ConnectionConfig:

package com.main.fly;

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;

public class ConncetionConfig {

public Connection con=null;

public Statement st=null;

public ConncetionConfig() throws ClassNotFoundException, SQLException{

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

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/flyaway","root"

,"Sairam@123456");

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;

}

}

AdminLogin:

package com.main.fly;

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.main.fly.ConncetionConfig;

@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 {

ConncetionConfig dao=new ConncetionConfig();

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();

}

}

}

ForgotPassword:

package com.main.fly;

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.main.fly.ConncetionConfig;

@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 {

ConncetionConfig dao=new ConncetionConfig();

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");

}

}

InsertFly:

package com.main.fly;

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.main.fly.ConncetionConfig;

@WebServlet("/InsertFlight")

public class InsertFly 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 {

ConncetionConfig dao=new ConncetionConfig();

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");

}

}

ListOfFlights:

package com.main.fly;

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.main.fly.ConncetionConfig;

@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 {

ConncetionConfig dao = new ConncetionConfig();

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");

}

}

LogOut:

package com.main.fly;

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");

}

}

Register:

package com.main.fly;

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.main.fly.ConncetionConfig;

@WebServlet("/UserRegistration")

public class Register 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 {

ConncetionConfig dao=new ConncetionConfig();

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");

}

}

StringUtil:

**package** com.main.fly;

**public** **class** StringUtil {

**public** **static** String fixSqlFieldValue(String value) {

**if** (value == **null**) {

**return** **null**;

}

**int** length = value.length();

StringBuffer fixedValue = **new** StringBuffer((**int**)(length\*1.1));

**for**(**int** i = 0 ; i < length ;i++) {

**char** c = value.charAt(i);

**if** ( c == '\'') {

fixedValue.append("''");

}

**else** {

fixedValue.append(c);

}

}

**return** fixedValue.toString();

}

**public** **static** String encodeHtmlTag(String tag) {

**if** (tag==**null**)

**return** **null**;

**int** length = tag.length();

StringBuffer encodedTag = **new** StringBuffer(2 \* length);

**for**(**int** i = 0 ; i < length;i++) {

**char** c = tag.charAt(i);

**if**(c=='<')

encodedTag.append("<");

**else** **if**(c=='>')

encodedTag.append(">");

**else** **if**(c=='&')

encodedTag.append("&amp;");

**else** **if**(c=='"')

encodedTag.append("&quot;");

**else** **if**(c==' ')

encodedTag.append("&nbsp;");

**else**

encodedTag.append(c);

}

**return** encodedTag.toString();

}

}

UserLogin:

package com.main.fly;

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.main.fly.ConncetionConfig;

@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 {

ConncetionConfig dao=new ConncetionConfig();

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();

}

}

}

JSP

AdminHome:

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<html>

<head>

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

<title>AdminHome</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>

AdminPage:

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<html>

<head>

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

<title>AdminPage</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>AdminLogin</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>

BookFlight:

<%@ 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>

FlightList:

<%@ 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>

ForgotPassword:

<%@ 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=*pass*>New Password :-</label> <input type=*"password"*

name=*password* id=*pass* /><br><br>

<input type=*submit* value=*submit* /> <input type=*reset* />

</form>

</div>

</body>

</html>

HomePage:

<%@ 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"*>AdminLogin</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>

UserPage:

<%@ 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>

UserRegistration:

<%@ 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*>AadhaarNo. :-</label> <input type=*"text"* name=*adno* id=*adno*

/><br><br>

<input type=*submit* value=*submit* /> <input type=*reset* />

</form>

</div>

</body>

</html>

WEB.XML:

<?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>