

# FlyAway(An airline Booking Portal (Sprint work and project Specification)

## Version history:

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Purpose	Sprint work and Project Specifications
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## Contents:

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### 1. Module in the Project:

- 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

### 2. Sprint wise work:

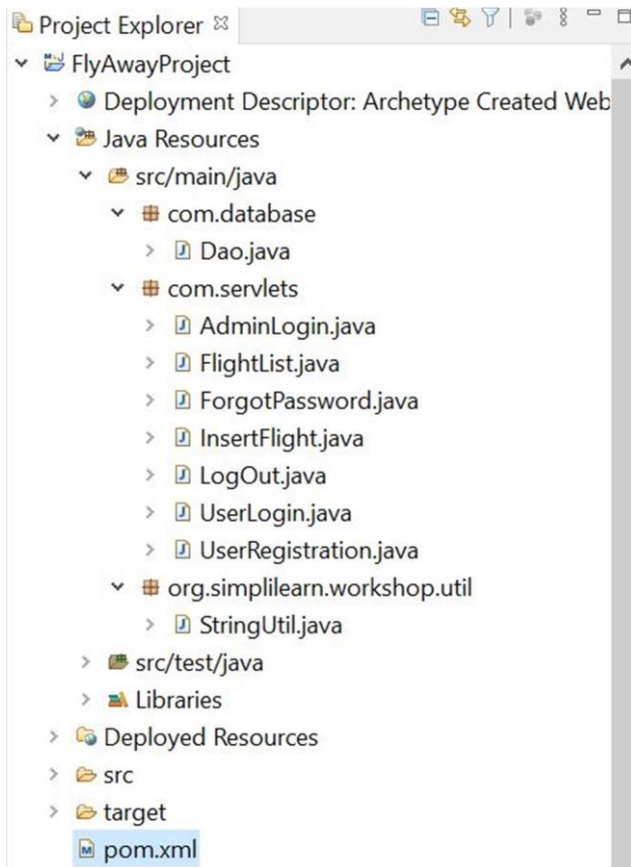
Sprint.no	Modules
1	<ul style="list-style-type: none"><li>• An admin login page where the admin can change the password after login, if he wishes</li><li>• A master list of places for source and destination</li><li>• A master list of airlines</li><li>• A list of flights where each flight has a source, destination, airline, and ticket price</li></ul>
2	Testing Deployment

### 3. GitHub Link:

GitHub Link	<a href="https://github.com/Naruto13133/FlyAway-Simplilearn-">https://github.com/Naruto13133/FlyAway-Simplilearn-</a>
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### . 3. Algorithms and flowcharts of the application:

## 1.0: Folder structure:



## 4. Source Code:

### 4.1(a): DataBase(Dao.Java):

```
package com.database;  
  
import java.sql.Connection;  
import java.sql.DriverManager;  
  
import java.sql.ResultSet;  
import java.sql.SQLException;  
import java.sql.Statement;  
import java.util.ArrayList;  
import java.util.HashMap;
```

```

import java.util.List;

import org.simplilearn.workshop.util.StringUtil;

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

    public Dao() throws ClassNotFoundException, SQLException{
        Class.forName("com.mysql.cj.jdbc.Driver");

        con=DriverManager.getConnection("jdbc:mysql://localhost:3306/flyaway","root","ussha");
        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")+"', '"+u
ser.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 {

```

```

        //PreparedStatement stm=con.prepareStatement("INSERT INTO 'flyaway.flights'
('name', 'from', 'to', 'date', 'time', 'price') values(?,?,?,?,?,?)");
        //String sql="INSERT INTO flights ('name','from','to','date','time','price')
values('"+flight.get("name")+"', '"+flight.get("from")+"', '"+flight.get("to")+"', '"+fl
ight.get("date")+"', '"+flight.get("time")+"', '"+flight.get("price")+"')";
        String query1 = "INSERT INTO flights (name, fromf, tof, datef, timef, price)
VALUES" + " (" +
                + StringUtil.fixSqlFieldValue(flight.get("name")) + "," + " '" +
StringUtil.fixSqlFieldValue(flight.get("from")) + "," + " '" +
                + StringUtil.fixSqlFieldValue(flight.get("to")) + "," + " '" +
StringUtil.fixSqlFieldValue(flight.get("date")) + "," + " '" +
                + StringUtil.fixSqlFieldValue(flight.get("time")) + "," + " '" +
StringUtil.fixSqlFieldValue(flight.get("price")) + ")";

        //String sql="INSERT INTO `flyaway`.`flights` (`name`, `fromf`, `tof`,
`datef`, `timef`, `price`) VALUES ('indigo', 'hyd', 'viz', '2021-04-08', '10:00',
'2000');";
        System.out.println(flight.get("date"));
        System.out.println(flight.get("time"));
        //String query1="INSERT into flyaway.flights (name,from,to,date,time,price)
values('indigo','hyd','viz','24-02-2022','10:30','2000')";
        try {
            //stm.execute();
            st.execute(query1);
            return true;
        } catch (SQLException e) {
            System.out.print("error");
            e.printStackTrace();
        }
        return false;
    }
}

```

#### 4.1(b):Servlets (AdminLogin.java)

```

package com.servlets;

import java.io.IOException;
import java.sql.SQLException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

import com.database.Dao;

```

```

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

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

        String email=request.getParameter("email");
        String password=request.getParameter("password");

        try {
            Dao dao=new Dao();

            if(dao.checkAdmin(email,password)) {
                response.sendRedirect("AdminHome.jsp");
            }
            else {
                HttpSession session=request.getSession();
                session.setAttribute("message", "Invalid Details");
                response.sendRedirect("AdminPage.jsp");
            }
        } catch (ClassNotFoundException | SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }

    }

}

```

#### 4.1(c): FirstFlight.Java:

```

package com.servlets;

import java.io.IOException;
import
java.sql.SQLException;
import java.util.List;

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

```



```

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

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

        String
        from=request.getParameter("from");
        String to=request.getParameter("to");
        String departure=request.getParameter("departure");

        try {
            Dao dao = new Dao();
            List<String[]> flights=dao.getAvailableFlights(from, to, departure);

            HttpSession session=request.getSession();
            session.setAttribute("flights", flights);

        } catch (ClassNotFoundException | SQLException e) {
            // TODO Auto-generated catch
            block e.printStackTrace();
        }
        response.sendRedirect("FlightList.jsp");
    }
}

```

#### ***4.1(D): ForgotPassword.Java:***

```

package com.servlets;

import
javax.servlet.annotation.WebServlet;
import java.io.IOException;
import java.sql.SQLException;

import
javax.servlet.ServletException;
import
javax.servlet.http.HttpServlet;
import
javax.servlet.http.HttpServletRequest;
import
javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

```

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

```
    String email=request.getParameter("email");
    String password=request.getParameter("password");

    try {
        Dao dao=new Dao();
        HttpSession session=request.getSession();
        if(dao.changeAdminPassword(email,password
        )) {
            session.setAttribute("message", "Password Changed
            Successfully");
        }
        else {
            session.setAttribute("message", "Invalid Details");
        }
    } catch (ClassNotFoundException | SQLException e) {
        // TODO Auto-generated catch
        block e.printStackTrace();
    }
    response.sendRedirect("AdminPage.jsp");
}
```

#### ***4.1(e): Insert Flight.Java:***

```
package com.servlets;

import
javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import java.io.IOException;
import
java.sql.SQLException;
import java.util.HashMap;

import javax.servlet.ServletException;
import
javax.servlet.http.HttpServletRequest;
import
javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

import com.database.Dao;
```

```
private static final long serialVersionUID = 1L;
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
```

```
    String
    name=request.getParameter("name");
    String
    from=request.getParameter("from");
    String to=request.getParameter("to");
    String departure=request.getParameter("departure");
    String time=request.getParameter("time");
    String price=request.getParameter("price");

    HashMap<String,String> flight=new
    HashMap<>(); flight.put("name", name);
    flight.put("from", from);
    flight.put("to", to);
    flight.put("date",
    departure);
    flight.put("time", time);
    flight.put("price", price);

    try {
        Dao dao=new Dao();
        HttpSession session=request.getSession();
        if(dao.insertFlight(flight)) {

            session.setAttribute("message", "Flight Added Successfully");
        }
        else {
            session.setAttribute("message", "Invalid Details");
        }
    } catch (ClassNotFoundException | SQLException e) {
        // TODO Auto-generated catch
        block System.out.print("error");
        e.printStackTrace();
    }
    response.sendRedirect("AdminHome.jsp");
}
```

#### **4.1(F): LogOut.Java:**

```
package com.servlets;

import
javax.servlet.annotation.WebServlet;
import java.io.IOException;
```

```

import
javax.servlet.ServletException;
import
javax.servlet.http.HttpServlet;
import
javax.servlet.http.HttpServletRequest;
import
javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

@WebServlet("/LogOut")
public class LogOut extends HttpServlet {
    private static final long serialVersionUID = 1L;
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
    ServletException, IOException {

        HttpSession session=request.getSession();
        session.setAttribute("user", null);
        response.sendRedirect("HomePage.jsp");
    }
}

```

#### 4.1(g): UserLogin.Java:

```

package com.servlets;

import javax.servlet.annotation.WebServlet;
import java.io.IOException;
import java.sql.SQLException;
import java.util.HashMap;

import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

import com.database.Dao;
@WebServlet("/UserLogin")
public class UserLogin extends HttpServlet {
    private static final long serialVersionUID = 1L;
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {

        String email=request.getParameter("email");
        String password=request.getParameter("password");

        try {
            Dao dao=new Dao();
            HashMap<String,String> user=dao.checkUser(email,password);
            HttpSession session=request.getSession();
        }
    }
}

```

```

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

```

#### 4.1(g): UserRegistration.Java:

```

package com.servlets;

import
javax.servlet.annotation.WebServlet;
import java.io.IOException;
import
java.sql.SQLException;
import java.util.HashMap;

import
javax.servlet.ServletException;
import
javax.servlet.http.HttpServlet;
import
javax.servlet.http.HttpServletRequest;
import
javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

import com.database.Dao;

@WebServlet("/UserRegistratio
n")
public class UserRegistration extends HttpServlet {
    private static final long serialVersionUID =
        1L;
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
        String email=request.getParameter("email");
        String

```

```

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

        try {
            Dao dao=new Dao();
            boolean result=dao.insertUser(user);
            HttpSession session=request.getSession();
            if(result) {
                session.setAttribute("message", "User Added Successfully");
            }
            else {
                session.setAttribute("message","Invalid Details");
            }
        } catch (ClassNotFoundException | SQLException e) {
            // TODO Auto-generated catch
            block e.printStackTrace();
        }
        response.sendRedirect("UserPage.jsp");
    }
}

```

#### 4.1(h): Simplilearn Workshop(StringUtil.java):

```

package org.simplilearn.workshop.util;

public class StringUtil {

    public static String fixSqlFieldValue(String value) {
        if (value == null) {
            return null;
        }
        int length = value.length();
        StringBuffer fixedValue = new StringBuffer((int)(length*1.1));
        for(int i = 0 ; i < length ;i++) {
            char c = value.charAt(i);
            if ( c == '\\' ) {
                fixedValue.append("\\");
            }
            else {
                fixedValue.append(c);
            }
        }
        return fixedValue.toString();
    }

    public static String encodeHtmlTag(String tag) {
        if (tag==null)

```

```

        return null;
    int length = tag.length();
    StringBuffer encodedTag = new StringBuffer(2 * length);
    for(int i = 0 ; i < length;i++) {
        char c = tag.charAt(i);
        if(c=='<')
            encodedTag.append("<");
        else if(c=='>')
            encodedTag.append(">");
        else if(c=='&')
            encodedTag.append("&");
        else if(c=='"')
            encodedTag.append(""");
        else if(c==' ')
            encodedTag.append("&nbsp;");
        else
            encodedTag.append(c);
    }
    return encodedTag.toString();
}
}
}

```

## 4.2: Web Folder:

### 4.2(A): AdminHome.Jsp:

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Admin Home</title>
</head>
<body >
<br>
<a href=HomePage.jsp style="color:blue;text-decoration:none ;font-size:35px;font-weight:bold;">FlyAway</a>
<br><br>
<center>
<h1>Insert New Flight Details</h1>

<div style="border:3px solid blue;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>
</center>
<%
    String message=(String)session.getAttribute("message");
    if(message!=null){
%>
<p style="color:silver;"><%=message %></p>
<%
        session.setAttribute("message", null);
    }
%>
</body>
</html>

```

#### 4.2(b): AdminPage.jsp:

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Admin Page</title>
</head>
<body >
<br>
<a href=HomePage.jsp style="color:black;text-decoration:none ;font-
size:35px;font-weight:bold;">FlyAway</a>
<br><br>
<center>
<h2>Admin Login</h2>
<div style="border:3px solid black;width:25%;border-radius:20px;padding:20px"
align="center">
<form action=AdminLogin method=post>
    <label for=email>Email :-</label> <input type="email" name=email id=email
/><br><br>
    <label for=pass>Password :-</label> <input type="password" name=password
id=pass /><br><br>

```



```

<input type=submit value=submit /> <input type=reset />
</form>
</div>
</center><br>
<a href=ForgotPassword.jsp style="font-size:25;color:red;">Forgot Password</a>

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

```

#### 4.2 (c): BookFlight.jsp:

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@ page import="java.util.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>FlyAway</title>
</head>
<body >
<br>
<a href=HomePage.jsp style="color:black;text-decoration:none ;font-size:35px;font-weight:bold;">FlyAway</a>
<br><br>

<%
    @SuppressWarnings("unchecked")
    HashMap<String,String>
    user=(HashMap<String,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>

```

#### 4.2 (d): FlightList.Jsp:

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<%@ page import="java.util.*" %>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Flight List</title>
</head>
<body >
<br>
<a href=HomePage.jsp style="color:blue;text-decoration:none;font-size:35px;font-weight:bold;">FlyAway</a>
<br><br>
<%
    @SuppressWarnings("unchecked")
    List<String[]> flights=(List<String[]>)session.getAttribute("flights");
    if(flights!=null){
%>

<h1>Available Flights</h1>

<center>
<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>
</center>
<center><a href=BookFlight.jsp>Book Now</a> </center>
<%
    }
%>

<%
    }
    else{
%>
<h1>There are no available flights</h1>
<%

```

```

    }
%>
</body>
</html>

```

#### 4.2 (e): ForgotPassword.jsp:

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body >
<br>
<a href=HomePage.jsp style="color:black;text-decoration:none ;font-
size:35px;font-weight:bold;">FlyAway</a>
<br><br>
<center>
<div style="border:3px solid black;width:25%;border-radius:20px;padding:20px"
align="center">
<form action=ForgotPassword method=post>
    <label for=email>Email :-</label> <input type="email" name=email id=email /><br><br>
    <label for=password>New Password :-</label> <input type="password"
name=password id=password /><br><br>
    <input type=submit value=submit /> <input type=reset />
</form>
</div>
</center>
</body>
</html>

```

#### 4.2 (f): HomePage.jsp:

```

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

```

```

</head>
<body >
<h1>FlyAway</h1>

<div align="right">
<a href="AdminPage.jsp">Admin Login</a>
</div>

<%
    @SuppressWarnings("unchecked")
    HashMap<String,String>
    user=(HashMap<String,String>)session.getAttribute("user");
    if(user!=null){
%>
<p>Welcome <%=user.get("name") %></p>
<a href="Logout">Logout</a>
<%
    }else{
%>
<a href=UserPage.jsp>User Login</a>
<%
    }
%>
<br><br>
<center>
<div style="border:5px solid black;width:25%;border-radius:20px;padding:20px"
align="center">
<form action=FlightList method=post>
    <label for=from>From :-</label> <input type=text name=from
id=from/><br><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>
</center>
</body>
</html>

```

#### 4.2 (g): UserPage.Jsp:

```

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

```

```

<title>Insert title here</title>
</head>
<body >
<br>
<a href=HomePage.jsp style="color:black;text-decoration:none ;font-size:35px;font-weight:bold;">FlyAway</a>
<br><br>
<center>
<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=password>Password</label><br></td>
    <td><input type="password" name=password id=password /></td>
    </tr>
    <tr>
    <td><input type=submit value=submit /></td>
    <td><input type=reset /></td>
    </tr>
    </table>
</form>
</div>
</center>
<br><br>
<i>New User-Create account</i>
<h4><a href=UserRegistration.jsp style="font-size:25;color:red;">Create Account</a></h4>

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

```

#### 4.2 (h): UserRegistration.jsp:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body >
<br>
<a href=HomePage.jsp style="color:black;text-decoration:none ;font-size:35px;font-weight:bold;">FlyAway</a>
<br><br>
<center>
<div style="border:3px solid black;width:25%;border-radius:20px;padding:20px"
align="center">
<form action=UserRegistration method=post>
    <label for=email>Email :-</label> <input type="email" name=email id=email
/><br><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>
</center>
</body>
</html>
```