

SimpliLearn Phase 2 Project: FlyAway

Airline ticket booking portal

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GitHub Project Repository URL : [GitHub Link](#)

Sprints Planned:

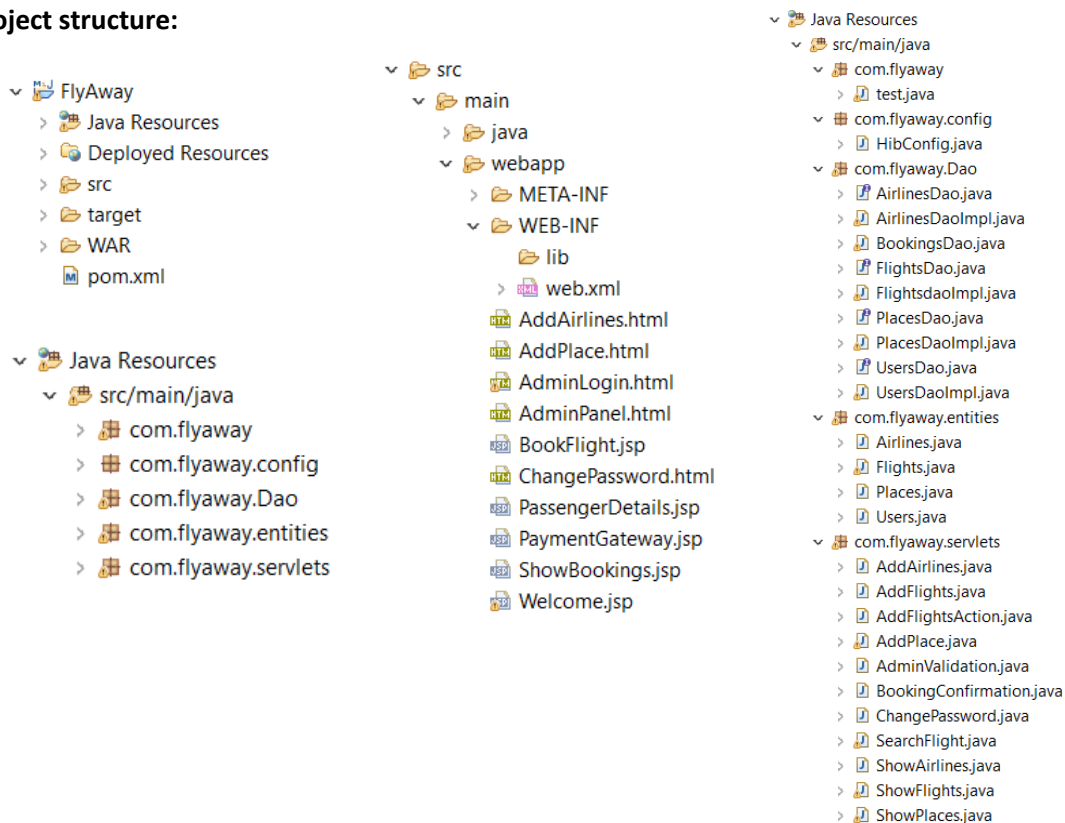
Sprint 1: Creation of hibernate entities, admin login and password changing features.
Sprint 2: Creation of full admin panel features for viewing and addition of master list of places, airlines and flights.
Sprint 3: Creation of searching for flight from home screen and adding passenger details feature.
Sprint 4: Creation of payment gateway and booking confirmation feature.
Sprint 5: Final publish with minor code tweaks.

Technologies used:

Java EE-Servlets, JSP, Hibernate, MySql.

Build tool – Maven (Maven webapp archetype is used for project creation)

Project structure:



Pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<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/xsd/maven-
4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>

    <groupId>com.simplilearn</groupId>
    <artifactId>FlyAway</artifactId>
```

```

<version>0.0.1-SNAPSHOT</version>
<packaging>war</packaging>

<name>FlyAway Maven Webapp</name>
<!-- FIXME change it to the project's website -->
<url>http://www.example.com</url>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <maven.compiler.source>1.8</maven.compiler.source>
  <maven.compiler.target>1.8</maven.compiler.target>
</properties>

<dependencies>
  <!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java -->
  <dependency>
    <groupId>mysql</groupId>
    <artifactId>mysql-connector-java</artifactId>
    <version>8.0.28</version>
  </dependency>
  <!-- https://mvnrepository.com/artifact/org.hibernate/hibernate-core -->
  <dependency>
    <groupId>org.hibernate</groupId>
    <artifactId>hibernate-core</artifactId>
    <version>5.6.10.Final</version>
  </dependency>

  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>4.11</version>
    <scope>test</scope>
  </dependency>
</dependencies>

<build>
  <finalName>FlyAway</finalName>
  <pluginManagement>
    <!-- lock down plugins versions to avoid using Maven defaults (may be
moved to parent pom) -->
    <plugins>
      <plugin>
        <artifactId>maven-clean-plugin</artifactId>
        <version>3.1.0</version>
      </plugin>
      <!-- see http://maven.apache.org/ref/current/maven-
core/default-bindings.html#Plugin_bindings_for_war_packaging -->
      <plugin>
        <artifactId>maven-resources-plugin</artifactId>
        <version>3.0.2</version>
      </plugin>
      <plugin>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>3.8.0</version>

```

```

        </plugin>
        <plugin>
            <artifactId>maven-surefire-plugin</artifactId>
            <version>2.22.1</version>
        </plugin>
        <plugin>
            <artifactId>maven-war-plugin</artifactId>
            <version>3.2.2</version>
        </plugin>
        <plugin>
            <artifactId>maven-install-plugin</artifactId>
            <version>2.5.2</version>
        </plugin>
        <plugin>
            <artifactId>maven-deploy-plugin</artifactId>
            <version>2.8.2</version>
        </plugin>
    </plugins>
</pluginManagement>
</build>
</project>

```

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" >

<web-app>
    <display-name>FlyAway</display-name>
    <welcome-file-list>
        <welcome-file>Welcome.jsp</welcome-file>
    </welcome-file-list>
</web-app>

```

Welcome.jsp:

```

<%@page import="com.flyaway.Dao.PlacesDaoImpl"%>
<%@page import="com.flyaway.entities.Places"%>
<%@page import="java.util.List"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>FlyAway</title>
</head>
<body>
    <h1>
        <center>Welcome to FlyAway ticket booking portal</center>
    </h1>
    <form action="AdminLogin.html" method="post">
        <input type="submit" value="Admin Login">
    </form>

```

```

<h2>Ticket Booking:</h2>
<b>Enter following details for booking:</b>
<form action=SearchFlight method="post">
    <label for="traveldate">Select Travel date</label><br> <input
        type="date" id="traveldate" name="traveldate" required><br>
    <label for="source">Select source place:</label><br>

    <datalist id="places">
        <%
            List<Places> places = null;
            PlacesDaoImpl placesdao = new PlacesDaoImpl();
            places = placesdao.getAll();
            for (Places p : places) {
                %>
                <option value="<%=p.getPlaceName()%>" />
                <%
            }
            %>
        </datalist>
        <input type="text" name="source" list="places" required /><br>
        <label for="destination">Select destination place:</label><br>
        <input type="text" name="destination" list="places" required /><br>
        <label for="persons">Enter number of persons</label><br>
        <input type="number" name="persons" required><br>
        <input type="submit" value="show available flights"><br>

    </form>
</body>
</html>

```

AddAirlines.html:

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action=AddAirlines method="post">
    <label for="code">Enter Airline Code:</label><br>
    <input type="text" id="code" name="code" maxlength="4"><br>
    <label for="name">Enter Airline Name:</label><br>
    <input type="text" id="name" name="name"><br>
    <input type="submit" value="Submit">
    <br>
    <a href = "Welcome.jsp">Go to home</a><br>
    <a href = "ShowAirlines">View all airlines</a><br>
</form>
</body>
</html>

```

AddPlace.html:

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>

```

```

</head>
<body>
<form action=AddPlace method="post">
  <label for="code">Enter Place Code:</label><br>
  <input type="text" id="code" name="code" maxlength="3"><br>
  <label for="name">Enter Place Name:</label><br>
  <input type="text" id="name" name="name"><br>
  <input type="submit" value="Submit">
  <br>
  <a href = "Welcome.jsp">Go to home</a><br>
  <a href = "ShowPlaces">View All places</a><br>
</form>
</body>
</html>

```

AdminLogin.html:

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Login</title>
</head>
<body>
<form action=AdminValidation method="post">
  <label for="oldpass">Enter the Username:</label><br>
  <input type="teext" id="username" name="username"><br>
  <label for="pass">Enter the Password:</label><br>
  <input type="password" id="pass" name="pass"><br>
  <input type="submit" value="Login">
</form>
</body>
</html>

```

AdminPanel.html

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<a href="ChangePassword.html">Click here to change the password</a><br><br><br>
<a href="ShowAirlines">View master list of airlines !!</a><br><br><br>
<a href="AddAirlines.html">Add airline to master list !!</a><br><br><br>
<a href="ShowPlaces">View master list of places !!</a><br><br><br>
<a href="AddPlace.html">Add a place to master list !!</a><br><br><br>
<a href="ShowFlights">View available Flight List !!</a><br><br><br>
<a href="AddFlights">Add Flight to flight list !!</a><br><br><br>
<a href="ShowBookings.jsp">Show flight bookings !!</a><br><br><br>
</body>
</html>

```

BookFlight.jsp:

```

<%@page import="com.flyaway.entities.Flights"%>
<%@page import="java.util.List"%>
<%@page import="com.flyaway.Dao.FlightsdaoImpl"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

```

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Book Flight</title>
</head>
<body>
<h1>Book Flight</h1>
<%
int persons=Integer.parseInt(request.getParameter("persons"));
String Date = request.getParameter("traveldate");
%>

<form action="PassengerDetails.jsp" method="post">
No. of Persons:<br>
<input type="text" id="numofpersons" name="numofpersons" value="<%=persons%>"/><br>
Travel Date:<br>
<input type="date" id="dateoftravel" name="dateoftravel" value="<%=Date%>"/><br>
Enter the flight Id to book:<br>
<input type="number" id="flightno" name="flightno"/>
<input type="submit" value="Book Flight"/>
</form>
</body>
</html>

```

ChangePassword.html

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h1>Change admin password:</h1>
<form action=ChangePassword method="post">
<label for="oldpass">Enter Old Password:</label><br>
<input type="password" id="oldpass" name="oldpass"><br>
<label for="newpass">Enter New Password</label><br>
<input type="password" id="newpass" name="newpass"><br>
<label for="newpass1">Re-Enter New Password</label><br>
<input type="password" id="newpass1" name="newpass1">
<input type="submit" value="Submit">
</form>
</body>
</html>

```

PassengerDetails.jsp

```

<%@page import="com.flyaway.entities.Flights"%>
<%@page import="com.flyaway.Dao.FlightsdaoImpl"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Passenger Details</title>
</head>

```

```

<body>
<h1>Passenger Details:</h1>
<b>You are about to book following flight on the following date, Kindly enter passenger
details:</b><hr>
<%
int flightId=Integer.parseInt(request.getParameter("flightno"));
int persons = Integer.parseInt(request.getParameter("numofpersons"));
String date = request.getParameter("dateoftravel");

FlightsdaoImpl FlightsDao=new FlightsdaoImpl();
Flights flight = FlightsDao.getByld(flightId);
%>
<form action="PaymentGateway.jsp" method="post">
<input type="hidden" id="flightId" name="flightId" value="<%=flight.getFlightId()%>"/>
No. of Persons:<br>
<input type="number" id="numofpersons" name="numofpersons" value="<%=persons%>"/><br>
Travel Date:<br>
<input type="date" id="dateoftravel" name="dateoftravel" value="<%=date%>"/><br><br>
<table border="1">
<tr>
<th>Flight ID</th>
<th>Airline</th>
<th>Route</th>
<th>Price</th>
<th>Source</th>
<th>Destination</th>
</tr>
<tr>
<td><%=flight.getFlightId() %></td>
<td><%=flight.getAirline() %></td>
<td><%=flight.getRoute() %></td>
<td><%=flight.getPrice() %></td>
<td><%=flight.getSource() %></td>
<td><%=flight.getDestination() %></td>
</tr>
</table><br><br>

<% int i=1;
while(i<=persons) {
%>

    <br>Enter passenger <%=i %> name: <input type="text" name="passenger<%=i %>name"
id="passenger<%=i %>>name"/><br>

    <%
    i++;
    } %>

<br>Total amount for <%=persons %> persons is <b>INR <%=persons*flight.getPrice() %>/-</b>
<br><input type="submit" value="Pay Now"/>
</form>
<form action="Welcome.jsp"><br>
<input type="submit" value="Go Home"/>
</form>
</body>
</html>

```

PaymentGateway.jsp

```
<%@page import="com.flyaway.entities.Flights"%>
<%@page import="com.flyaway.Dao.FlightsdaoImpl"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Payment Gateway</title>
</head>
<body>
<h1>Payment Gateway</h1>
<%
    int num=Integer.parseInt(request.getParameter("numofpersons"));
    String dtoftravel=request.getParameter("dateoftravel");
    int id=Integer.parseInt(request.getParameter("flightId"));
    String passengers =null;
    FlightsdaoImpl flightsdao = new FlightsdaoImpl();
    Flights flight = flightsdao.getById(id);
    int paymentAmount = flight.getPrice()*num;
%>
<%
    int i=1;
    while(i<=num){
        if(passengers==null){
            passengers = request.getParameter("passenger"+i+"name");
        }else{
            passengers = passengers + "," + request.getParameter("passenger"+i+"name");
        }
        i++;
    }
%>
<form action="BookingConfirmation" method="post">
Payment Amount = <b><%=paymentAmount%> INR</b><br>
<input type="hidden" name="paymentAmount" id="paymentAmount"
value="<%=paymentAmount%>"/>
<input type="hidden" name="persons" id="persons" value="<%=num%>"/>
<input type="hidden" name="dtoftravel" id="dtoftravel" value="<%=dtoftravel%>"/>
<input type="hidden" name="flid" id="flid" value="<%=id%>"/>
<input type="hidden" name="passdetails" id="passdetails" value="<%=passengers%>"/>

<br>Enter Card Number: <input type="text" id="cardnumber" name="cardnumber"/>
<br>Enter expiry date: <input type="date" id="expiry" name="expiry"/>
<br>Enter CVV number: <input type="number" id="cvv" name="cvv" maxlength="3"/>
<br><input type="submit" value="Pay"/>
</form>
</body>
</html>
```

ShowBookings.jsp

```
<%@page import="java.sql.ResultSet"%>
<%@page import="com.flyaway.Dao.BookingsDao"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
```



```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Flight Bookings</title>
</head>
<body>
<a href="Welcome.jsp">Go Home</a>
    <%
        BookingsDao bookingdao = new BookingsDao();
        ResultSet rs = bookingdao.getAll();
    %>
    <h1>Flight Booking History:</h1><hr>
    <table border="1">
        <tr>
            <th>BookingId</th>
            <th>Card Number</th>
            <th>Expiry Date</th>
            <th>CVV Number</th>
            <th>Passenger Details</th>
            <th>Payment Amount</th>
            <th>No. of persons</th>
            <th>Travel Date</th>
            <th>Booking Time</th>
            <th>Airline</th>
            <th>Route</th>
            <th>Source</th>
            <th>Destination</th>
        </tr>

        <%
            while (rs.next()) {
        %>
        <tr>
            <td><%=rs.getInt(1)%></td>
            <td><%=rs.getInt(3)%></td>
            <td><%=rs.getString(4)%></td>
            <td><%=rs.getInt(5)%></td>
            <td><%=rs.getString(6)%></td>
            <td><%=rs.getInt(7)%></td>
            <td><%=rs.getInt(8)%></td>
            <td><%=rs.getString(9)%></td>
            <td><%=rs.getString(10)%></td>
            <td><%=rs.getString(12)%></td>
            <td><%=rs.getString(15)%></td>
            <td><%=rs.getString(16)%></td>
            <td><%=rs.getString(13)%></td>
        </tr>
        <%}%>
    </table>
</body>
</html>

```

Package: com.flyaway
test.java

```

package com.flyaway;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;

import com.flyaway.Dao.UsersDaoImpl;
import com.flyaway.entities.Users;

public class test {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Connection con=null;
        PreparedStatement pst=null;
        ResultSet rs=null;
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");

            con=DriverManager.getConnection("jdbc:mysql://localhost:3306/testdb1","root","kavin1
23");

            if(con!=null)
                System.out.println("success");
        }catch(Exception e) {
            e.printStackTrace();
        }

    }

}

```

Package : com.flyaway.config

HibConfig.java

```

package com.flyaway.config;

import java.util.Properties;

import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
import org.hibernate.cfg.Environment;

import com.flyaway.entities.Airlines;
import com.flyaway.entities.Flights;
import com.flyaway.entities.Places;
import com.flyaway.entities.Users;

public class HibConfig {

    public static SessionFactory getFactory() {

        Configuration configuration = new Configuration();
        Properties properties = new Properties();

        properties.put(Environment.DRIVER, "com.mysql.cj.jdbc.Driver");
    }

}

```

```

        properties.put(Environment.URL, "jdbc:mysql://localhost:3306/testdb1");
        properties.put(Environment.USER, "root");
        properties.put(Environment.PASS, "kavin123");
        properties.put(Environment.SHOW_SQL, true);
        properties.put(Environment.FORMAT_SQL, true);
        properties.put(Environment.HBM2DDL_AUTO, "update");
        configuration.setProperties(properties);
        configuration.addAnnotatedClass(Places.class);
        configuration.addAnnotatedClass(Airlines.class);
        configuration.addAnnotatedClass(Flights.class);
        configuration.addAnnotatedClass(Users.class);
        return configuration.buildSessionFactory();
    }
}

```

Package: com.flyaway.dao

AirlinesDao.java

```

package com.flyaway.Dao;

import java.util.List;

import com.flyaway.entities.Airlines;

public interface AirlinesDao {
    void insert(Airlines airline);
    void update(int ano,Airlines airline);
    List<Airlines> getAll();
    void delete(int ano);
}

```

Package: com.flyaway.dao

AirlinesDaoImpl.java

```

package com.flyaway.Dao;

import java.util.List;

import org.hibernate.query.Query;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.Transaction;
import com.flyaway.config.HibConfig;
import com.flyaway.entities.Airlines;

public class AirlinesDaoImpl implements AirlinesDao{

    @Override
    public void insert(Airlines airline) {
        // TODO Auto-generated method stub
        SessionFactory factory=null;
        Session session=null;
        Transaction tx=null;
        try {
            factory = HibConfig.getFactory();
            session=factory.openSession();
            tx=session.beginTransaction();

```

```

        session.save(airline);
        tx.commit();
    } catch (Exception e) {
        // TODO: handle exception
        e.printStackTrace();
        tx.rollback();
    }
}

@Override
public void update(int ano, Airlines airline) {
    // TODO Auto-generated method stub
    SessionFactory factory=null;
    Session session=null;
    Transaction tx=null;
    try {
        factory = HibConfig.getFactory();
        session=factory.openSession();
        tx=session.beginTransaction();
        Query<Airlines> query=session.createQuery("update
com.flyaway.entities.Airlines a set a.airLineCode=?1,a.airLineName=?2 where a.airLineId=?3");

        query.setParameter(1, airline.getAirLineCode());
        query.setParameter(2, airline.getAirLineName());
        query.setParameter(3, ano);
        query.executeUpdate();
        tx.commit();
    } catch (Exception e) {
        // TODO: handle exception
        e.printStackTrace();
        tx.rollback();
    }
}

@Override
public List<Airlines> getAll() {
    // TODO Auto-generated method stub
    SessionFactory factory=null;
    Session session=null;
    Transaction tx=null;
    List<Airlines> airlines=null;
    try {
        factory = HibConfig.getFactory();
        session=factory.openSession();
        tx=session.beginTransaction();
        Query<Airlines> query=session.createQuery("select a from
com.flyaway.entities.Airlines a");
        airlines = query.list();
        tx.commit();
    } catch (Exception e) {
        // TODO: handle exception
        e.printStackTrace();
        tx.rollback();
    }
}

```

```

    }
    return airlines;
}

@Override
public void delete(int ano) {
    // TODO Auto-generated method stub
    SessionFactory factory=null;
    Session session=null;
    Transaction tx=null;
    try {
        factory = HibConfig.getFactory();
        session=factory.openSession();
        tx=session.beginTransaction();
        Airlines airline=session.get(Airlines.class, ano);
        session.delete(airline);
        tx.commit();
    } catch (Exception e) {
        // TODO: handle exception
        e.printStackTrace();
        tx.rollback();
    }
}
}
}

```

Package: com.flyaway.dao

BookingsDao.java

```
package com.flyaway.Dao;
```

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
```

```
public class BookingsDao {
```

```
    public void insert(int fid, int cno, String expdate, int cvv, String pass, int pay, int persons,
String tdate, String bookingtime) {
```

```
        Connection con=null;
        PreparedStatement pst=null;
        ResultSet rs=null;
        try {
```

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

```
        con=DriverManager.getConnection("jdbc:mysql://localhost:3306/testdb1","root","kavin1
23");
```

```
            if(con!=null) {
                pst =con.prepareStatement("insert into
bookings(flightId,cardNo,expiryDate,cvvNumber,PassDetails,paymentAmount,persons,traveldate,
bookingTime) values(?,?,?,?,?,?,?,?)");
                pst.setInt(1, fid);
                pst.setInt(2, cno);
                pst.setString(3, expdate);
```

```

        pst.setInt(4, cvv);
        pst.setString(5, pass);
        pst.setInt(6, pay);
        pst.setInt(7, persons);
        pst.setString(8, tdate);
        pst.setString(9, bookingtime);
        int i = pst.executeUpdate();
        if (i > 0) {
            System.out.println("Inserted Successfully");
        }
        else
        {
            System.out.println("Not inserted");
        }
    }
} catch (Exception e) {
    // TODO: handle exception
    e.printStackTrace();
}
}

public ResultSet getAll() {
    Connection con = null;
    PreparedStatement pst = null;
    ResultSet rs = null;
    try {
        Class.forName("com.mysql.cj.jdbc.Driver");

        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/testdb1", "root", "kavin123");

        if (con != null) {
            pst = con.prepareStatement("select * from bookings b, flights f where b.flightId=f.flightId;");
            rs = pst.executeQuery();
        }
    } catch (Exception e) {
        // TODO: handle exception
        e.printStackTrace();
    }
    return rs;
}
}

```

Package: com.flyaway.dao

FlightsDao.java

```
package com.flyaway.Dao;
```

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

```
import com.flyaway.entities.Flights;
```

```
public interface FlightsDao {
    void insert(Flights flight);
    void update(int id, Flights flight);
    void delete (int id);
    List<Flights> getAll();
}
```

```
List<Flights> getFlight(String source, String Destination);  
Flights getByld(int id);
```

```
}
```

Package: com.flyaway.dao

FlightsdaoImpl.java

```
package com.flyaway.Dao;
```

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

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

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

```
import org.hibernate.Transaction;
```

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

```
import com.flyaway.config.HibConfig;
```

```
import com.flyaway.entities.Flights;
```

```
public class FlightsdaoImpl implements FlightsDao {
```

```
    @Override
```

```
    public void insert(Flights flight) {
```

```
        // TODO Auto-generated method stub
```

```
        SessionFactory factory = null;
```

```
        Session session = null;
```

```
        Transaction tx = null;
```

```
        try {
```

```
            factory=HibConfig.getFactory();
```

```
            session=factory.openSession();
```

```
            tx=session.beginTransaction();
```

```
            session.save(flight);
```

```
            tx.commit();
```

```
        } catch (Exception e) {
```

```
            // TODO: handle exception
```

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

```
            tx.rollback();
```

```
        }
```

```
    }
```

```
    @Override
```

```
    public void update(int id, Flights flight) {
```

```
        // TODO Auto-generated method stub
```

```
        SessionFactory factory = null;
```

```
        Session session = null;
```

```
        Transaction tx = null;
```

```
        try {
```

```
            factory=HibConfig.getFactory();
```

```
            session=factory.openSession();
```

```
            tx=session.beginTransaction();
```

```
            Query<Flights> query=session.createQuery("update  
com.flyaway.entities.Flights f set f.airline=?1, f.route=?2, f.price=?3, f.source=?4, f.destination=?5  
where f.flightId=?6");
```

```
            query.setParameter(1, flight.getAirline());
```

```
            query.setParameter(2, flight.getRoute());
```

```

        query.setParameter(3, flight.getPrice());
        query.setParameter(4, flight.getSource());
        query.setParameter(5, flight.getDestination());
        query.setParameter(6, id);
        query.executeUpdate();
        tx.commit();
    } catch (Exception e) {
        // TODO: handle exception
        e.printStackTrace();
        tx.rollback();
    }
}

@Override
public void delete(int id) {
    // TODO Auto-generated method stub
    SessionFactory factory = null;
    Session session = null;
    Transaction tx = null;
    try {
        factory=HibConfig.getFactory();
        session=factory.openSession();
        tx=session.beginTransaction();
        Flights fl=session.get(Flights.class, id);
        session.delete(fl);
        tx.commit();
    } catch (Exception e) {
        // TODO: handle exception
        e.printStackTrace();
        tx.rollback();
    }
}

@Override
public List<Flights> getAll() {
    // TODO Auto-generated method stub
    SessionFactory factory = null;
    Session session = null;
    Transaction tx = null;
    List<Flights> flights=null;
    try {
        factory=HibConfig.getFactory();
        session=factory.openSession();
        tx=session.beginTransaction();
        Query<Flights> query=session.createQuery("select f from
com.flyaway.entities.Flights f");
        flights = query.list();
        tx.commit();
    } catch (Exception e) {
        // TODO: handle exception
        e.printStackTrace();
        tx.rollback();
    }
    return flights;
}

```



```

@Override
public List<Flights> getFlight(String source, String Destination) {
    // TODO Auto-generated method stub
    SessionFactory factory = null;
    Session session = null;
    Transaction tx = null;
    List<Flights> flights=null;
    try {
        factory=HibConfig.getFactory();
        session=factory.openSession();
        tx=session.beginTransaction();
        Query<Flights> query=session.createQuery("select f from
com.flyaway.entities.Flights f where f.source=?1 and f.destination=?2");
        query.setParameter(1, source);
        query.setParameter(2, Destination);
        flights = query.list();
        tx.commit();
    } catch (Exception e) {
        // TODO: handle exception
        e.printStackTrace();
        tx.rollback();
    }
    return flights;
}

@Override
public Flights getById(int id) {
    // TODO Auto-generated method stub
    SessionFactory factory = null;
    Session session = null;
    Transaction tx = null;
    Flights flight=null;
    try {
        factory=HibConfig.getFactory();
        session=factory.openSession();
        tx=session.beginTransaction();
        Query<Flights> query=session.createQuery("select f from
com.flyaway.entities.Flights f where f.flightId=?1");
        query.setParameter(1, id);
        flight = query.uniqueResult();
        tx.commit();
    } catch (Exception e) {
        // TODO: handle exception
        e.printStackTrace();
        tx.rollback();
    }
    return flight;
}
}

```

Package: com.flyaway.dao

PlacesDao.java

package com.flyaway.Dao;

```
import java.util.List;

import com.flyaway.entities.Places;

public interface PlacesDao {
    void insert(Places place);
    List<Places> getAll();
    void update (Places place, int id);
    void delete (int id);
    Places get(String placename);
}
```

Package: com.flyaway.dao

PlacesDaoImpl.java

```
package com.flyaway.Dao;

import java.util.List;

import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.Transaction;
import org.hibernate.query.Query;

import com.flyaway.config.HibConfig;
import com.flyaway.entities.Places;

public class PlacesDaoImpl implements PlacesDao{

    @Override
    public void insert(Places place) {
        // TODO Auto-generated method stub
        SessionFactory factory=null;
        Session session=null;
        Transaction tx=null;
        try {
            factory = HibConfig.getFactory();
            session=factory.openSession();
            tx=session.beginTransaction();
            session.save(place);
            tx.commit();
        } catch (Exception e) {
            // TODO: handle exception
            e.printStackTrace();
            tx.rollback();
        }
    }

    @Override
    public List<Places> getAll() {
        // TODO Auto-generated method stub
        SessionFactory factory=null;
        Session session=null;
        Transaction tx=null;
        List<Places> places=null;
        try {
```

```

        factory = HibConfig.getFactory();
        session=factory.openSession();
        tx=session.beginTransaction();
        Query<Places> query = session.createQuery("select p from
com.flyaway.entities.Places p");
        places = query.list();
        tx.commit();
    } catch (Exception e) {
        // TODO: handle exception
        e.printStackTrace();
        tx.rollback();
    }

    return places;
}

@Override
public void update(Places place, int id) {
    // TODO Auto-generated method stub
    SessionFactory factory=null;
    Session session=null;
    Transaction tx=null;
    List<Places> places=null;
    try {
        factory = HibConfig.getFactory();
        session=factory.openSession();
        tx=session.beginTransaction();
        Query<Places> query = session.createQuery("update
com.flyaway.entities.Places p set p.placeCode=?1, p.placename=?2 where p.placeId=?3");
        query.setParameter(1, place.getPlaceCode());
        query.setParameter(2,place.getPlaceName());
        query.setParameter(3, id);
        query.executeUpdate();
        tx.commit();
    } catch (Exception e) {
        // TODO: handle exception
        e.printStackTrace();
        tx.rollback();
    }
}

@Override
public void delete(int id) {
    // TODO Auto-generated method stub
    SessionFactory factory=null;
    Session session=null;
    Transaction tx=null;
    try {
        factory = HibConfig.getFactory();
        session=factory.openSession();
        tx=session.beginTransaction();
        Places place = session.get(Places.class,id);
        session.delete(place);
        tx.commit();
    }

```

```

        } catch (Exception e) {
            // TODO: handle exception
            e.printStackTrace();
            tx.rollback();
        }
    }

    @Override
    public Places get(String placename) {
        // TODO Auto-generated method stub
        SessionFactory factory=null;
        Session session=null;
        Transaction tx=null;
        Places places=null;
        try {
            factory = HibConfig.getFactory();
            session=factory.openSession();
            tx=session.beginTransaction();
            Query<Places> query = session.createQuery("select p from
com.flyaway.entities.Places p where p.placeName=?1");
            query.setParameter(1, placename);
            places = query.uniqueResult();
            tx.commit();
        } catch (Exception e) {
            // TODO: handle exception
            e.printStackTrace();
            tx.rollback();
        }
        return places;
    }
}

```

Package: com.flyaway.dao

UsersDao.java

```

package com.flyaway.Dao;

import java.util.List;

import com.flyaway.entities.Users;

public interface UsersDao {

    void addUser(Users user);
    void changePassword(String username,String password);
    void deleteUser(int uno);
    List<Users> getUser(String Username);

}

```

Package: com.flyaway.dao

UsersDaoImpl.java

```

package com.flyaway.Dao;

import java.util.List;

import org.hibernate.query.Query;

```

```

import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.Transaction;

import com.flyaway.config.HibConfig;
import com.flyaway.entities.Users;

public class UsersDaoImpl implements UsersDao{

    @Override
    public void addUser(Users user) {
        // TODO Auto-generated method stub
        SessionFactory factory=null;
        Session session=null;
        Transaction tx=null;
        try {
            factory=HibConfig.getFactory();
            session=factory.openSession();
            tx=session.beginTransaction();
            session.save(user);
            tx.commit();
        } catch (Exception e) {
            // TODO: handle exception
            e.printStackTrace();
            tx.rollback();
        }
    }

    @Override
    public void changePassword(String username, String password) {
        // TODO Auto-generated method stub
        SessionFactory factory=null;
        Session session=null;
        Transaction tx=null;
        try {
            factory=HibConfig.getFactory();
            session=factory.openSession();
            tx=session.beginTransaction();
            Query<Users> query =session.createQuery("update
com.flyaway.entities.Users u set u.password=?1 where u.userName=?2");
            query.setParameter(1, password);
            query.setParameter(2, username);
            query.executeUpdate();
            tx.commit();
        } catch (Exception e) {
            // TODO: handle exception
            e.printStackTrace();
            tx.rollback();
        }
    }

    @Override
    public void deleteUser(int uno) {
        // TODO Auto-generated method stub
        SessionFactory factory=null;

```

```

        Session session=null;
        Transaction tx=null;
        try {
            factory=HibConfig.getFactory();
            session=factory.openSession();
            tx=session.beginTransaction();
            Users usr= session.get(Users.class,uno);
            session.delete(usr);
            tx.commit();
        } catch (Exception e) {
            // TODO: handle exception
            tx.rollback();
        }
    }

    @Override
    public List<Users> getUser(String Username) {
        // TODO Auto-generated method stub
        SessionFactory factory=null;
        Session session=null;
        Transaction tx=null;
        List<Users> user=null;
        try {
            factory=HibConfig.getFactory();
            session=factory.openSession();
            tx=session.beginTransaction();
            Query<Users> query = session.createQuery("Select u from
com.flyaway.entities.Users u where u.userName=?1");
            query.setParameter(1, Username);
            user = query.list();
            tx.commit();
        } catch (Exception e) {
            // TODO: handle exception
            e.printStackTrace();
            tx.rollback();
        }
        return user;
    }
}

```

Package: com.flyaway.entities

Airlines.java

```
package com.flyaway.entities;
```

```
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
```

@Entity

```
public class Airlines {
```

```
    @Id
```

```
    @GeneratedValue(strategy=GenerationType.IDENTITY)
```

```
    private int airlineId;
```

```

private String airLineCode;
private String airLineName;

public Airlines() {
    // TODO Auto-generated constructor stub
}

public int getAirlineId() {
    return airlineId;
}

public void setAirlineId(int airlineId) {
    this.airlineId = airlineId;
}

public String getAirLineCode() {
    return airLineCode;
}

public void setAirLineCode(String airLineCode) {
    this.airLineCode = airLineCode;
}

public String getAirLineName() {
    return airLineName;
}

public void setAirLineName(String airLineName) {
    this.airLineName = airLineName;
}
}

```

Package: com.flyaway.entities

Flights.java

```
package com.flyaway.entities;
```

```

import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.JoinColumn;
import javax.persistence.OneToOne;

```

```
@Entity
```

```
public class Flights {
```

```
    @Id
```

```
    @GeneratedValue(strategy=GenerationType.IDENTITY)
```

```
    private int flightId;
```

```
    private String airline;
```

```
    private String route;
```

```
    private int price;
```

```
private String source;
private String destination;

public Flights() {
    // TODO Auto-generated constructor stub
}

public int getFlightId() {
    return flightId;
}

public void setFlightId(int flightId) {
    this.flightId = flightId;
}


public String getAirline() {
    return airline;
}

public void setAirline(String airline) {
    this.airline = airline;
}

public String getRoute() {
    return route;
}

public void setRoute(String route) {
    this.route = route;
}

public String getSource() {
    return source;
}

public void setSource(String source) {
    this.source = source;
}

public String getDestination() {
    return destination;
}

public void setDestination(String destination) {
    this.destination = destination;
}

public int getPrice() {
    return price;
}

public void setPrice(int price) {
```



```
        this.price = price;
    }
}
```

Package: com.flyaway.entities

Places.java

```
package com.flyaway.entities;
```

```
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
```

```
@Entity
```

```
public class Places {
```

```
    @Id
```

```
    @GeneratedValue(strategy=GenerationType.IDENTITY)
```

```
    private int placeId;
```

```
    private String placeCode;
```

```
    private String placeName;
```

```
    public Places() {
```

```
        // TODO Auto-generated constructor stub
```

```
    }
```

```
    public int getPlaceId() {
```

```
        return placeId;
```

```
    }
```

```
    public void setPlaceId(int placeId) {
```

```
        this.placeId = placeId;
```

```
    }
```

```
    public String getPlaceCode() {
```

```
        return placeCode;
```

```
    }
```

```
    public void setPlaceCode(String placeCode) {
```

```
        this.placeCode = placeCode;
```

```
    }
```

```
    public String getPlaceName() {
```

```
        return placeName;
```

```
    }
```

```
    public void setPlaceName(String placeName) {
```

```
        this.placeName = placeName;
```

```
    }
```

```
}
```

Package: com.flyaway.entities

Users.java

```
package com.flyaway.entities;

import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;

@Entity
public class Users {

    @Id
    @GeneratedValue(strategy=GenerationType.IDENTITY)
    private int userId;
    private String userName;
    private String password;

    public Users() {
        // TODO Auto-generated constructor stub
    }

    public int getUserId() {
        return userId;
    }

    public void setUserId(int userId) {
        this.userId = userId;
    }

    public String getUserName() {
        return userName;
    }

    public void setUserName(String userName) {
        this.userName = userName;
    }

    public String getPassword() {
        return password;
    }

    public void setPassword(String password) {
        this.password = password;
    }

}
```

Package: com.flyaway.servlets

AddAirlines.java

```
package com.flyaway.servlets;

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

import javax.servlet.RequestDispatcher;
```

```

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 com.flyaway.Dao.AirlinesDaoImpl;
import com.flyaway.entities.Airlines;

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

    /**
     * @see HttpServlet#HttpServlet()
     */
    public AddAirlines() {
        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 request, HttpServletResponse response)
throws ServletException, IOException {
        // TODO Auto-generated method stub
        String airlineCode=request.getParameter("code");
        String airlineName=request.getParameter("name");
        AirlinesDaoImpl AirlinesDao = new AirlinesDaoImpl();
        Airlines airlines = new Airlines();
        airlines.setAirLineCode(airlineCode);
        airlines.setAirLineName(airlineName);

        AirlinesDao.insert(airlines);
        RequestDispatcher rd = request.getRequestDispatcher("AddAirlines.html");
        PrintWriter pw = response.getWriter();
        pw.println("<h1>Airline added successfully!!</h1>");

        rd.include(request, response);
    }
}

```

Package: com.flyaway.servlets

AddFlights.java

```
package com.flyaway.servlets;
```

```
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 com.flyaway.Dao.AirlinesDaoImpl;
```

```
import com.flyaway.Dao.PlacesDaoImpl;
```

```
import com.flyaway.entities.Airlines;
```

```
import com.flyaway.entities.Places;
```

```
/**
```

```
 * Servlet implementation class AddFlights
```

```
 */
```

```
@WebServlet("/AddFlights")
```

```
public class AddFlights extends HttpServlet {
```

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

```
    /**
```

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

```
     */
```

```
    public AddFlights() {
```

```
        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
```

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

```
        List<Airlines> airlines = null;
```

```
        AirlinesDaoImpl airlineDao = new AirlinesDaoImpl();
```

```
        airlines = airlineDao.getAll();
```

```
        List<Places> places = null;
```

```
        PlacesDaoImpl placesDao = new PlacesDaoImpl();
```

```
        places = placesDao.getAll();
```

```
        pw.println("<html>\r\n" + "<head>\r\n" + "<meta charset=\"ISO-8859-1\">\r\n" +
```

```
"<title>Add Flights</title>\r\n"
```

```
        + "</head>\r\n" + "<body>\r\n" + "<form
```

```
action=\"AddFlightsAction\" method=\"post\">\r\n"
```

```
        + " <label for=\"airline\">Select Airline</label><br>\r\n");
```

```

        pw.println("<select id=\"airline\" name=\"airline\" ><br>\r\n" + "<option
value=\"\">Select</option>");
        for (Airlines a : airlines) {

            pw.println("<option value=\"\" + a.getAirLineName() + \"\">" +
a.getAirLineName() + "</option>");

        }
        pw.println(" </select><br>"
            + "      <label for=\"price\">Enter Price:</label><br>\r\n"
            + "    <input type=\"text\" id=\"price\" name=\"price\"><br>\r\n"
            + "    <label for=\"source\">Select Source</label><br>\r\n");
        pw.println("<select id=\"source\" name=\"source\" ><br>\r\n"
            + "<option value=\"\">Select</option>");
        for (Places p : places) {

            pw.println("<option value=\"\" + p.getPlaceName() + \"\">" +
p.getPlaceName() + "</option>");

        }
        pw.println(" </select><br>"
            + "<label for=\"destination\">Select
Destination</label><br>\r\n");
        pw.println("<select id=\"destination\" name=\"destination\"
><br>\r\n"
            + "<option value=\"\">Select</option>");
        for (Places p : places) {

            pw.println("<option value=\"\" + p.getPlaceName() + \"\">"
+ p.getPlaceName() + "</option>");

        }
        pw.println(" </select><br>"
            + "    <input type=\"submit\" value=\"Add Flight\">\r\n"
            + "<br><a href=\"ShowFlights\">Show Flights</a>"
            + "<br><a href=\"Welcome.jsp\">Go Home</a>"
            + "</body>\r\n" + "</html>");

    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
     *      response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        // TODO Auto-generated method stub
        doGet(request, response);
    }
}

```

Package: com.flyaway.servlets

AddFlightsAction.java

package com.flyaway.servlets;

```

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

import javax.servlet.RequestDispatcher;
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 com.flyaway.Dao.FlightsdaoImpl;
import com.flyaway.Dao.PlacesDaoImpl;
import com.flyaway.entities.Flights;
import com.flyaway.entities.Places;

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

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

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
        // TODO Auto-generated method stub
        String airline=request.getParameter("airline");
        String route=null;
        String source = request.getParameter("source");
        String destination = request.getParameter("destination");
        int price=Integer.parseInt(request.getParameter("price"));

        System.out.println(airline+route+source+destination+price);

        PlacesDaoImpl placesdao=new PlacesDaoImpl();
        Places sourceObj = placesdao.get(source);
        Places destObj = placesdao.get(destination);

```

```

        route = sourceObj.getPlaceCode()+"-"+destObj.getPlaceCode();

        Flights flight = new Flights();
        flight.setAirline(airline);
        flight.setRoute(route);
        flight.setPrice(price);
        flight.setSource(source);
        flight.setDestination(destination);
        FlightsdaoImpl flightsDao = new FlightsdaoImpl();
        flightsDao.insert(flight);

        RequestDispatcher rd = request.getRequestDispatcher("AddFlights");
        PrintWriter pw = response.getWriter();
        pw.println("<h1>Flight inserted successfully</h1>");
        rd.include(request, response);

    }
}

```

Package: com.flyaway.servlets

AddPlace.java

```

package com.flyaway.servlets;

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

import javax.servlet.RequestDispatcher;
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 com.flyaway.Dao.AirlinesDaoImpl;
import com.flyaway.Dao.PlacesDaoImpl;
import com.flyaway.entities.Airlines;
import com.flyaway.entities.Places;

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

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

        /**
         * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
         */
        protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
            // TODO Auto-generated method stub
            String placeCode=request.getParameter("code");
            String placeName=request.getParameter("name");
            PlacesDaoImpl PlacesDao = new PlacesDaoImpl();
            Places place = new Places();
            place.setPlaceCode(placeCode);
            place.setPlaceName(placeName);

            PlacesDao.insert(place);
            RequestDispatcher rd = request.getRequestDispatcher("AddPlace.html");
            PrintWriter pw = response.getWriter();
            pw.println("<h1>Place added successfully!!</h1>");

            rd.include(request, response);
        }
    }
}

```

Package: com.flyaway.servlets

AdminValidation.java

```

package com.flyaway.servlets;

import java.io.IOException;
import java.io.PrintWriter;
import java.util.List;

import javax.servlet.RequestDispatcher;
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 com.flyaway.Dao.UsersDaoImpl;
import com.flyaway.entities.Users;

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

    /**
     * @see HttpServlet#HttpServlet()

```



```

*/
public AdminValidation() {
    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.sendRedirect("AdminLogin.html");
}

/**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    // TODO Auto-generated method stub
    String username = request.getParameter("username");
    String password = request.getParameter("pass");
    String msg="";
    UsersDaoImpl user = new UsersDaoImpl();
    PrintWriter pw = response.getWriter();
    List<Users> usr = user.getUser(username);
    for(Users u:usr) {
        if(username.equals(u.getUserName())){
            if(password.equals(u.getPassword())) {
                RequestDispatcher rd =
request.getRequestDispatcher("AdminPanel.html");
                msg = "Login successfull!!";
                pw.println(msg);
                rd.forward(request, response);
                break;
            }else {
                msg = msg + "\nIncorrect password!!";
            }
        }else {
            msg = msg+ "\n Username not valid!";
        }
    }
    pw.println(msg);
}
}

```

Package: com.flyaway.servlets

BookingConfirmation.java

package com.flyaway.servlets;

import java.io.IOException;

import java.io.PrintWriter;

```

import java.text.SimpleDateFormat;
import java.util.Date;

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 com.flyaway.Dao.BookingsDao;
import com.flyaway.Dao.FlightsdaoImpl;
import com.flyaway.entities.Flights;

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

    /**
     * @see HttpServlet#HttpServlet()
     */
    public BookingConfirmation() {
        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 request, HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        String passDetails = request.getParameter("passdetails");
        int payAmt = Integer.parseInt(request.getParameter("paymentAmount"));
        int noofpersons = Integer.parseInt(request.getParameter("persons"));
        String dateoftravel = request.getParameter("dtoftravel");
        int fid = Integer.parseInt(request.getParameter("flid"));
        int crdnum = Integer.parseInt(request.getParameter("cardnumber"));
        int cvv= Integer.parseInt(request.getParameter("cvv"));
        String expdate = request.getParameter("expiry");
        Date date = new Date();
        SimpleDateFormat format = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
        String currentDateTime = format.format(date);
        String[] passengers=passDetails.split(",");

```

```

        FlightsdaoImpl flightdao = new FlightsdaoImpl();
        Flights flight = flightdao.getByld(fid);
        BookingsDao bookingDao=new BookingsDao();

        try {
            bookingDao.insert(fid, crdnum, expdate, cvv, passDetails, payAmt, noofpersons,
dateoftravel, currentDateTime);
        }catch(Exception e) {
            e.printStackTrace();
        }
        PrintWriter pw = response.getWriter();
        pw.println("<html><body>");
        pw.println("<h1>Flight Booking Confirmed!!!</h1>");
        pw.println("-----");
        pw.println("<b><br>BOOKING DETAILS:</b>");
        pw.println("<br>Travel Date :"+ dateoftravel);
        pw.println("<br>No. of persons :"+ noofpersons);
        pw.println("<br><br><b>Flight details:</b>");
        pw.println("<br>Airline :"+flight.getAirline());
        pw.println("<br>Route :"+flight.getRoute());
        pw.println("<br>Boarding at :"+flight.getSource());
        pw.println("<br>Destination :"+flight.getDestination());
        pw.println("<br><br><b>Passenger details:</b>");
        int i=1;
        for(String s:passengers) {
            pw.println("<br>Passenger "+i+": "+s);
        }
        pw.println("<br><br><b>Payment details:</b>");
        pw.println("<br>Amount paid : <b>"+ payAmt+" INR</b>");
        pw.println("<br>Card Number :"+ crdnum);

        pw.println("<br><br><center>Thank you for choosing FlyAway as your trusted
travel partner. Excited to serve u again!!</center>");
        pw.println("<html><body>");

    }
}

```

Package: com.flyaway.servlets

ChangePassword.java

```
package com.flyaway.servlets;
```

```
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 com.flyaway.Dao.UsersDaoImpl;
```

```
import com.flyaway.entities.Users;
```

```

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

    /**
     * @see HttpServlet#HttpServlet()
     */
    public ChangePassword() {
        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

    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
     * response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        // TODO Auto-generated method stub
        String username = "admin";
        String oldpassword = request.getParameter("oldpass");
        String newPassword = request.getParameter("newpass");
        String newPassword1 = request.getParameter("newpass1");

        PrintWriter pw = response.getWriter();

        UserDaoImpl userDao = new UserDaoImpl();
        List<Users> usrs = userDao.getUser(username);
        if (usrs != null) {
            for (Users u : usrs) {
                String pass = u.getPassword();
                if (pass.equals(oldpassword)) {
                    if (newPassword.equals(newPassword1)) {
                        userDao.changePassword(username,
newPassword1);

                        pw.println("<html><body>");
                        pw.println("Password successfully changed!!");
                        pw.println("<br>");
                        pw.println("<a href=\"Welcome.jsp\">Go to
home</a>");

                        pw.println("</html></body>");
                        break;

```



```

*/
public SearchFlight() {
    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 request, HttpServletResponse response)
throws ServletException, IOException {

    String traveldate = request.getParameter("traveldate");
    String source = request.getParameter("source");
    String destination = request.getParameter("destination");
    String persons = request.getParameter("persons");

    List<Flights> flights=null;
    FlightsdaoImpl flightsDao=new FlightsdaoImpl();
    flights = flightsDao.getFlight(source, destination);

    PrintWriter pw =response.getWriter();
    RequestDispatcher rd = request.getRequestDispatcher("BookFlight.jsp");

    pw.println("<html><body>");
    pw.println("<br><table border='1'><tr><th>FLIGHT
ID</th><th>AIRLINE</th><th>ROUTE</th><th>PRICE</th><th>SOURCE</th><th>DESTINATION</t
h></tr>");

    for(Flights f:flights) {
        pw.println("<tr>");
        pw.println("<td>"+f.getFlightId()+"</td>");
        pw.println("<td>"+f.getAirline()+"</td>");
        pw.println("<td>"+f.getRoute()+"</td>");
        pw.println("<td>"+f.getPrice()+"</td>");
        pw.println("<td>"+f.getSource()+"</td>");
        pw.println("<td>"+f.getDestination()+"</td>");
        pw.println("</tr>");

    }

    pw.println("</body></html>");
    rd.include(request, response);
}

```

```
}
```

Package: com.flyaway.servlets

ShowAirlines.java

```
package com.flyaway.servlets;
```

```
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 com.flyaway.Dao.AirlinesDaoImpl;
```

```
import com.flyaway.entities.Airlines;
```

```
/**
```

```
 * Servlet implementation class ShowAirlines
```

```
 */
```

```
@WebServlet("/ShowAirlines")
```

```
public class ShowAirlines extends HttpServlet {
```

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

```
    /**
```

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

```
     */
```

```
    public ShowAirlines() {
```

```
        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
```

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

```
        List<Airlines> airlines=null;
```

```
        AirlinesDaoImpl airlineDao=new AirlinesDaoImpl();
```

```
        airlines=airlineDao.getAll();
```

```
        pw.println("<html><body>");
```

```
        pw.println("<table border='1'><tr><th>Airline ID</th><th>Airline  
Code</th><th>Airline Name</th></tr>");
```

```
        for(Airlines a:airlines) {
```

```
            pw.println("<tr>");
```

```
            pw.println("<td>" +a.getAirlineId()+"</td>");
```

```
            pw.println("<td>" +a.getAirLineCode()+"</td>");
```

```
            pw.println("<td>" +a.getAirLineName()+"</td>");
```

```
            pw.println("</tr>");
```

```

        }
        pw.println("<br><a href=\"AddAirlines.html\"> Click here to add airlines</a>");

        pw.println("</body></html>");
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
        // TODO Auto-generated method stub
        doGet(request, response);
    }
}

```

Package: com.flyaway.servlets

ShowFlights.java

```
package com.flyaway.servlets;
```

```
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 com.flyaway.Dao.AirlinesDaoImpl;
```

```
import com.flyaway.Dao.FlightsdaoImpl;
```

```
import com.flyaway.entities.Airlines;
```

```
import com.flyaway.entities.Flights;
```

```
/**
```

```
 * Servlet implementation class ShowFlights
```

```
 */
```

```
@WebServlet("/ShowFlights")
```

```
public class ShowFlights extends HttpServlet {
```

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

```
    /**
```

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

```
     */
```

```
    public ShowFlights() {
```

```
        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
            PrintWriter pw =response.getWriter();
            List<Flights> flights=null;
            FlightsdaoImpl flightDao=new FlightsdaoImpl();
            flights=flightDao.getAll();

            pw.println("<html><body>");
            pw.println("<table border='1'><tr><th>FLIGHT
ID</th><th>AIRLINE</th><th>ROUTE</th><th>PRICE</th><th>SOURCE</th><th>DESTINATION</t
h></tr>");

            for(Flights f:flights) {
                pw.println("<tr>");
                pw.println("<td>" +f.getFlightId()+"</td>");
                pw.println("<td>" +f.getAirline()+"</td>");
                pw.println("<td>" +f.getRoute()+"</td>");
                pw.println("<td>" +f.getPrice()+"</td>");
                pw.println("<td>" +f.getSource()+"</td>");
                pw.println("<td>" +f.getDestination()+"</td>");
                pw.println("</tr>");

            }
            pw.println("<br><a href='\"AddFlights\"'> Click here to add Flights</a>");

            pw.println("</body></html>");
        }

        /**
         * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
         */
        protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
            // TODO Auto-generated method stub
            doGet(request, response);
        }
    }
}

```

Package: com.flyaway.servlets

ShowPlaces.java

```

package com.flyaway.servlets;

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 com.flyaway.Dao.AirlinesDaoImpl;
import com.flyaway.Dao.PlacesDaoImpl;
import com.flyaway.entities.Airlines;

```

```

import com.flyaway.entities.Places;

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

    /**
     * @see HttpServlet#HttpServlet()
     */
    public ShowPlaces() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        PrintWriter pw =response.getWriter();
        List<Places> places=null;
        PlacesDaoImpl placeDao=new PlacesDaoImpl();
        places=placeDao.getAll();

        pw.println("<html><body>");
        pw.println("<table border='1'><tr><th>Place ID</th><th>Place
Code</th><th>Place Name</th></tr>");

        for(Places a:places) {
            pw.println("<tr>");
            pw.println("<td>" +a.getPlaceId()+"</td>");
            pw.println("<td>" +a.getPlaceCode()+"</td>");
            pw.println("<td>" +a.getPlaceName()+"</td>");
            pw.println("</tr>");

        }
        pw.println("<br><a href='\"AddPlace.html\"'> Click here to add places</a>");

        pw.println("</body></html>");
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
        // TODO Auto-generated method stub
        doGet(request, response);
    }
}

```