun.com/dtd/web-app_2_3.dtd" >

<element>
<web-app>
<display-name>Archetype Created Web Application</display-name>

  <servlet>
    <servlet-name>login</servlet-name>
    <display-name>login</display-name>
    <description></description>
    <servlet-class>com.simplilearn.servlets.admin.login</servlet-class>
  </servlet>

  <servlet>
    <servlet-name>changedpassword</servlet-name>
<display-name>changedpassword</display-name>
    <description></description>
    <servlet-class>com.simplilearn.servlets.admin.changedpassword</servlet-class>
  </servlet>

  <servlet-mapping>
    <servlet-name>login</servlet-name>
    <url-pattern>/login</url-pattern>
  </servlet-mapping>

  <servlet-mapping>
    <servlet-name>changedpassword</servlet-name>
    <url-pattern>/changedpassword</url-pattern>
  </servlet-mapping>
</web-app>
</element>
```

5. Hibernate.annotation.cfg.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-configuration PUBLIC
    "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
    "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">

<hibernate-configuration>
    <session-factory>
        <property
name="hibernate.connection.driver_class">com.mysql.cj.jdbc.Driver</property>
        <property
name="hibernate.connection.url">jdbc:mysql://localhost:3306/flyawaydb</property>
        <property name="hibernate.connection.username">root</property>
        <property name="hibernate.connection.password">Abhi18@ayaan19</property>
        <property name="hibernate.connection.pool_size">1</property>
        <property
name="hibernate.current_session_context_class">thread</property>
        <property name="hibernate.show_sql">true</property>
        <property
name="hibernate.dialect">org.hibernate.dialect.MySQL5Dialect</property>
        <property
name="hibernate.id.new_generator_mappings">false</property>
        <mapping class="com.simplilearn.tables.Admin" />
        <mapping class="com.simplilearn.tables.Airline" />
        <mapping class="com.simplilearn.tables.Flight" />
        <mapping class="com.simplilearn.tables.Payment" />
        <mapping class="com.simplilearn.tables.Person" />
    </session-factory>
</hibernate-configuration>
```

6. Index.html:

```
<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>Welcome To Fly Away Ticket Booking Portal</title>

</head>


<body bgcolor="cyan" >

<center>

_____ <a href="Login.html">

<input type="submit" value="Admin-Login">

</a>

_____ <hr>

_____ <h1>Search For Flights</h1>

_____ <form name="searchForFlights" method="GET" action="search-flights">

_____ Flying From : <input type="text" name="source"> <br/>

_____ Flying To : <input type="text" name="destination"> <br/>

_____ Your Max Price : <input type="number" name="price"> <br/>

_____ Flights On or After Date : <input type="date" name="date"> <br/>

_____ <br/>

_____ <input type="submit" value="Search for flights!">

_____ </form>

_____ <form name="seeALLFlights" method="GET" action="see-all-flights">

_____ <input type="submit" value="See ALL Flights">

_____ </form>

</center>

</body>

</html>
```


7. Login.html:

```
<!DOCTYPE html>

<html>
<head>
<meta charset="UTF-8">
<title>Admin Login Page</title>
</head>
<body align="center">
    <a href="index.html">
    <input type="submit" value="Home">
    </a>

    <h1>Admin Login Page</h1>
    <form name="LoginForm" method="POST" action="Login">
        Username: <input type="text" name="username"> <br/>
        Password : <input type="password" name="password"> <br/>
        <br/>
        <input type="submit" value="Login">
    </form>

</body>
</html>
```

8. Login.java:

```
package com.simplilearn.servlets.admin;

import java.io.IOException;
import java.io.PrintWriter;

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

/**
 * Servlet implementation class login
 */

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

    public static boolean isLoggedIn = false;

    public static String password = "1234";
    public static String email =
"Dill@arji.com";

    @Override public void doPost (HttpServletRequest req, HttpServletResponse resp)
throws IOException {
```

```
PrintWriter out = resp.getWriter();

String email = req.getParameter("username");
String pass = req.getParameter("password");

if (email.equals(login.email) &&
pass.equals(login.password)){      isLoggedIn = true;
out.println("You have LoggedIn");

try {

                req.getRequestDispatcher("dashboard.html").forward(req, resp);
        } catch (ServletException e) {
                // TODO Auto-generated catch block
                e.printStackTrace();
        } catch (IOException e) {
                // TODO Auto-generated catch block
                e.printStackTrace();
        }
        } else {      isLoggedIn = false;
out.println("Login Failed : Incorrect email or Password");

        }

        out.close();

    }

}
```

9. Databash.html:

```
<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Admin Dashboard</title>

</head>

<body bgcolor="skyblue" align="center">

    <a href="index.html"><input type="submit" value="Home"></a> |

    <a href="index.html"><input type="submit" value="Logout"></a> |

    <a href="changepassword.html"><input type="submit" value="Change
password"></a> |<br>

    <hr>

</body>

</html>
```

10. Changepassword.html:

```
<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>Admin Login Page</title>

</head>

<body align="center">

    <a href="dashboard.html">Dashboard</a>

    <h1>Change Password</h1>

    <form name="change password" method="POST" action="change-password">
```

```

        New Password : <input type="password" name="password"> <br/>

        Confirm New Password: <input type="password"
name="confirmpassword"> <br/>

        <br/>

        <input type="submit" value="Change password">

    </form>

</body>
</html>

```

11. Changedpassword.java:

```

package com.simplilearn.servlets.admin;
import
java.io.IOException;
import
java.io.PrintWriter;
import javax.servlet.ServletException;
import
javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import
javax.servlet.http.HttpServletRequest;
import
javax.servlet.http.HttpServletResponse;

/**
 * Servlet implementation class changedpassword
 */
@WebServlet("/change-password") public class
changedpassword extends HttpServlet { private
static final long serialVersionUID = 1L;

```

```

    /**
    * @see HttpServlet#HttpServlet()
    */
    public
    changedpassword() {
    super();

        // TODO Auto-generated constructor stub

    }

    /**
    * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
    response)
    */
    protected void doGet(HttpServletRequest request, HttpServletResponse
    response) throws ServletException, IOException {

        // TODO Auto-generated method stub

        response.getWriter().append("Served at:
    ").append(request.getContextPath());

    }

    /**
    * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
    response)
    */
    protected void doPost(HttpServletRequest req, HttpServletResponse resp)
    throws ServletException, IOException {

        // TODO Auto-generated method stub

        PrintWriter out = resp.getWriter();

        String pass =
    req.getParameter("password");        if
    (!login.isLoggedIn){
    out.println("You must login first");

        }        else if (pass.equals("")){
    out.println("Password can't be empty");

```

```

        } else if (login.isLoggedIn && !pass.equals("")){
login.password = pass;          out.println("Password changed. New
Password is "+login.password);    try {
                                Thread.sleep(1000);
                                } catch (InterruptedException e) {
                                // TODO Auto-generated catch block
                                e.printStackTrace();
                                }
        }
        else {
out.println("something went wrong");

        }

try {

req.getRequestDispatcher("passwordverified.html").forward(req, resp);
        } catch (ServletException e) {
// TODO Auto-generated catch block
        e.printStackTrace();
        } catch (IOException e) {
// TODO Auto-generated catch block
        e.printStackTrace();
        }
        out.close();
    }

}

```

12. Verifiedpassword.html:

```
<!DOCTYPE html>

<html>
<head>
<meta charset="ISO-8859-1">
<title>password changed</title>
</head>
<body align="center">
    <h1>your password has been changed successfully </h1>

    <form action="dashboard.html">
        <input type="submit" value="Dashboard">
    </form>
</body>
</html>
```

13. Searchflights.java:

```
package com.simplilearn.servlets.users;

import
java.io.IOException;
import
java.io.PrintWriter;
import java.sql.Date;
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 org.hibernate.Session; import
org.hibernate.SessionFactory;
import
com.simplilearn.tables.Flight; import
com.simplilearn.util.HibernateUtil;

/**
 * Servlet implementation class SearchFlights
 */
@WebServlet("/search-flights") public class
SearchFlights extends HttpServlet {    private
static final long serialVersionUID = 1L;

    /**
 * @see HttpServlet#HttpServlet()
 */    public
SearchFlights() {
    }

    /**
 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
response)
 */
    @SuppressWarnings({ "null", "unchecked" })
    protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        // print writer
        PrintWriter out = response.getWriter();
response.setContentType("text/html");

        String source = request.getParameter("source");
        String destination = request.getParameter("destination");
        String price = request.getParameter("price");

```

```

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

//open a connection
try {
    SessionFactory sFactory =
HibernateUtil.buildSessionFactory();
    Session session =
sFactory.openSession();
    session.beginTransaction();

    String query = "select f from Flight f" +
        " inner join Airline a" +
        " on f.airline=a.id" +
        " and f.numberOfSeats > 0";
    if (source !=null && source.trim().length() > 0) {
        String sourceQuery = " and f.source = '"
+ source + "'";
        query = query.concat(sourceQuery);
    }
    if (destination != null &&
destination.trim().length() > 0) {
        String destinationQuery = " and
f.destination = '" + destination + "'";
        query = query.concat(destinationQuery);
    }
    if (price !=null && price.trim().length() > 0) {
        try {
            Double priceParsed = Double.parseDouble(price);
            String priceQuery = " and f.price
<= " + priceParsed;
            query =
query.concat(priceQuery);
        } catch
(Exception e){
            out.println("<h1>You must enter a
valid number for price<h1>");
        }
    }
}

```

```

    }

    if (date !=null && date.trim().length()> 0) {

        try {

            Date dateSql=Date.valueOf(date);

            String dateQuery = " and

f.dateOfDeparture >= '" + dateSql + "'";

            query =

query.concat(dateQuery);

        } catch

(Exception e1) {

            out.println("<h1>You must enter the date correctly into yyyy-MM-dd
format<h1>");

        }

    }

    System.out.println(query);

    List<Flight> flights = session.createQuery(query).list();

    if (flights.size() > 0) {

out.print("<a href=\"index.html\">Home</a>");

out.println("<h1>List of all Flights: </h1>");

        out.println("<style> table,th,td { border : 1px solid black ; padding :15px;}
</style>");

        out.println("<table>");
out.println("<tr>");
            out.println("<th>"); out.println("Flight ID");
out.println("</th>");
            out.println("<th>"); out.println("Airline");
out.println("</th>");
            out.println("<th>"); out.println("Number Of Seats");
out.println("</th>");
            out.println("<th>"); out.println("Source");
out.println("</th>");
            out.println("<th>"); out.println("Desintation");
out.println("</th>");
            out.println("<th>"); out.println("Departure Date");
out.println("</th>");
            out.println("<th>"); out.println("Arrival Date");
out.println("</th>");
    }

```

```

                out.println("<th>"); out.println("Price");
out.println("</th>");
                out.println("</tr>");

for(Flight i:flights) {                                if
(i.getNumberOfSeats() > 0) {

                out.println("<tr>");

                                out.println("<td>");
out.println(i.getId()); out.println("</td>");

                                out.println("<td>");
out.println(i.getAirline().getAirline().toString()); out.println("</td>");

                                out.println("<td>");
out.println(i.getNumberOfSeats()); out.println("</td>");

                                out.println("<td>");
out.println(i.getSource()); out.println("</td>");

                                out.println("<td>");
out.println(i.getDestination()); out.println("</td>");

                                out.println("<td>");
out.println(i.getDateOfDeparture()); out.println("</td>");

                                out.println("<td>");
out.println(i.getDateOfArrival()); out.println("</td>");

                                out.println("<td>");
out.println(i.getPrice()); out.println("</td>");

                out.println("</tr>");

        }

    }

    out.println("</table>");

    request.getRequestDispatcher("registration.html").include(request, response);
    } else {

        out.print("<a href=\"index.html\">Home</a>");

out.print("<h1>Sorry there are no flights currently!<h1>");

    }

    session.close();

    out.close();

```

```

        } catch (Exception e) {
            e.printStackTrace();
        }
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
     response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse
    response) throws ServletException, IOException {
    }
}

```

14. Registrarion.html:

```

<!DOCTYPE html>

<html>
<head>
<meta charset="UTF-8">
<title>Flight Registration Page</title>
</head>
<body align="center">
    <h1>Flight Registration Page</h1>
    <form name="flightRegistraton" method="POST" action="registration">
        Flight ID : <input type="number" name="flightid" placeholder="flight id"
        required> <br/>
        First Name : <input type="text" name="firstname" placeholder="First name"
        required> <br/>
        Last Name : <input type="text" name="Lastname" placeholder="Last name"
        required> <br/>
        Email : <input type="email" name="email" placeholder="enter email id"
        required> <br/>
        Birthday (yyyy-MM-dd) : <input type="date" name="birthday" placeholder="Dob"
        required> <br/>
    </form>

```

```
        <br/>
        <input type="submit" value="Submit Flight Registration">
    </form>

</body>
</html>
```

15. Registrarion.java:

```
package com.simplilearn.servlets.users;

import
java.io.IOException;
import
java.io.PrintWriter;
import java.sql.Date;
import java.util.List;
import
java.util.regex.Pattern;
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 org.hibernate.Session;
import
org.hibernate.SessionFactory;
```

```

import
com.simplilearn.tables.Flight; import
com.simplilearn.util.HibernateUtil;

/**
 * Servlet implementation class Registration
 */
@WebServlet("/registration") public class
Registration extends HttpServlet {    private
static final long serialVersionUID = 1L;

    /**
 * @see HttpServlet#HttpServlet()
 */    public
Registration() {
    }

    /**
 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
response)
 */
    protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {

    }

    /**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)
 */
    @SuppressWarnings("unchecked")
    protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {

        // print writer

```

```

        PrintWriter out = response.getWriter();
response.setContentType("text/html");

        HttpSession httpsession = request.getSession();
        String flightid = request.getParameter("flightid");
        String firstname = request.getParameter("firstname");
        String lastname = request.getParameter("lastname");
        String email = request.getParameter("email");
        String birthday = request.getParameter("birthday");

        request.setAttribute("firstname", firstname);
        Date dateSqlBirthday = null;
        try {
            dateSqlBirthday = Date.valueOf(birthday);
        } catch (Exception e1) {
            out.print("<a href = \"registration.html\"> Re-Enter Information
</a><br/>");
            out.print("Make sure you are entering your date code in
correctly (yyyy-MM-dd)");
        }

        //email
        if (!(Pattern.matches("[A-Za-z0-9]+(\\.)@(\\.)", email))) {
            out.print("<a href = \"registration.html\"> Re-enter Information
</a><br/>");
            out.print("Make sure you are entering in a valid
email address");
        } else if (dateSqlBirthday==null){
            out.print("<a href = \"registration.html\"> Re-enter Information
</a><br/>");
            out.print("Make sure you are entering in a valid date format
(yyyy-MM-dd)");
        } else {
            httpsession.setAttribute("flightid", flightid);
            httpsession.setAttribute("firstname", firstname);

```



```

httpsession.setAttribute("lastname", lastname);
httpsession.setAttribute("email", email);
httpsession.setAttribute("birthday", birthday);

//open a connection
try {
    SessionFactory sFactory =
HibernateUtil.buildSessionFactory();
    Session session =
sFactory.openSession();
    session.beginTransaction();

    String query = "select f from Flight f" +
        " inner join Airline a" +
        " on f.airline=a.id" +
        " and f.numberOfSeats > 0";
    if (flightid !=null && flightid.trim().length() > 0)
    {
        try {
            int flightIdParsed =
Integer.parseInt(flightid);
            String flightIdQuery = " and f.id
            =" + flightIdParsed;
            query =
            query.concat(flightIdQuery);
        } catch
        (Exception e){
            out.println("<h1>You must enter a
            valid flight id<h1>");
        }
    }

    List<Flight> flights = session.createQuery(query).list();

    if (flights.size() > 0) {
        out.print("<a href=\"index.html\">Home</a>");
    }
}

```

```
out.println("<h1>Confirm Flight Details: </h1>");

for(Flight i:flights) {
    if (i.getNumberOfSeats()
> 0) {
        out.println("Flight ID: " + i.getId()
+ "<br/>");

        out.println("Airline: " +
i.getAirline().getAirline().toString() + "<br/>");
        out.println("Number Of Seats: " + i.getNumberOfSeats() +
"<br/>");

        out.println("Source " + i.getSource() + "<br/>");
        out.println("Desintation:" + i.getDestination() +
"<br/>");

        out.println("Departure Date: "+i.getDateOfDeparture() +
"<br/>");

        out.println("Arrival Date: " + i.getDateOfArrival() +
"<br/>");

        out.println("<h1>Your Total is: $" + i.getPrice() +
"<h1><br/>");

        out.println("<hr>");
    }
}

request.getRequestDispatcher("payment.html").include(request,
response);

} else {
    out.print("<a href=\"index.html\">Home</a>");

    out.print("<h1>You must enter a valid flight id!<h1>");
}

session.close();

out.close();

} catch (Exception e) {
    e.printStackTrace();
}

}

}
```

16. Payment.html:

```
<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>Payment</title>

</head>

<body align="center">

    <h1>Enter Payment Details</h1>

    <form name="paymentDetails" method="POST" action="pay-online">

        First Name On Card : <input type="text" name="firstname"
placeholder="John" required> <br/>

        Last Name On Card : <input type="text" name="lastname"
placeholder="Smith" required> <br/>

        Card Number: <input type="text" name="cardnumber" placeholder="1234 1234 4321
9123" required> <br/>

        Expiration (yyyy-MM-dd) : <input type="date" name="expiration"
placeholder="2027-10-31" required> <br/>

        Security Code : <input type="number" name="securitycode"
placeholder="987" required> <br/>

        <br/>

        <input type="submit" value="Pay Ticket">

    </form>

</body>

</html>
```

17. Payment.java:

```
package com.simplilearn.servlets.users;
```

```
import
```

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

```
import
```

```
java.io.PrintWriter;
```

```
import java.sql.Date;
```

```
import
```

```
java.util.HashSet;
```

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

```
import java.util.Set;
```

```
import
```

```
java.util.regex.Pattern;
```

```
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 org.hibernate.Session;
```

```
import
```

```
org.hibernate.SessionFactory;
```

```
import
```

```
org.hibernate.query.Query;
```

```

import com.simplilearn.tables.Flight;

import
com.simplilearn.tables.Payment;

import com.simplilearn.tables.Person;

import
com.simplilearn.util.HibernateUtil;

/**
 * Servlet implementation class PayOnline
 */
@WebServlet("/pay-online") public class
PayOnline extends HttpServlet {    private
static final long serialVersionUID = 1L;

    /**
 * @see HttpServlet#HttpServlet()
 */
    public PayOnline() {
    }

    /**
 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
 */
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        response.sendRedirect("payment.html");
    }

    /**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
 */
    @SuppressWarnings({ "unchecked", "rawtypes" })

```

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

```
    PrintWriter out = response.getWriter();
```

```
    response.setContentType("text/html");
```

```
    HttpSession httpsession = request.getSession(false);
```

```
    String personflightid = (String) httpsession.getAttribute("flightid");
```

```
        out.print("<a href = \"payment.html\"> Re-enter Information </a><br/>");
```

```
    };
```

```
        } catch (Exception e1) {    out.println("<h1>You must enter the date correctly into yyyy-MM-dd
format<h1>");    out.print("<a href = \"payment.html\"> Re-enter Information </a><br/>");
```

```
    }
```

```
    String fName = request.getParameter("firstname");
```

```
    String lName = request.getParameter("lastname");
```

```
    String cardNumber = request.getParameter("cardnumber").replaceAll("\\s", "");
```

```
    System.out.println(cardNumber);
```

```
    String expiration = request.getParameter("expiration"); int securitycode =
```

```
    Integer.parseInt(request.getParameter("securitycode")); Date
```

```
    dateSqlPayment = null;
```

```
    try {
```

```
        dateSqlPayment=Date.valueOf(expiration);
```

```
    } catch (Exception e1) {
```

```
        out.println("<h1>You must enter the date correctly into yyyy-MM-dd format<h1>");
        out.print("<a href = \"payment.html\"> Re-enter Information </a><br/>");
    }
```

```
    if (!Pattern.matches("\\d{15,16}", cardNumber)) {
        out.print("<a href = \"payment.html\"> Re-enter Information </a><br/>");
        out.print("Make sure you are entering your card number in correctly");

    } else if (!Pattern.matches("\\d{3,4}", Integer.toString(securitycode))) {
        out.print("<a href = \"payment.html\"> Re-enter Information </a><br/>");
        out.print("Make sure you are entering your security code in correctly");
    } else if (dateSqlPayment.before(timeBooked)) {
        out.println("<h1>You must ensure your card is not expired<h1>");
        out.print("<a href = \"payment.html\"> Re-enter Information </a><br/>");
    }
    else {
```

```
        //step 1. Confirm Fields Match Criteria
```

```
            //Else redirect to payment
```

```
        //step 2. insert into person table
```

```
        //open a connection
```

```
        try {
```

```
            SessionFactory sFactory = HibernateUtil.buildSessionFactory();
```

```
            Session session = sFactory.openSession();
```

```
            session.beginTransaction();
```

```
            int personflightidConverted = Integer.parseInt(personflightid);
```

```
String query1 = " from Flight where id = " + personflightidConverted;
List<Flight> list = (List<Flight>) session.createQuery(query1).list();
Set<Flight> flights = new HashSet<Flight>(list);
```

```
Person person = new Person();

person.setFirstName(personfirstname);
person.setLastName(personlastname);
person.setEmail(personemail);           person.setBirthday(dateSqlPerson);
        person.setTimeBooked(timeBooked);
person.setFlights(flights);
```

```
Payment payment = new Payment();

payment.setFirstNameOnCard(fName);
payment.setLastNameOnCard(lName);
payment.setCardNumber(cardNumber);
payment.setExpiration(dateSqlPayment);
payment.setSecurityCode(securitycode);           payment.setPerson(person);
```

```
session.save(person);

session.save(payment);
```

```
String query = "select numberOfSeats from Flight f" +
                " where id = " + personflightidConverted;

int    resultFromQ1    =    (int)    session.createQuery(query).getSingleResult();           Query
q3=session.createQuery("update    Flight    set    numberOfSeats=:n    where    id=:i");
q3.setParameter("n",(resultFromQ1 - 1));
```



```

q3.setParameter("i",personflightidConverted);

int status=q3.executeUpdate();

System.out.println(status);

session.getTransaction().commit();

session.close();

response.sendRedirect("confirmation-page");

out.close();
} catch (Exception e) {

    e.printStackTrace();

}

}

//step 3. insert into payment table
//step 4. reduce person count
//step 5. Redirect to confirmation page

}

}

```

18. Conformpayment.java:

```

package com.simplilearn.servlets.users;

import
java.io.IOException; import
java.io.PrintWriter; 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 org.hibernate.Session;
import org.hibernate.SessionFactory;
import com.simplilearn.tables.Flight;
import com.simplilearn.util.HibernateUtil;

/**
 * Servlet implementation class ConfirmationPage
 */
@WebServlet("/confirmation-page") public class
ConfirmationPage extends HttpServlet {      private
static final long serialVersionUID = 1L;

    /**
 * @see HttpServlet#HttpServlet()
 */
```

```

    public ConfirmationPage() {
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {

        // print writer
        PrintWriter out = response.getWriter();
        response.setContentType("text/html");

        HttpSession httpsession = request.getSession();
        String flightid = (String) httpsession.getAttribute("flightid");
        String firstName = (String) httpsession.getAttribute("firstname");
        int flightIdConverted = Integer.parseInt(flightid);

        //open a connection
        try {
            SessionFactory sFactory = HibernateUtil.buildSessionFactory();
            Session session = sFactory.openSession();
            session.beginTransaction();

            String query= "select f from Flight f" +
                " inner join Airline a" +
                " on f.airline=a.id" +
                " and f.numberOfSeats > 0" +
                " and f.id = " + flightIdConverted;

            @SuppressWarnings("unchecked")
            List<Flight> flights = session.createQuery(query).list();

```

```

        if (flights.size() > 0) {
            out.print("<a href=\"index.html\">Home</a><br/>");
            out.println("<h1>Congratulations! You're all set, " + firstName
+ "!</h1><br/><br/>");
            out.println("<h1>List of Confirmed Flights for " + firstName +
"</h1><hr>");
            out.println("<style> table,th,td { border : 1px solid black ; padding :15px;}
</style>");
            out.println("<table>");
            out.println("<tr>");
            out.println("<th>"); out.println("Flight ID");
            out.println("</th>");
            out.println("<th>"); out.println("Airline");
            out.println("</th>");
            out.println("<th>"); out.println("Number Of Seats");
            out.println("</th>");
            out.println("<th>"); out.println("Source");
            out.println("</th>");
            out.println("<th>"); out.println("Desintation");
            out.println("</th>");
            out.println("<th>"); out.println("Departure Date");
            out.println("</th>");
            out.println("<th>"); out.println("Arrival Date");
            out.println("</th>");
            out.println("<th>"); out.println("Price");
            out.println("</th>");
            out.println("</tr>");
            for(Flight i:flights) {
                if
(i.getNumberOfSeats() > 0) {
                    out.println("<tr>");
                    out.println("<td>"); out.println(i.getId());
                    out.println("</td>");
                    out.println("<td>");
                    out.println(i.getAirline().getAirline().toString()); out.println("</td>");
                    out.println("<td>");
                    out.println(i.getNumberOfSeats()); out.println("</td>");
                    out.println("<td>");

```

```

        out.println(i.getSource()); out.println("</td>");

                                out.println("<td>");
        out.println(i.getDestination()); out.println("</td>");

                                out.println("<td>");
        out.println(i.getDateOfDeparture()); out.println("</td>");

                                out.println("<td>");
        out.println(i.getDateOfArrival()); out.println("</td>");

                                out.println("<td>");
        out.println(i.getPrice()); out.println("</td>");

                                out.println("</tr>");

        }

    }

    out.println("</table>");

    } else {

        out.print("<a href=\"index.html\">Home</a>");

        out.print("<h1>Sorry You don't have any are no flights
currently!<h1>");

    }

    session.close();

    } catch (Exception e) {

        e.printStackTrace();

    } finally {

        out.close();

    }

}

/**

 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)

 */

```

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

```
        }
```

```
    }
```