**Flyaway**

**Code:**

**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 >

<center><h1>FlyAway</h1></center>

<br>

<%

@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**{

%>

<center><font color=*'white'*>

<a href=*UserPage.jsp*><font color=*'red'*>User Login</font></a>||<a href=*"AdminPage.jsp"*><font color=*'blue'*>Admin Login</font></a></font>

</center>

<br>

<%

}

%>

<br><br>

<center>

<table border=*'2'*>

<tr><th>

<br><br>

<h2>Search availability</h2>

<br><br>

<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>

<br><br>

</th></tr>

</table>

</center>

</body>

</html>

**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>

<center>

<h2>Admin Login</h2>

<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>

<br>

<a href=*"HomePage.jsp"*>Home Page</a>

<br><br>

</center><br>

<a href=*ForgotPassword.jsp*><font color=*'red'* size=*'5'*>Forgot Password</font></a>

<%

String message=(String)session.getAttribute("message");

**if**(message!=**null**){

%>

<p><font color=*'blue'*><%=message %></font></p>

<%

session.setAttribute("message", **null**);

}

%>

</body>

</html>

**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>

<center>

<h1>Insert New Flight Details</h1>

<br>

<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>

<br>

<a href=*"HomePage.jsp"*>Home Page</a>

<br><br>

</center>

<%

String message=(String)session.getAttribute("message");

**if**(message!=**null**){

%>

<p style="color:*silver*;"><%=message %></p>

<%

session.setAttribute("message", **null**);

}

%>

</body>

</html>

**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>

<br><br>

<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>

<br>

<a href=*"HomePage.jsp"*>Home Page</a>

<br><br>

</center>

</body>

</html>

**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 >

<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>

<br>

<a href=*"HomePage.jsp"*>Home Page</a>

<br><br>

</center>

</body>

</html>

**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 >

<center>

<h2>User Login</h2>

<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>

<br>

<a href=*"HomePage.jsp"*>Home Page</a>

<br><br>

</center>

<br><br>

<i>New User-Create account</i>

<h4><a href=*UserRegistration.jsp*><font color=*'red'* size=*'5'*>Create Account</font></a></h4>

<%

String message=(String)session.getAttribute("message");

**if**(message!=**null**){

%>

<p> <font color=*'blue'*><%=message %></font></p>

<%

session.setAttribute("message", **null**);

}

%>

</body>

</html>

**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>

<%

@SuppressWarnings("unchecked")

List<String[]> flights=(List<String[]>)session.getAttribute("flights");

**if**(flights!=**null**){

%>

<center>

<h1>Available Flights</h1>

</center>

<center>

<br><br><br>

<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><br><a href=*Account.jsp*>payment</a> ||

<a href=*"HomePage.jsp"*>Home Page</a></center>

<%

}

%>

<%

}

**else**{

%>

<center>

<h1>There are no available flights</h1>

</center>

<br>

<a href=*"HomePage.jsp"*>Home Page</a>

<br><br>

<%

}

%>

</body>

</html>

**Account.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>

<center>

<h2>BANK TRANSACTION</h2>

<form action= *"AccountController.jsp"* method=*"post"*>

<label for=*email*>account number :-</label> <input type=*"text"* name=*accno* id=*accno* /><br><br>

<label for=*pass*>Password :-</label> <input type=*"password"* name=*password* id=*password* /><br><br>

<label for=*name*>Name :-</label> <input type=*"text"* name=*name* id=*name* /><br><br>

<label for=*phno*>Amount :-</label> <input type=*"text"* name=*amount* id=*amount* /><br><br>

<input type=*submit* value= *book\_now* /> <input type=*reset* />

</form>

<br>

<br>

<a href=*"HomePage.jsp"*>Home Page</a>

<br><br>

</center>

</body>

</html>

**AccountController.jsp:**

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

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

<%@page import=*"com.bean.Account"* %>

<%@page import=*"com.service.AccountService"* %>

<%@page import=*"java.io.PrintWriter"* %>

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<%

PrintWriter pw=response.getWriter();

response.setContentType("text/html");

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

**int** accno = Integer.parseInt(request.getParameter("accno"));

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

**float** amount = Float.parseFloat(request.getParameter("amount"));

Account acc =**new** Account();

acc.setAccno(accno);

acc.setName(name);

acc.setAmount(amount);

acc.setPassword(password);

AccountService as=**new** AccountService();

as.createAccount(acc);

String result=as.withdraw(acc);

pw.println("<html><body><center><h1>");

pw.println(result);

pw.println("</h1></center></body></html>");

**float** res=as.findAccountBalance(accno);

pw.println("<html><body><center><h1>Balance amount is ");

pw.println(res);

pw.println("</h1></center></body></html>");

%>

<%@include file=*"BookFlight.jsp"* %>

</body>

</html>

**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>

<%

@SuppressWarnings("unchecked")

HashMap<String,String> user=(HashMap<String,String>)session.getAttribute("user");

**if**(user==**null**){

response.sendRedirect("UserPage.jsp");

}

%>

<p><center><font color=*'green'* size=*'25'*>Flight Booked Successfully</font></p>

<br>

<br>

<center>

<a href=*"HomePage.jsp"*>Home Page</a>

<br><br>

</center>

</body>

</html>

**StringUtil.java:**

**package** 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("&amp;");

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

encodedTag.append("&quot;");

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

encodedTag.append("&nbsp;");

**else**

encodedTag.append(c);

}

**return** encodedTag.toString();

}

}

**AccountService.java:**

package com.service;

import java.util.ArrayList;

import java.util.Iterator;

import java.util.List;

import com.bean.Account;

public class AccountService {

List<Account> listOfAccount = new ArrayList<Account>();

public String createAccount(Account account) {

int flag=0;

if(listOfAccount.size()==0) {

listOfAccount.add(account);

return "Account created";

}else {

Iterator<Account> li = listOfAccount.iterator();

while(li.hasNext()) {

Account acc = li.next();

if(acc.getAccno()==account.getAccno()) {

flag++;

break;

}

}

}

if(flag>0) {

flag=0;

return "Account number must be unique";

}else {

listOfAccount.add(account);

return "Account created";

}

}

public Account findAccount(int accno) {

Iterator<Account> li = listOfAccount.iterator();

while(li.hasNext()) {

Account acc = li.next();

if(acc.getAccno()==accno) {

return acc;

}

}

return null;

}

public float findAccountBalance(int accno) {

Iterator<Account> li = listOfAccount.iterator();

while(li.hasNext()) {

Account acc = li.next();

if(acc.getAccno()==12345678) {

return acc.getAmount();

}

}

return -1;

}

public String withdraw(Account account) {

int flag =0;

Iterator<Account> li = listOfAccount.iterator();

while(li.hasNext()) {

Account acc = li.next();

if(acc.getAccno()==12345678) {

float depo=250000;

account.setAmount(depo -account.getAmount());

flag++;

break;

}

}

if(flag>0) {

flag =0;

return "Withdraw done successfully";

}else {

return "Account number doesn't exists";

}

}

}

**Account.java:**

**package** com.bean;

**public** **class** Account {

**private** **int** accno;

**private** String name;

**private** **float** amount;

**private** String password;

**public** **int** getAccno() {

**return** accno;

}

**public** **void** setAccno(**int** accno) {

**this**.accno = accno;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** **float** getAmount() {

**return** amount;

}

**public** **void** setAmount(**float** amount) {

**this**.amount = amount;

}

**public** String getPassword() {

**return** password;

}

**public** **void** setPassword(String password) {

**this**.password = password;

}

@Override

**public** String toString() {

**return** "Account [accno=" + accno + ", name=" + name + ", amount=" + amount + ", password=" + password + "]";

}

}

**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 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/java","root","sarasowmi");

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 java.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 {

//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")+"','"+flight.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;

}

}

**Pom.xml:**

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

<modelVersion>4.0.0</modelVersion>

<groupId>pro1</groupId>

<artifactId>pro1</artifactId>

<version>0.0.1-SNAPSHOT</version>

<packaging>war</packaging>

<build>

<plugins>

<plugin>

<artifactId>maven-compiler-plugin</artifactId>

<version>3.8.1</version>

<configuration>

<release>11</release>

</configuration>

</plugin>

<plugin>

<artifactId>maven-war-plugin</artifactId>

<version>3.2.3</version>

</plugin>

</plugins>

</build>

<dependencies>

<dependency>

<groupId>mysql</groupId>

<artifactId>mysql-connector-java</artifactId>

<version>8.0.16</version>

</dependency>

<dependency>

<groupId>org.hibernate</groupId>

<artifactId>hibernate-core</artifactId>

<version>5.5.6.Final</version>

</dependency>

</dependencies>

</project>

**Sql Queries:**

Use java;

create table admin(email varchar(30), password varchar(30));

create table user(email varchar(30), password varchar(30), name varchar(50), phno bigint, adno bigint);

create table flights(name varchar(30), fromf varchar(30), tof varchar(30), datef date, timef time, price bigint);

insert into admin values('admin@gmail.com' , 'admin123');

select \* from admin;

select \* from flights;

select \* from user;