

Project: FlyAway (An Airline Booking Portal)

Git URL:

<https://github.com/moulaalihujare/Simplilearn.git>

Problem Statement:

FlyAway is a ticket-booking portal that lets people book flights on their website.

Program Features:

- A search form in the homepage to allow entry of travel details, like the date of travel, source, destination, and the number of persons.
- Based on the travel details entered, it will show the available flights with their ticket prices.
- Once a person selects a flight to book, they will be taken to a register page where they must fill in their personal details. In the next page, they are shown the flight details of the flight that they are booking, and the payment is done via a dummy payment gateway. On completion of the payment, they are shown a confirmation page with the details of the booking.

For the above features to work, there will be an admin backend with the following features:

- An admin login page where the admin can change the password after login, if he wishes
- A master list of places for source and destination
- A master list of airlines
- A list of flights where each flight has a source, destination, airline, and ticket price

Tools used for development:

1. Eclipse IDE
2. MySQL Relation Database Management System
3. Apache Tom-Cat 10 server
4. Java Servlets
5. Java Server Pages (JSP)
6. HTML
7. Apache Maven
8. JDBC Java Database Connectivity

Step 1.1.1: Creating a dynamic web project

- Open Eclipse
- **Go the File menu. Choose New->Dynamic Web Project**
- Enter the project name as FlyAway. Click on **Next**

- Enter nothing in the next screen and click on **Next**
- Check the checkbox **Generate web.xml deployment descriptor** and click on **Finish**
- This will create the project files in the Project Explorer

Step 1.1.2: Creating class

- In the Project Explorer, expand the project **FlyAway**
- Enter the ClassName as ConnectionUtil and click on **Finish**
- Enter the following code:

```
package com.flightbooking.database;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import com.simplelearn.util.*;

public class ConnectionUtil {
    public Connection con=null;
    public Statement st=null;

    public ConnectionUtil() throws ClassNotFoundException, SQLException{
        Class.forName("com.mysql.cj.jdbc.Driver");con=DriverManager.getConnection("jdbc:mysql://localhost:3306/moulaali_db","root","Aashiyana@11");
        System.out.println("connection established with database");
        st=con.createStatement();
    }

    public List<String[]> getAvailableFlights(String f, String t, String d) {
        List<String[]> flights=new ArrayList<>();

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

        try {
            ResultSet rs=st.executeQuery(query);
            if(rs.next()) {
                String[] flight=new String[3];
                flight[0]=rs.getString("name");
                flight[1]=rs.getString("timef");
```

```

flight[2]=rs.getString("price");
flights.add(flight);
return flights;
}
} catch (SQLException e) {
e.printStackTrace();
}
return null;
}

public HashMap<String, String> checkUser(String email, String password) {
HashMap<String,String> user=null;
String query="select * from user where email='"+email+"' and password='"+password+"'";
try {
ResultSet rs=st.executeQuery(query);
if(rs.next()) {
user=new HashMap<>();
user.put("name", rs.getString("name"));
user.put("email",rs.getString("email"));
user.put("phno",rs.getString("phno"));
user.put("adno",rs.getString("adno"));
}
return user;
} catch (SQLException e) {
e.printStackTrace();
}
return user;
}

public boolean insertUser(HashMap<String, String> user) {
String query="INSERT INTO user (email, password, name, phno, adno)
values('"+user.get("email")+"','"+user.get("password")+"','"+user.get("name")+"','"+user.get(
("phno")+"','"+user.get("adno")+"')";
try {
st.execute(query);
return true;
} catch (SQLException e) {
e.printStackTrace();
}
}

```

```

return false;
}

public boolean checkAdmin(String email, String password) {
try {
ResultSet rs=st.executeQuery("select * from admin where email='"+email+"' and
    password='"+password+"'");
if(rs.next())
return true;
} catch (SQLException e) {
e.printStackTrace();
}
return false;
}

public boolean changeAdminPassword(String email, String password) {
try {
ResultSet rs=st.executeQuery("select * from admin where email='"+email+"'");
if(!rs.next()) {
return false;
}
st.execute("update admin set password='"+password+"' where email='"+email+"'");
return true;
} catch (SQLException e) {
e.printStackTrace();
}
return false;
}

public boolean insertFlight(HashMap<String, String> flight) throws SQLException {
    String query1 = "INSERT INTO flights (name, fromf, tof, datef, timef, price) VALUES " + "
    (" +StringUtil.fixSqlFieldValue(flight.get("name")) + "," + " "+
    StringUtil.fixSqlFieldValue(flight.get("from")) + "," + " "+
    StringUtil.fixSqlFieldValue(flight.get("to")) + "," + " "+
    StringUtil.fixSqlFieldValue(flight.get("date")) + "," + " "+
    StringUtil.fixSqlFieldValue(flight.get("time")) + "," + " "+
    StringUtil.fixSqlFieldValue(flight.get("price")) + ")";

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

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

try {
//stm.execute();
st.execute(query1);

```

```

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

```

Step 1.1.3: Creating Servlet

- In the Project Explorer, expand the project **FlyAway**
- Right click on the project and select Servlet
- Enter the servlet name as **FlightInsert**. Click on **Next**
- Enter the following code:

```

package com.flightbooking.servlets;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import java.io.IOException;
import java.sql.SQLException;
import java.util.HashMap;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
import com.flightbooking.database.ConnectionUtil;
@WebServlet("/InsertFlight")
public class FlightInsert extends HttpServlet {
private static final long serialVersionUID = 1L;
protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
String name=request.getParameter("name");
String from=request.getParameter("from");
String to=request.getParameter("to");
String departure=request.getParameter("departure");
String time=request.getParameter("time");
String price=request.getParameter("price");

```

```

HashMap<String,String> flight=new HashMap<>();
flight.put("name", name);
flight.put("from", from);
flight.put("to", to);
flight.put("date", departure);
flight.put("time", time);
flight.put("price", price);
try {
    ConnectionUtil dao=new ConnectionUtil();
    HttpSession session=request.getSession();
    if(dao.insertFlight(flight)) {
        session.setAttribute("message", "Flight Added Successfully");
    }
    else {
        session.setAttribute("message", "Invalid Details");
    }
} catch (ClassNotFoundException | SQLException e) {
    // TODO Auto-generated catch block
    System.out.print("error");
    e.printStackTrace();
}
response.sendRedirect("AdminHome.jsp");
}
}

```

- **Step 1.1.4: Creating Servlet**
- In the Project Explorer, expand the project **FlyAway**
- Right click on the project and select Servlet
- Enter the servlet name as **ForgotPassword**. Click on **Next**
- Enter the following code:

```

package com.flightbooking.servlets;
import javax.servlet.annotation.WebServlet;
import java.io.IOException;
import java.sql.SQLException;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;

```

```

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
import com.flightbooking.database.ConnectionUtil;
@WebServlet("/ForgotPassword")
public class ForgotPassword extends HttpServlet {
    private static final long serialVersionUID = 1L;
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException
    {
        String email=request.getParameter("email");
        String password=request.getParameter("password");
        try {
            ConnectionUtil dao=new ConnectionUtil();
            HttpSession session=request.getSession();
            if(dao.changeAdminPassword(email,password)) {
                session.setAttribute("message", "Password Changed Successfully");
            }
            else {
                session.setAttribute("message", "Invalid Details");
            }
        } catch (ClassNotFoundException | SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
        response.sendRedirect("AdminPage.jsp");
    }
}

```

- **Step 1.1.5: Creating Servlet**
- In the Project Explorer, expand the project **FlyAway**
- Right click on the project and select Servlet
- Enter the servlet name as **ListOfFlights**. Click on **Next**
- Enter the following code:

```

package com.flightbooking.servlets;
import java.io.IOException;

```

```

import java.sql.SQLException;
import java.util.List;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
import com.flightbooking.database.ConnectionUtil;
@WebServlet("/FlightList")
public class ListOfFlights extends HttpServlet {
    private static final long serialVersionUID = 1L;

    protected void doPost(HttpServletRequest request, HttpServletResponse
    response) throws ServletException, IOException {
        String from=request.getParameter("from");
        String to=request.getParameter("to");
        String departure=request.getParameter("departure");
        try {
            ConnectionUtil dao = new ConnectionUtil();
            List<String[]> flights=dao.getAvailableFlights(from, to,
            departure);
            HttpSession session=request.getSession();
            session.setAttribute("flights", flights);
        } catch (ClassNotFoundException | SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
        response.sendRedirect("FlightList.jsp");
    }
}

```

- **Step 1.1.6: Creating Servlet**
- In the Project Explorer, expand the project **FlyAway**
- Right click on the project and select Servlet
- Enter the servlet name as **LoginOfAdmin**. Click on **Next**

- Enter the following code:

```
package com.flightbooking.servlets;
import java.io.IOException;
import java.sql.SQLException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
import com.flightbooking.database.ConnectionUtil;
@WebServlet("/AdminLogin")
public class LoginOfAdmin extends HttpServlet {
    private static final long serialVersionUID = 1L;

    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        String email=request.getParameter("email");
        String password=request.getParameter("password");
        try {
            ConnectionUtil dao=new ConnectionUtil();
            if(dao.checkAdmin(email,password)) {
                response.sendRedirect("AdminHome.jsp");
            }
            else {
                HttpSession session=request.getSession();
                session.setAttribute("message", "Invalid Details");
                response.sendRedirect("AdminPage.jsp");
            }
        } catch (ClassNotFoundException | SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
    }
}
```

- **Step 1.1.7: Creating Servlet**
- In the Project Explorer, expand the project **FlyAway**
- Right click on the project and select Servlet
- Enter the servlet name as **LoginOfUser**. Click on **Next**
- Enter the following code:

```
package com.flightbooking.servlets;
import javax.servlet.annotation.WebServlet;
import java.io.IOException;
import java.sql.SQLException;
import java.util.HashMap;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
import com.flightbooking.database.ConnectionUtil;
@WebServlet("/UserLogin")
public class LoginOfUser extends HttpServlet {
    private static final long serialVersionUID = 1L;
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
        String email=request.getParameter("email");
        String password=request.getParameter("password");
        try {
            ConnectionUtil dao=new ConnectionUtil();
            HashMap<String,String> user=dao.checkUser(email,password);
            HttpSession session=request.getSession();
            if(user!=null) {
                session.setAttribute("user", user);
                response.sendRedirect("HomePage.jsp");
            }
            else {
                session.setAttribute("message", "Invalid Details");
                response.sendRedirect("UserPage.jsp");
            }
        }
    }
}
```

```

}
} catch (ClassNotFoundException | SQLException e) {
// TODO Auto-generated catch block
e.printStackTrace();
}
}
}
}

```

- **Step 1.1.8: Creating Servlet**
- In the Project Explorer, expand the project **FlyAway**
- Right click on the project and select Servlet
- Enter the servlet name as **Logout**. Click on **Next**
- Enter the following code:

```

package com.flightbooking.servlets;
import javax.servlet.annotation.WebServlet;
import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
@WebServlet("/Logout")
public class Logout extends HttpServlet {
private static final long serialVersionUID = 1L;
protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
HttpSession session=request.getSession();
session.setAttribute("user", null);
response.sendRedirect("HomePage.jsp");
}
}

```

- **Step 1.1.9: Creating Servlet**
- In the Project Explorer, expand the project **FlyAway**
- Right click on the project and select Servlet

- Enter the servlet name as **RegistrationOfUser**. Click on **Next**
- Enter the following code:

```
package com.flightbooking.servlets;
import javax.servlet.annotation.WebServlet;
import java.io.IOException;
import java.sql.SQLException;
import java.util.HashMap;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
import com.flightbooking.database.ConnectionUtil;
@WebServlet("/UserRegistration")
public class RegistrationOfUser extends HttpServlet {
    private static final long serialVersionUID = 1L;
    protected void doPost(HttpServletRequest request, HttpServletResponse
    response) throws ServletException, IOException {
        String email=request.getParameter("email");
        String password=request.getParameter("password");
        String name=request.getParameter("name");
        String phno=request.getParameter("phno");
        String adno=request.getParameter("adno");
        HashMap<String,String> user=new HashMap<>();
        user.put("email", email);
        user.put("password", password);
        user.put("name", name);
        user.put("phno", phno);
        user.put("adno", adno);
        try {
            ConnectionUtil dao=new ConnectionUtil();
            boolean result=dao.insertUser(user);
            HttpSession session=request.getSession();
            if(result) {
                session.setAttribute("message", "User Added Successfully");
```

```

    }
    else {
        session.setAttribute("message","Invalid Details");
    }
} catch (ClassNotFoundException | SQLException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
}
response.sendRedirect("UserPage.jsp");
}
}

```

- **Step 1.1.10: Creating JSP Page**
- In the Project Explorer, expand the project **FlyAway**
- Right click on the project and select JSP
- Enter the servlet name as **AdminHome**. Click on **Next**
- Enter the following code:

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Admin Home</title>
</head>
<body >
<br>
<a href=HomePage.jsp style="color:black;text-decoration:none ;font-size:35px;fontweight:bold;">Flight
Booking</a>
<br><br>
<h1>Insert New Flight Details</h1>
<div style="border:3px solid black;width:25%;border-radius:20px;padding:20px"
align="center">
<form action=InsertFlight method=post>
<label for=name>Name :-</label> <input type="text" name=name id=name
/><br><br>
<label for=from>From :-</label> <input type="text" name=from id=from
/><br><br>
<label for=to>To :-</label> <input type="text" name=to id=to /><br><br>
<label for=departure>Departure :-</label> <input type="date" name=departure
id=departure /><br><br>
<label for=time>Time :-</label> <input type="time" name=time id=time
/><br><br>
<label for=price>Price :-</label> <input type="text" name=price id=price
/><br><br>
<input type=submit value=submit /> <input type=reset />
</form>
</div>
<%
String message=(String)session.getAttribute("message");

```

```

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

```

- **Step 1.1.11: Creating JSP Page**

- In the Project Explorer, expand the project **FlyAway**
- Right click on the project and select JSP
- Enter the servlet name as **AdminPage**. Click on **Next**
- Enter the following code:

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Admin Page</title>
</head>
<body >
<br>
<a href=HomePage.jsp style="color:black;text-decoration:none ;font-size:35px;fontweight:bold;">Flight
Booking</a>
<br><br>
<h2>Admin Login</h2>
<div style="border:3px solid black;width:25%;border-radius:20px;padding:20px"
align="center">
<form action=AdminLogin method=post>
<label for=email>Email :-</label> <input type="email" name=email id=email
/><br><br>
<label for=pass>Password :-</label> <input type="password" name=password
id=pass /><br><br>
<input type=submit value=submit /> <input type=reset />
</form>
</div>
<a href=ForgotPassword.jsp style="font-size:25;color:red;">Forgot Password</a>
<%
String message=(String)session.getAttribute("message");
if(message!=null){
%>
<p style="color:silver;"><%=message %></p>
<%
session.setAttribute("message", null);
}
%>
</body>
</html>

```

- **Step 1.1.12: Creating JSP Page**
- In the Project Explorer, expand the project **FlyAway**
- Right click on the project and select JSP
- Enter the servlet name as **BookFlight**. Click on **Next**
- Enter the following code:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@ page import="java.util.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>FlyAway</title>
</head>
<body >
<br>
<a href=HomePage.jsp style="color:black;text-decoration:none ;font-size:35px;fontweight:bold;">Flight
Booking</a>
<br><br>
<%
@SuppressWarnings("unchecked")
HashMap<String,String>
user=(HashMap<String,String>)session.getAttribute("user");
if(user==null){
response.sendRedirect("UserPage.jsp");
}
%>
<p align="center" style="color:green;font-size:40px;font-weight:bold">Flight
Booked Successfully</p>
</body>
</html>
```

- **Step 1.1.13: Creating JSP Page**
- In the Project Explorer, expand the project **FlyAway**
- Right click on the project and select JSP
- Enter the servlet name as **FlightList**. Click on **Next**
- Enter the following code:

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

```

<a href=HomePage.jsp style="color:black;text-decoration:none;font-size:35px;fontweight:bold;">Flight
Booking</a>
<br><br>
<%
@SuppressWarnings("unchecked")
List<String[]> flights=(List<String[]>)session.getAttribute("flights");
if(flights!=null){
%>
<h1>Available Flights</h1>
<table border="1">
<tr>
<th>Name</th>
<th>Time</th>
<th>Price</th>
</tr>
<%
for(String[] flight:flights){
%>
<tr>
<td><%=flight[0]%></td>
<td><%=flight[1]%></td>
<td><%=flight[2]%></td>
</tr>
</table>
<a href=BookFlight.jsp>Book Now</a>
<%
}
%>
<%
}
else{
%>
<h1>There are no available flights</h1>
<%
}
%>
</body>
</html>

```

- **Step 1.1.14: Creating JSP Page**
- In the Project Explorer, expand the project **FlyAway**
- Right click on the project and select JSP
- Enter the servlet name as **ForgotPassword**. Click on **Next**
- Enter the following code:

```

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

```



```

</head>
<body >
<br>
<a href=HomePage.jsp style="color:black;text-decoration:none ;font-size:35px;fontweight:bold;">Flight
Booking</a>
<br><br>
<div style="border:3px solid black;width:25%;border-radius:20px;padding:20px"
align="center">
<form action=ForgotPassword method=post>
<label for=email>Email :-</label> <input type="email" name=email id=email
/><br><br>
<label for=password>New Password :-</label> <input type="password"
name=password id=pass /><br><br>
<input type=submit value=submit /> <input type=reset />
</form>
</div>
</body>

```

- **Step 1.1.15: Creating JSP Page**
- In the Project Explorer, expand the project **FlyAway**
- Right click on the project and select JSP
- Enter the servlet name as **HomePage**. Click on **Next**
- Enter the following code:

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<%@ page import="java.util.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Flight Booking</title>
</head>
<body >
<h1>FlyAway</h1>
<div align="right">
<a href="AdminPage.jsp">Admin Login</a>
</div>
<%
@SuppressWarnings("unchecked")
HashMap<String,String>
user=(HashMap<String,String>)session.getAttribute("user");
if(user!=null){
%>
<p>Welcome <%=user.get("name") %></p>
<a href="Logout">Logout</a>
<%
}else{
%>
<a href=UserPage.jsp>User Login</a>
<%
}
%>
<br><br>
<div style="border:5px solid black;width:25%;border-radius:20px;padding:20px"
align="center">
<form action=FlightList method=post>

```

```

<label for=from>From :-</label> <input type=text name=from
id=from/><br><br>
<label for=to>To :-</label> <input type=text name=to id=to/><br><br>
<label for=departure>Departure :-</label> <input type=date name=departure
id=departure/><br><br>
<label for=travellers>Travellers :-</label> <input type=number
name=travellers id=travellers/><br><br>
<input type=submit value=Search /> <input type=reset />
</form>
</div>
</body>
</html>

```

- **Step 1.1.16: Creating JSP Page**
- In the Project Explorer, expand the project **FlyAway**
- Right click on the project and select JSP
- Enter the servlet name as **UserPage**. Click on **Next**
- Enter the following code:

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body >
<br>
<a href=HomePage.jsp style="color:black;text-decoration:none ;font-size:35px;fontweight:bold;">Flight
Booking</a>
<br><br>
<h2>User Login</h2>
<div style="border:2px solid black;width:25%;border-radius:20px;padding:20px"
align="center">
<form action=UserLogin method=post >
<table >
<tr>
<td><label for=email>Email</label><br></td>
<td><input type="email" name=email id=email /></td>
</tr>
<tr>
<td><label for=pass>Password</label><br></td>
<td><input type="password" name=password id=pass /></td>
</tr>
<tr>
<td><input type=submit value=submit /></td>
<td><input type=reset /></td>
</tr>
</table>
</form>
</div>
<br><br>
<i>New User-Create account</i>
<h4><a href=UserRegistration.jsp style="font-size:25;color:red;">Create

```

```

Account</a></h4>
<%
String message=(String)session.getAttribute("message");
if(message!=null){
%>
<p style="color:silver;"><%=message %></p>
<%
session.setAttribute("message", null);
}
%>
</body>
</html>

```

- **Step 1.1.17: Creating JSP Page**
- In the Project Explorer, expand the project **FlyAway**
- Right click on the project and select JSP
- Enter the servlet name as **UserRegistration**. Click on **Next**
- Enter the following code:

```

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

```

- **Step 1.1.18: Config POM file**

- In the Project Explorer, expand the project **FlyAway**
- Then open **web content** folder
- Then Open **Lib** Folder→ Open POM file
- Enter the following code:

```
<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
https://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>org.simplilearn.workshop</groupId>
  <artifactId>FlyAway</artifactId>
  <version>1.0-SNAPSHOT</version>
  <packaging>war</packaging>
  <name>FlyAway</name>
  <description>FlyAway is a ticket-booking portal that lets people book flights on
their website.</description>
  <properties>
    <maven.compiler.source>1.8</maven.compiler.source>
    <maven.compiler.target>1.8</maven.compiler.target>
  </properties>
  <build>
    <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-war-plugin</artifactId>
        <version>2.6</version>
        <configuration>
          <failOnMissingWebXml>>false</failOnMissingWebXml>
        </configuration>
      </plugin>
    </plugins>
  </build>
  <dependencies>
    <dependency>
      <groupId>javax.servlet.jsp</groupId>
      <artifactId>javax.servlet.jsp-api</artifactId>
      <version>2.3.3</version>
      <scope>provided</scope>
    </dependency>
    <dependency>
      <groupId>javax.servlet</groupId>
      <artifactId>javax.servlet-api</artifactId>
      <version>4.0.1</version>
      <scope>provided</scope>
    </dependency>
    <dependency>
      <groupId>mysql</groupId>
      <artifactId>mysql-connector-java</artifactId>
      <version>8.0.23</version>
    </dependency>
  </dependencies>
</project>
```

- **Step 1.1.19: Config Web.xml file**
- In the Project Explorer, expand the project **FlyAway**
- Then open **web content** folder

- Then Open Lib Folder--> Open **Web.xml** file
- Enter the following code:

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

<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd" version="4.0">
  <display-name>Flight Booking</display-name>
  <welcome-file-list>
    <welcome-file>UserRegistration.jsp</welcome-file>
    <welcome-file>AdminHome.jsp</welcome-file>
    <welcome-file>AdminPage.jsp</welcome-file>
    <welcome-file>FlightList.jsp</welcome-file>
    <welcome-file>BookFlight.jsp</welcome-file>
    <welcome-file>ForgotPassword.jsp</welcome-file>
    <welcome-file>HomePage.jsp</welcome-file>
    <welcome-file>UserPage.jsp</welcome-file>
  </welcome-file-list></web-app>
```

OutPut:

The below output shows User's Home Page. Users can login with user credentials

The screenshot shows a web browser window with the address bar displaying 'localhost:8080/Phase_2_-_FlyAway_(An_Airline_Booking_Portal)/'. The page content includes a heading 'Flight Booking' and a sub-heading 'User Login'. Below this is a login form with two input fields labeled 'Email' and 'Password', and two buttons labeled 'submit' and 'Reset'. At the bottom of the form area, there is a link that says 'New User-Create account' and a red text link 'Create Account'.

Flight Booking

User Login

Email

moulaalihujare@gmail.com

Password

submit

Reset

New User-Create account

[Create Account](#)

The below output shows User Registration. Here New User can create their account and login with the credentials.

FlyAway

Email :-

Password :-

Name :-

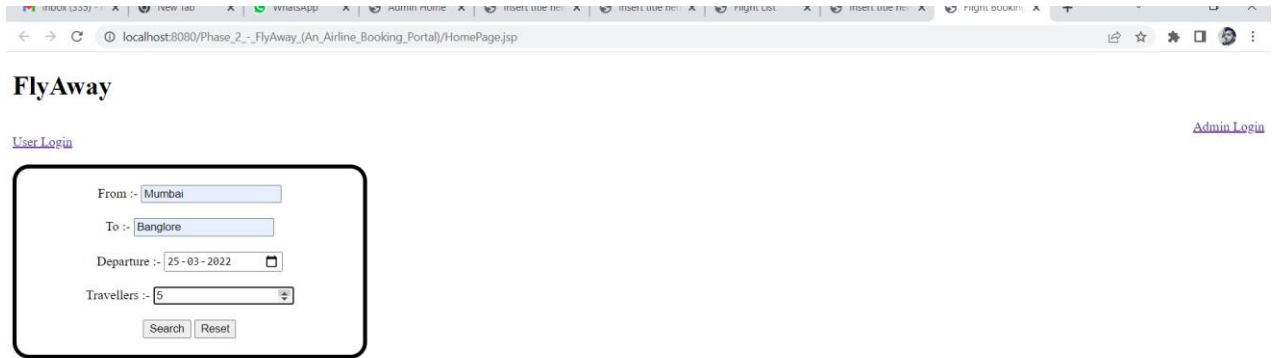
Phone No. :-

Aadhaar No. :-

submit

Reset

The below output shows the Home Page of Fly Away. Here users can searchFlights.



The screenshot shows a web browser window with the URL `localhost:8080/Phase_2_-_FlyAway_(An_Airline_Booking_Portal)/HomePage.jsp`. The page title is "FlyAway". There are two links: "User Login" and "Admin Login". A search form is highlighted with a black border. The form contains the following fields:

- From :-
- To :-
- Departure :-
- Travellers :-
-

The below output shows Flight List. If user wants to flight, he can Book theflight.

FlyAway

Available Flights

Name	Time	Price
deccan	9:00	2200

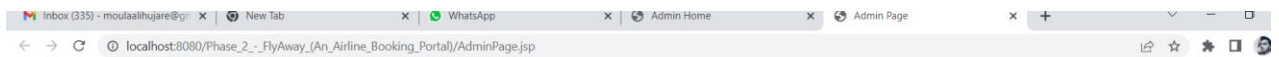
[Book Now](#)

The below output shows Flight Booked Successfully.

FlyAway

Flight Booked Successfully

The below output shows Admin Login page.



Flight Booking

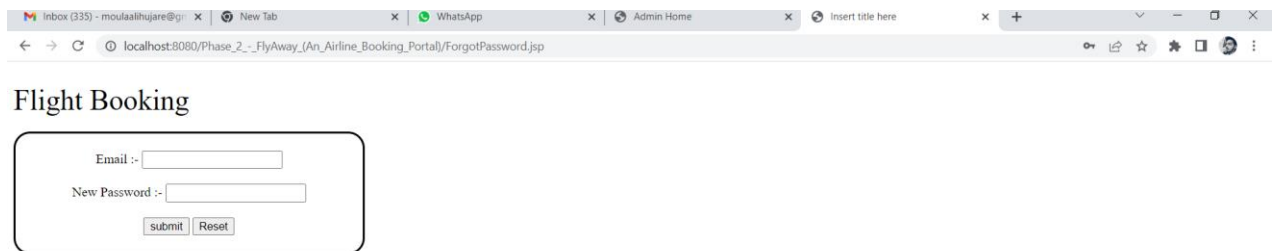
Admin Login

Email :-

Password :-

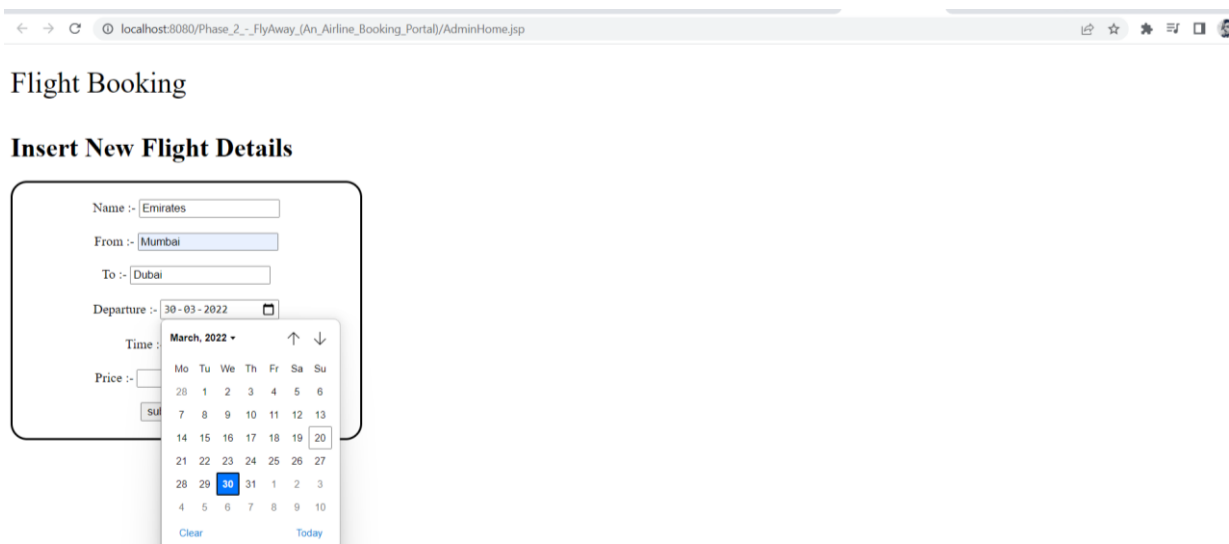
[Forget Password](#)

The below output shows if the, Admin forgot his password, he can use forgotPassword and he can create new password.



The screenshot shows a web browser window with the address bar displaying 'localhost:8080/Phase_2_-_FlyAway_(An_Airline_Booking_Portal)/ForgotPassword.jsp'. The page title is 'Flight Booking'. Below the title, there is a form with two input fields: 'Email :-' and 'New Password :-'. Below these fields are two buttons: 'submit' and 'Reset'.

The below output shows Insert New Flight Details.



The screenshot shows a web browser window with the address bar displaying 'localhost:8080/Phase_2_-_FlyAway_(An_Airline_Booking_Portal)/AdminHome.jsp'. The page title is 'Flight Booking'. Below the title, there is a section titled 'Insert New Flight Details'. This section contains a form with several input fields: 'Name :-' (with 'Emirates' entered), 'From :-' (with 'Mumbai' entered), 'To :-' (with 'Dubai' entered), 'Departure :-' (with '30-03-2022' entered), 'Time :-' (with a calendar dropdown showing 'March, 2022'), and 'Price :-'. There is also a 'Submit' button.