**Phase 2: Become a Back End Expert - Project FlyAway**

**Developer Details:**

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Program Name: FlyAway

**Program Background :**

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 9 server
4. Hibernate
5. Java Servlets
6. Java Server Pages (JSP)
7. JSTL
8. HTML
9. Apache Maven

**Source Code:**

**Hibernate Configuration Class**

**HibernateUtil.java**

**package** com.simplilearn.flight.util;**import** java.util.Properties;

**import** org.hibernate.SessionFactory;

**import** org.hibernate.boot.registry.StandardServiceRegistryBuilder;

**import** org.hibernate.cfg.Configuration;

**import** org.hibernate.cfg.Environment;

**import** org.hibernate.service.ServiceRegistry;

**import** com.simplilear.flight.model.AdminDetails;

**import** com.simplilear.flight.model.BookingInfo;

**import** com.simplilear.flight.model.Flight\_Details;

**import** com.simplilear.flight.model.UserDetails;

**public** **class** HibernateUtil {

**private** **static** SessionFactory *sessionFactory*;

**public** **static** SessionFactory getSessionFactory() {

**if** (*sessionFactory* == **null**) {

**try** {

Configuration configuration = **new** Configuration();

// Hibernate settings equivalent to hibernate.cfg.xml's properties

Properties settings = **new** Properties();

settings.put(Environment.***DRIVER***, "com.mysql.jdbc.Driver");

settings.put(Environment.***URL***, "jdbc:mysql://localhost:3306/flyaway");

settings.put(Environment.***USER***, "root");

settings.put(Environment.***PASS***, "root");

settings.put(Environment.***DIALECT***, "org.hibernate.dialect.MySQL8Dialect");

settings.put(Environment.***SHOW\_SQL***, "true");

settings.put(Environment.***CURRENT\_SESSION\_CONTEXT\_CLASS***, "thread");

settings.put(Environment.***HBM2DDL\_AUTO***, "update");

configuration.setProperties(settings);

configuration.addAnnotatedClass(Flight\_Details.**class**);

configuration.addAnnotatedClass(UserDetails.**class**);

configuration.addAnnotatedClass(AdminDetails.**class**);

configuration.addAnnotatedClass(BookingInfo.**class**);

ServiceRegistry serviceRegistry = **new** StandardServiceRegistryBuilder()

.applySettings(configuration.getProperties()).build();

System.***out***.println("Hibernate Java Config serviceRegistry created");

*sessionFactory* = configuration.buildSessionFactory(serviceRegistry);

**return** *sessionFactory*;

} **catch** (Exception e) {

e.printStackTrace();

}

}

**return** *sessionFactory*;

}

}

**Dao Class**

**FlightsDao.java**

**package** com.simplilearn.flight.dao;

**import** java.util.List;

**import** javax.servlet.annotation.WebServlet;

**import** org.hibernate.Session;

**import** org.hibernate.Transaction;

**import** org.hibernate.query.Query;

**import** com.simplilear.flight.model.AdminDetails;

**import** com.simplilear.flight.model.BookingInfo;

**import** com.simplilear.flight.model.Flight\_Details;

**import** com.simplilear.flight.model.UserDetails;

**import** com.simplilearn.flight.util.HibernateUtil;

**public** **class** FlightsDao {

**public** **void** saveFlight(Flight\_Details flight) {

Transaction transaction =**null**;

**try**(Session session = HibernateUtil.*getSessionFactory*().openSession()){

transaction = session.beginTransaction();

session.save(flight);

transaction.commit();

}

**catch**(Exception e) {

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

transaction.rollback();

}

e.printStackTrace();

}

}

@SuppressWarnings("unchecked")

**public** List<Flight\_Details> getAllFlights() {

List < Flight\_Details > flightList = **null**;

**try** (Session session = HibernateUtil.*getSessionFactory*().openSession()) {

// start a transaction

// get an user object

System.***out***.println("1.from DAO");

flightList = session.createQuery("from Flight\_Details").list();

} **catch** (Exception e) {

e.printStackTrace();

}

**return** flightList;

}

**public** **void** saveUser(UserDetails fuser) {

Transaction transaction =**null**;

**try**(Session session = HibernateUtil.*getSessionFactory*().openSession()){

transaction = session.beginTransaction();

session.save(fuser);

transaction.commit();

}

**catch**(Exception e) {

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

transaction.rollback();

}

e.printStackTrace();

}

}

@SuppressWarnings("unchecked")

**public** List<Flight\_Details> getSerachedFlights(String from, String to, String date) {

List < Flight\_Details > searchflightList = **null**;

**try** (Session session = HibernateUtil.*getSessionFactory*().openSession()) {

// start a transaction

Query q = session.createQuery("from Flight\_Details where flight\_from=:n and flight\_to = :m and fdate = :o");

q.setParameter("n", from);

q.setParameter("m", to);

q.setParameter("o", date);

searchflightList = q.list();

// commit transaction

} **catch** (Exception e) {

e.printStackTrace();

}

**return** searchflightList;

}

**public** **boolean** adminValidate(String name, String ppassword) {

String password = ppassword;

**boolean** value = **false**;

AdminDetails admin;

**try**(Session session = HibernateUtil.*getSessionFactory*().openSession()){

admin = (AdminDetails) session.createQuery("FROM AdminDetails WHERE aname = :name").setParameter("name", name).uniqueResult();

System.***out***.println(password);

String p = admin.getApassword();

System.***out***.println(p);

System.***out***.println(admin);

**if**(admin.getApassword().equals(password)) {

System.***out***.println(admin);

value = **true**;

}**else** {

value = **false**;

}

}**catch** (Exception e) {

e.printStackTrace();

}

**return** value;

}

**public** **void** updateAdminPassword(AdminDetails adminde) {

Transaction transaction = **null**;

**try** (Session session = HibernateUtil.*getSessionFactory*().openSession()) {

// start a transaction

transaction = session.beginTransaction();

// save the student object

session.update(adminde);

// commit transaction

transaction.commit();

} **catch** (Exception e) {

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

transaction.rollback();

}

e.printStackTrace();

}

}

**public** **void** saveBooking(BookingInfo book) {

Transaction transaction =**null**;

**try**(Session session = HibernateUtil.*getSessionFactory*().openSession()){

transaction = session.beginTransaction();

session.save(book);

transaction.commit();

}

**catch**(Exception e) {

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

transaction.rollback();

}

e.printStackTrace();

}

}

**Model Class:**

**1.AdminDetails.java:**

**package** com.simplilear.flight.model;

**import** javax.persistence.Entity;

**import** javax.persistence.GeneratedValue;

**import** javax.persistence.GenerationType;

**import** javax.persistence.Id;

**import** javax.persistence.Table;

@Entity

@Table(name="admin")

**public** **class** AdminDetails {

@Id

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

**private** **int** aid;

**private** String aname;

**private** String apassword;

**public** AdminDetails() {

}

**public** **int** getAid() {

**return** aid;

}

**public** **void** setAid(**int** aid) {

**this**.aid = aid;

}

**public** String getAname() {

**return** aname;

}

**public** **void** setAname(String aname) {

**this**.aname = aname;

}

**public** String getApassword() {

**return** apassword;

}

**public** **void** setApassword(String apassword) {

**this**.apassword = apassword;

}

**public** AdminDetails(**int** aid, String aname, String apassword) {

**super**();

**this**.aid = aid;

**this**.aname = aname;

**this**.apassword = apassword;

}

}

**2.BookingInfo.java:**

**package** com.simplilear.flight.model;

**import** javax.persistence.Entity;

**import** javax.persistence.GeneratedValue;

**import** javax.persistence.GenerationType;

**import** javax.persistence.Id;

**import** javax.persistence.OneToOne;

**import** javax.persistence.Table;

@Entity

@Table(name="bookinginfo")

**public** **class** BookingInfo {

@Id

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

**private** **int** bid;

**private** String btraveller;

**private** **float** bprice;

@OneToOne

**private** UserDetails user;

**public** BookingInfo() {

}

**public** **int** getBid() {

**return** bid;

}

**public** **void** setBid(**int** bid) {

**this**.bid = bid;

}

**public** String getBtraveller() {

**return** btraveller;

}

**public** **void** setBtraveller(String btraveller) {

**this**.btraveller = btraveller;

}

**public** **float** getBprice() {

**return** bprice;

}

**public** **void** setBprice(**float** bprice) {

**this**.bprice = bprice;

}

**public** UserDetails getUser() {

**return** user;

}

**public** **void** setUser(UserDetails user) {

**this**.user = user;

}

**public** BookingInfo(String btraveller, **float** bprice, UserDetails user) {

**super**();

**this**.btraveller = btraveller;

**this**.bprice = bprice;

**this**.user = user;

}

}

**3.Flight\_Detials.java:**

**package** com.simplilear.flight.model;

**import** javax.persistence.Entity;

**import** javax.persistence.GeneratedValue;

**import** javax.persistence.GenerationType;

**import** javax.persistence.Id;

**import** javax.persistence.Table;

@Entity

@Table(name="flight\_details")

**public** **class** Flight\_Details {

@Id

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

**private** **int** fid;

**private** String flight\_name;

**private** String flight\_from;

**private** String flight\_to;

**private** **float** fprice;

**private** String fdate;

**private** String ftime;

**public** Flight\_Details(String flight\_name, String flight\_from, String flight\_to, **float** fprice, String fdate,

String ftime) {

**super**();

**this**.flight\_name = flight\_name;

**this**.flight\_from = flight\_from;

**this**.flight\_to = flight\_to;

**this**.fprice = fprice;

**this**.fdate = fdate;

**this**.ftime = ftime;

}

**public** **int** getFid() {

**return** fid;

}

**public** **void** setFid(**int** fid) {

**this**.fid = fid;

}

**public** String getFlight\_name() {

**return** flight\_name;

}

**public** **void** setFlight\_name(String flight\_name) {

**this**.flight\_name = flight\_name;

}

**public** String getFlight\_from() {

**return** flight\_from;

}

**public** **void** setFlight\_from(String flight\_from) {

**this**.flight\_from = flight\_from;

}

**public** String getFlight\_to() {

**return** flight\_to;

}

**public** **void** setFlight\_to(String flight\_to) {

**this**.flight\_to = flight\_to;

}

**public** **float** getFprice() {

**return** fprice;

}

**public** **void** setFprice(**float** fprice) {

**this**.fprice = fprice;

}

**public** String getFdate() {

**return** fdate;

}

**public** **void** setFdate(String fdate) {

**this**.fdate = fdate;

}

**public** String getFtime() {

**return** ftime;

}

**public** **void** setFtime(String ftime) {

**this**.ftime = ftime;

}

**public** Flight\_Details() {

**super**();

}

@Override

**public** String toString() {

**return** "Flight\_Details [fid=" + fid + ", flight\_name=" + flight\_name + ", flight\_from=" + flight\_from

+ ", flight\_to=" + flight\_to + ", fprice=" + fprice + ", fdate=" + fdate + ", ftime=" + ftime + "]";

}

}

**4.UserDetails.java:**

**package** com.simplilear.flight.model;

**import** javax.persistence.Entity;

**import** javax.persistence.GeneratedValue;

**import** javax.persistence.GenerationType;

**import** javax.persistence.Id;

**import** javax.persistence.Table;

@Entity

@Table(name = "userdetials")

**public** **class** UserDetails {

@Id

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

**private** **int** uid;

**private** String uname;

**private** String uemail;

**private** **double** umobnumber;

**private** String usex;

**private** String uaddress;

**private** String upassword;

**public** UserDetails() {

}

**public** UserDetails(String uname, String uemail, **double** umobnumber, String usex, String uaddress, String upassword) {

**super**();

**this**.uname = uname;

**this**.uemail = uemail;

**this**.umobnumber = umobnumber;

**this**.usex = usex;

**this**.uaddress = uaddress;

**this**.upassword = upassword;

}

**public** **int** getUid() {

**return** uid;

}

**public** **void** setUid(**int** uid) {

**this**.uid = uid;

}

**public** String getUname() {

**return** uname;

}

**public** **void** setUname(String uname) {

**this**.uname = uname;

}

**public** String getUemail() {

**return** uemail;

}

**public** **void** setUemail(String uemail) {

**this**.uemail = uemail;

}

**public** **double** getUmobnumber() {

**return** umobnumber;

}

**public** **void** setUmobnumber(**double** umobnumber) {

**this**.umobnumber = umobnumber;

}

**public** String getUsex() {

**return** usex;

}

**public** **void** setUsex(String usex) {

**this**.usex = usex;

}

**public** String getUaddress() {

**return** uaddress;

}

**public** **void** setUaddress(String uaddress) {

**this**.uaddress = uaddress;

}

**public** String getUpassword() {

**return** upassword;

}

**public** **void** setUpassword(String upassword) {

**this**.upassword = upassword;

}

@Override

**public** String toString() {

**return** "UserDetails [uid=" + uid + ", uname=" + uname + ", uemail=" + uemail + ", umobnumber=" + umobnumber

+ ", usex=" + usex + ", uaddress=" + uaddress + ", upassword=" + upassword + "]";

}

}

**HTML Pages:**

**Index.html**

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

</head>

<body>

<div style="background-color: *aqua*;text-align: *center*;">

<H1>FLYAWAY</H1>

<form action=*"searchServlet"* method=*"get"*>

<h2>Book Flight</h2>

<label for=*"ffrom"*>FROM</label>

<select name=*"ffrom"*>

<option value=*"Kolkata"*>Kolkata</option>

<option value=*"Bengaluru"*>Bengaluru</option>

<option value=*"Mangaluru"*>Mangaluru</option>

<option value=*"Hyderbad"*>Hyderbad</option>

<option value=*"Delhi"*>Delhi</option>

<option value=*"Ahmedabad"*>Ahmedabas</option>

<option value=*"Mumbai"*>Mumbai</option>

<option value=*"Kashmir"*>Kashmir</option>

</select>

<br><br>

<label for=*"fto"*>To</label>

<select name=*"fto"*>

<option value=*"Bengaluru"*>Bengaluru</option>

<option value=*"Mangaluru"*>Mangaluru</option>

<option value=*"Hyderbad"*>Hyderbad</option>

<option value=*"Delhi"*>Delhi</option>

<option value=*"Ahmedabad"*>Ahmedabas</option>

<option value=*"Mumbai"*>Mumbai</option>

<option value=*"Kashmir"*>Kashmir</option>

<option value=*"Kolkata"*>Kolkata</option>

</select>

<br><br>

Date<input type=*"date"* name=*"fdate"*><br><br>

Number of Traveler<input type=*"number"* name=*"ftraveller"*><br><br>

<input type=*"submit"* value=*"Serach"*><br><br>

<a href=*"AdminPage.jsp"*><span style="text-align: *right*;" > Admin Login</span></a>

</form>

</div>

</body>

</html>

**JSP pages**

**1.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=*index.html* 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=*name*>Name:-</label> <input type=*"text"* name=*"aname"* /><br><br>

Password : <input type=*"password"* name=*"apassword"* /><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>

**2.AdminAdd.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

</head>

<body>

<div>

<center>

<h1> Add Flight Details</h1>

<form action=*"flightadd"*>

flight Name<input type=*"text"* name=*"fname"*><br>

<label for=*"ffrom"*>FROM</label>

<select name=*"ffrom"*>

<option value=*"Kolkata"*>Kolkata</option>

<option value=*"Bengaluru"*>Bengaluru</option>

<option value=*"Mangaluru"*>Mangaluru</option>

<option value=*"Hyderbad"*>Hyderbad</option>

<option value=*"Delhi"*>Delhi</option>

<option value=*"Ahmedabad"*>Ahmedabas</option>

<option value=*"Mumbai"*>Mumbai</option>

<option value=*"Kashmir"*>Kashmir</option>

</select>

<br><br>

<label for=*"fto"*>To</label>

<select name=*"fto"*>

<option value=*"Bengaluru"*>Bengaluru</option>

<option value=*"Mangaluru"*>Mangaluru</option>

<option value=*"Hyderbad"*>Hyderbad</option>

<option value=*"Delhi"*>Delhi</option>

<option value=*"Ahmedabad"*>Ahmedabas</option>

<option value=*"Mumbai"*>Mumbai</option>

<option value=*"Kashmir"*>Kashmir</option>

<option value=*"Kolkata"*>Kolkata</option>

</select>

<br><br>

Price<input type=*"text"* name=*"fprice"*><br>

Date<input type=*"date"* name =*"fdate"*><br>

Date<input type=*"time"* name =*"ftime"*><br>

<input type=*"submit"* value=*"Submit"*><br>

</form>

</center>

</div>

<br>

<br>

<br>

<a href=*"index.html"*><span style="text-align: *right*;" > Return to Home Page</span></a>

</body>

</html>

**3.ForgotPassword.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

</head>

<body>

<center>

<h1> Update new password</h1>

<form action=*"UpdatePassword"* method=*"post"*>

Enter new Password: <input type = *"text"* name =*"apassword"*>

<input type=*"submit"* value=*"Update"*>

</center>

</form>

</body>

</html>

**4.flightsAvailable.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"* %>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

</head>

<body>

<div align=*"center"* >

<c:choose>

<c:when test=*"*${flightlist.isEmpty()}*"*>

<h1>Flights Not available</h1><br>

<a href=*index.html*>Return to Homepage</a>

</c:when>

<c:otherwise>

<h1>Available Flights</h1>

<table border=*"1"* style="background-color: *olive*; text-align: *center*;border-top-color: *aqua*;border-radius: *10px*">

<tr>

<th>Name</th>

<th>To</th>

<th>From</th>

<th>Price</th>

<th>Time</th>

</tr>

<c:forEach var=*"flights"* items=*"*${flightlist}*"*>

<tr>

<td><c:out value=*"*${flights.flight\_name}*"* /></td>

<td><c:out value=*"*${flights.flight\_to}*"* /></td>

<td><c:out value=*"*${flights.flight\_from}*"* /></td>

<td><c:out value=*"*${flights.fprice}*"* /></td>

<td><c:out value=*"*${flights.ftime}*"*></c:out>

<td><a href=*"paymentServlet?name=*${flights.flight\_name}*&to=*${flights.flight\_to}*&from=*${flights.flight\_from}*&price=*${flights.fprice}*&id=*${flights.fid}*&time=*${flights.ftime}*&date=*${flights.fdate}*"*>Book NOW</a></td>

</tr>

</c:forEach>

</table>

</c:otherwise>

</c:choose>

</div>

</body>

</html>

**5.userDetails.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

</head>

<body>

<form action=*"userAdding"* method=*"post"*>

<h1>Personal Details</h1>

Name:<input type=*"text"* name=*"uname"*><br>

Sex :<input type=*"radio"* name=*"usex"* value=*"Male"*>Male

<input type=*"radio"* name=*"usex"* value=*"Female"*>Female

<br>

Address :<input type=*"text"* name=*"uaddress"*><br>

Email:<input type=*"email"* name=*"uemail"*><br>

Mobile No:<input type=*"text"* name=*"umobno"*><br>

Password:<input type=*"password"* name=*"upassword"*>

<input type=*"submit"* value=*"Next"*>

</form>

</body>

</html>

**6.payment.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"* %>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

</head>

<body>

<h1> Payment Page</h1>

Total Amount of booking: Rs <c:out value=*"*${bfpay }*"*></c:out><br>

<form action=*"BookingAdd"* method=*"get"*><br>

Card Number<input type=*"text"* name=*"card"*><br>

CVV number<input type=*"text"* name=*"evv"*><br>

<input type=*"submit"* value=*"Pay"*><br>

</form>

</body>

</html>

**7.BookinDetails.jsp**

<%@page import=*"org.hibernate.internal.build.AllowSysOut"*%>

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"* %>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

</head>

<body>

<h1>Booking details</h1>

<table border=*"1"* style="background-color: *olive*; text-align: *center*;border-top-color: *aqua*;border-radius: *10px*">

<tr>

<th>UserName</th>

<th>Email</th>

<th>Address</th>

<th>Flight Name</th>

<th>From</th>

<th>To</th>

<th>Date</th>

<th>Time</th>

<th>Number of Traveler</th>

<th>Amount Paid</th>

</tr>

<tr>

<td><c:out value=*"*${fuser.getUname()}*"*/></td>

<td><c:out value=*"*${fuser.getUemail()}*"* /></td>

<td><c:out value=*"*${fuser.getUaddress()}*"* /></td>

<td><c:out value=*"*${bfname}*"*/></td>

<td><c:out value=*"*${bffrom}*"* /></td>

<td><c:out value=*"*${bfto}*"* /></td>

<td><c:out value=*"*${bfdate}*"*/></td>

<td><c:out value=*"*${bftime}*"* /></td>

<td><c:out value=*"*${ftraveller}*"* /></td>

<td><c:out value=*"*${bfpay}*"* /></td>

</tr>

</table>

<br>

<br>

<br>

<h1>Thank You!</h1>

</body>

</html>

**Servlets:**

**1.AdminLogin.java**

package com.simplilearn.flight.web;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import com.simplilear.flight.model.AdminDetails;

import com.simplilear.flight.model.Flight\_Details;

import com.simplilearn.flight.dao.FlightsDao;

/\*\*

\* Servlet implementation class AdminLogin

\*/

@WebServlet("/AdminLogin")

public class AdminLogin extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public AdminLogin() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

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

// TODO Auto-generated method stub

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

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

System.out.println("password:"+password);

System.out.println("name:"+name);

PrintWriter out = response.getWriter();

response.setContentType("text/html");

FlightsDao flightsDao = new FlightsDao();

RequestDispatcher dispatcher = null;

if(flightsDao.adminValidate(name, password)) {

dispatcher = request.getRequestDispatcher("AdminAdd.jsp");

dispatcher.forward(request, response);

}else {

dispatcher = request.getRequestDispatcher("AdminPage.jsp");

dispatcher.include(request, response);

out.print("<center> Invalid Credential</center>");

}

}

}

**2.UpdatePassword.java**

package com.simplilearn.flight.web;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import com.simplilear.flight.model.AdminDetails;

import com.simplilearn.flight.dao.FlightsDao;

/\*\*

\* Servlet implementation class UpdatePassword

\*/

@WebServlet("/UpdatePassword")

public class UpdatePassword extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public UpdatePassword() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

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

// TODO Auto-generated method stub

int id = 1;

String name = "admin";

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

PrintWriter out = response.getWriter();

FlightsDao fdao = new FlightsDao();

AdminDetails adminde = new AdminDetails(id,name,password);

fdao.updateAdminPassword(adminde);

RequestDispatcher dispatcher = request.getRequestDispatcher("ForgotPassword.jsp");

dispatcher.include(request, response);

out.print("<center> Updated password successfully</center><br><br>");

out.print("<center><a href=AdminPage.jsp> click here to Login as Admin</a></center><br>");

}

}

**3.flightAdding.java**

package com.simplilearn.flight.web;

import java.io.IOException;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import com.simplilear.flight.model.Flight\_Details;

import com.simplilearn.flight.dao.FlightsDao;

/\*\*

\* Servlet implementation class FlightAdding

\*/

@WebServlet("/flightadd")

public class FlightAdding extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public FlightAdding() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

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

// TODO Auto-generated method stub

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

String from = request.getParameter("ffrom");

String to = request.getParameter("fto");

String date = request.getParameter("fdate");

float price = Float.parseFloat(request.getParameter("fprice"));

String time = request.getParameter("ftime");

Flight\_Details flight = new Flight\_Details(name, from, to, price, date, time);

FlightsDao flightsDao = new FlightsDao();

flightsDao.saveFlight(flight);

response.sendRedirect("AdminAdd.jsp");

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

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

// TODO Auto-generated method stub

doGet(request, response);

}

}

**4.searchServlet.java**

package com.simplilearn.flight.web;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.List;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

import com.simplilear.flight.model.Flight\_Details;

import com.simplilearn.flight.dao.FlightsDao;

/\*\*

\* Servlet implementation class searchServlet

\*/

@WebServlet("/searchServlet")

public class searchServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public searchServlet() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

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

HttpSession session = request.getSession();

String from = request.getParameter("ffrom");

String to = request.getParameter("fto");

String date = request.getParameter("fdate");

String ntraveller = request.getParameter("ftraveller");

session.setAttribute("ftraveller", ntraveller);

FlightsDao flightsDao = new FlightsDao();

List<Flight\_Details> flightlist = flightsDao.getSerachedFlights(from, to, date);

session.setAttribute("flightlist", flightlist);

System.out.println(flightlist);

response.sendRedirect("userDetails.jsp");

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

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

// TODO Auto-generated method stub

doGet(request, response);

}

}

**5.userAdding.java**

package com.simplilearn.flight.web;

import java.io.IOException;

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.simplilear.flight.model.UserDetails;

import com.simplilearn.flight.dao.FlightsDao;

/\*\*

\* Servlet implementation class userAdding

\*/

@WebServlet("/userAdding")

public class userAdding extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public userAdding() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

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

// TODO Auto-generated method stub

response.getWriter().append("Served at: ").append(request.getContextPath());

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

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

HttpSession session = request.getSession(false);

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

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

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

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

double unumber = Double.parseDouble(request.getParameter("umobno"));

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

UserDetails fuser = new UserDetails(uname, uemail, unumber, usex, uaddress, upassword);

FlightsDao udao = new FlightsDao();

session.getAttribute("flightlist");

udao.saveUser(fuser);

if(session!=null) {

session.setAttribute("fuser", fuser);

}

response.sendRedirect("flightsAvailable.jsp");

}

}

**6.paymentServlet.java**

package com.simplilearn.flight.web;

import java.io.IOException;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

/\*\*

\* Servlet implementation class paymentServlet

\*/

@WebServlet("/paymentServlet")

public class paymentServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public paymentServlet() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

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

// TODO Auto-generated method stub

HttpSession session = request.getSession(false);

float fprice = Float.parseFloat(request.getParameter("price"));

int ntraveller = Integer.parseInt((String) session.getAttribute("ftraveller"));

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

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

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

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

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

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

int fid = Integer.parseInt(request.getParameter("id"));

session.setAttribute("bfname", name);

session.setAttribute("bfto", to);

session.setAttribute("bffrom", from);

session.setAttribute("bfdate", date);

session.setAttribute("bftime", time);

float finalPay = fprice \* ntraveller;

session.setAttribute("bfpay", finalPay);

RequestDispatcher dispatcher = request.getRequestDispatcher("payment.jsp");

dispatcher.forward(request, response);

}

}

**7.BookingAdd.java**

package com.simplilearn.flight.web;

import java.io.IOException;

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.simplilear.flight.model.BookingInfo;

import com.simplilear.flight.model.UserDetails;

import com.simplilearn.flight.dao.FlightsDao;

/\*\*

\* Servlet implementation class BookingAdd

\*/

@WebServlet("/BookingAdd")

public class BookingAdd extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public BookingAdd() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

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

// TODO Auto-generated method stub

HttpSession session = request.getSession(false);

float bprice = (float) session.getAttribute("bfpay");

String btraveller = (String) session.getAttribute("ftraveller");

UserDetails user = (UserDetails) session.getAttribute("fuser");

BookingInfo book = new BookingInfo(btraveller,bprice, user );

FlightsDao flightsDao = new FlightsDao();

flightsDao.saveBooking(book);

response.sendRedirect("BookingDetails.jsp");

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

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

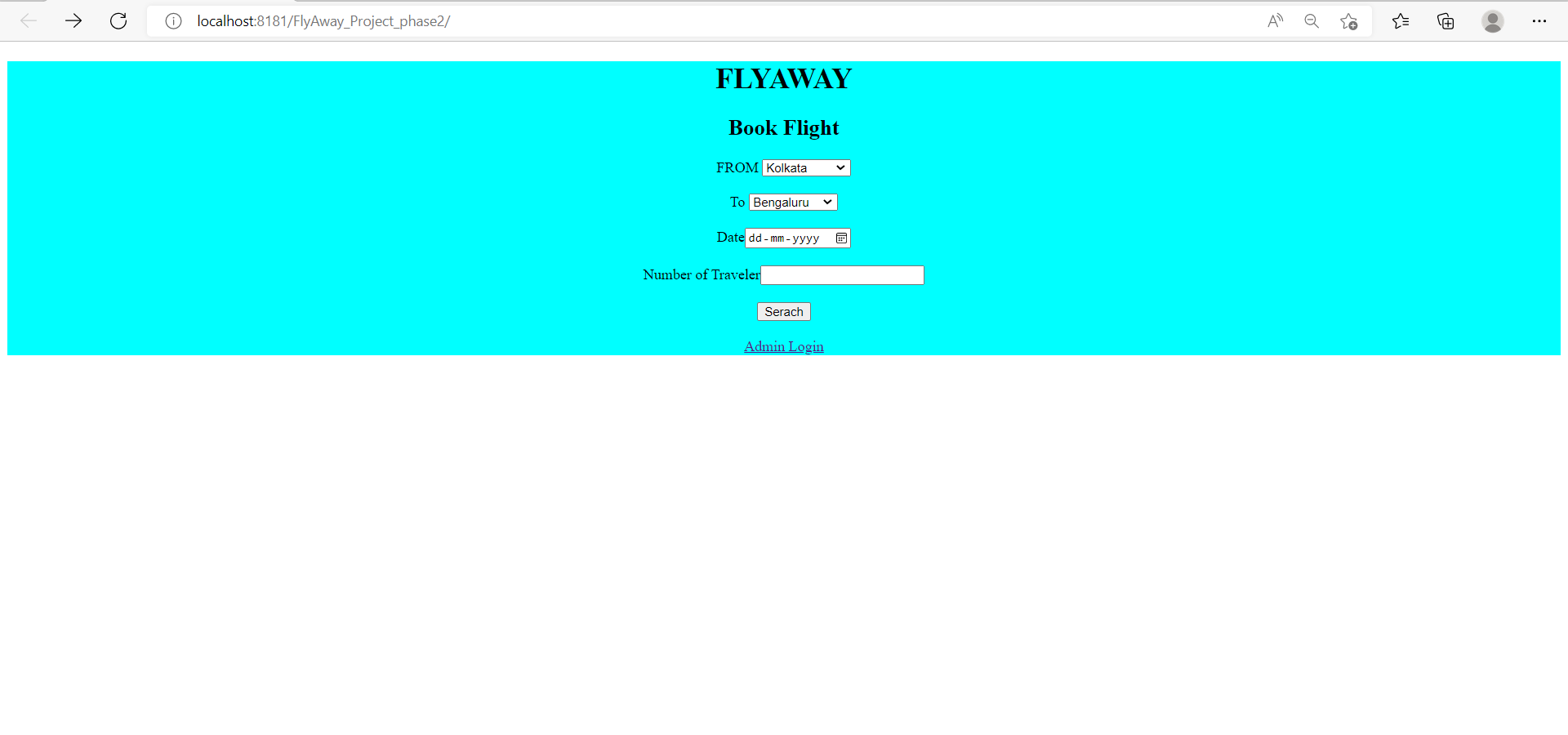
// TODO Auto-generated method stub

doGet(request, response);

}

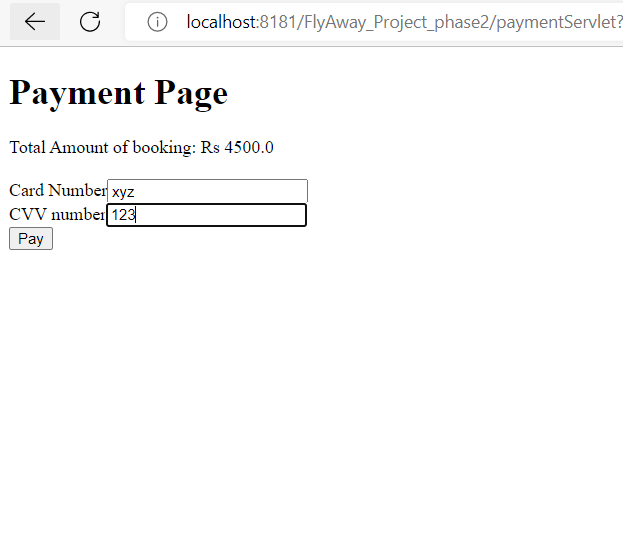
}

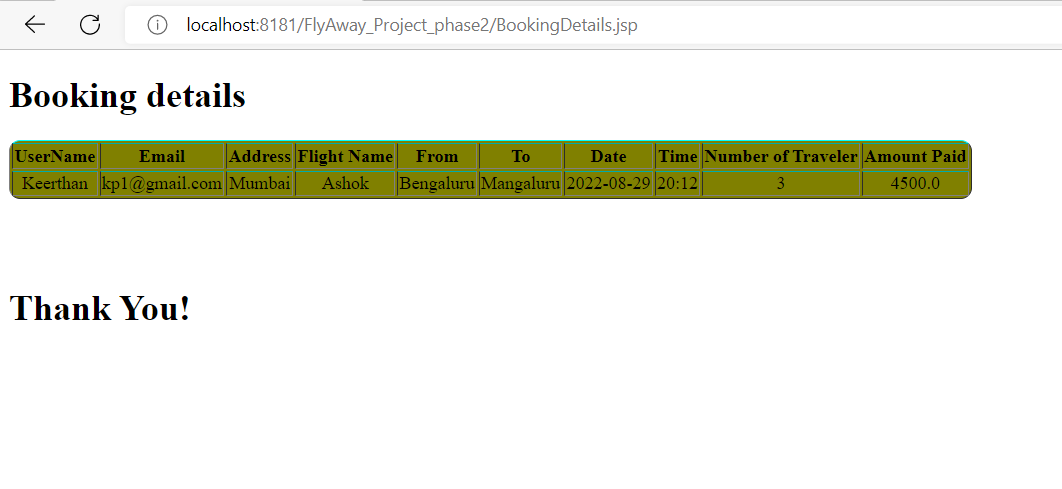
**Screenshots:**

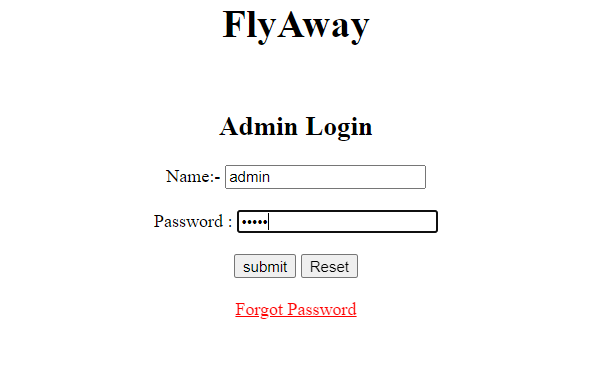


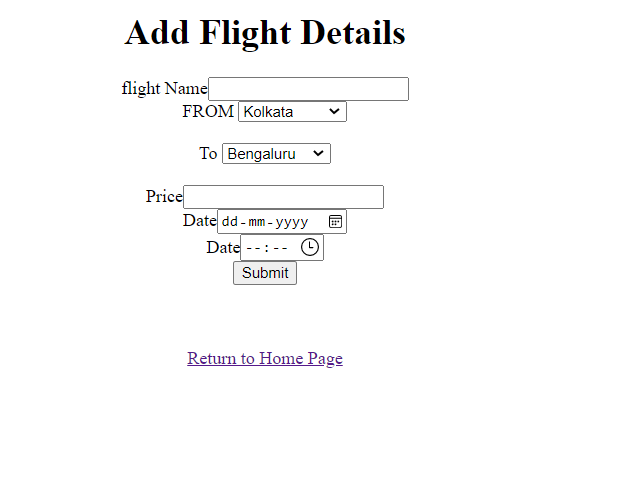


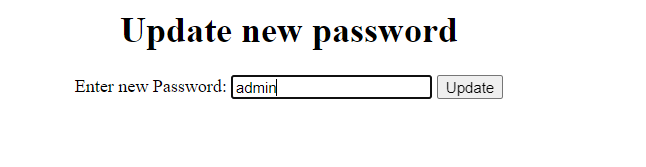












Database Tables Screenshot:

