**FlyAway (An Airline Booking Portal).**

Project 2

DESCRIPTION

**Project objective:**

As a Full Stack Developer, design and develop an airline booking portal named as FlyAway. Use the GitHub repository to manage the project artifacts.

**Background of the problem statement:**

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

**The website needs to have the following 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.

**Source Code:**

//User.java

package entityclasses;

import java.util.Date;

import javax.persistence.Column;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.Table;

import com.util.HibernateSessionUtil;

@Entity

@Table(name = "user\_data")

public class user {

public static boolean usersesion = false;

// properties

@Id

@GeneratedValue(strategy = GenerationType.AUTO)

@Column(name = "id")

private int id;

@Column(name = "name")

private String name;

@Column(name = "password")

private String password;

private double balance;

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getPassword() {

return password;

}

public void setPassword(String password) {

this.password = password;

}

public user() {

}

public user(int id, String name, String password, double balance) {

super();

this.id = id;

this.name = name;

this.balance = balance;

this.password = password;

}

public user(String name, String password, double b) {

this.name = name;

this.password = password;

balance = b;

}

public double getBalance() {

return balance;

}

public void setBalance(double balance) {

this.balance = balance;

}

}

//admin.java

package entityclasses;

import javax.persistence.Column;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

public class admin {

private String name;

private String password;

@Id

@GeneratedValue(strategy = GenerationType.AUTO)

@Column(name = "id")

private int id;

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public admin(String name, String password) {

super();

this.name = name;

this.password = password;

}

public admin() {

super();

// TODO Auto-generated constructor stub

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getPassword() {

return password;

}

public void setPassword(String password) {

this.password = password;

}

}

//places.java

package entityclasses;

import javax.persistence.Column;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

public class places {

private String source;

private String destination;

@Id

@GeneratedValue(strategy = GenerationType.AUTO)

@Column(name = "id")

private int id;

public int getId() {

return id;

}

public String getSource() {

return source;

}

public void setSource(String source) {

this.source = source;

}

public String getDestination() {

return destination;

}

public void setDestination(String destination) {

this.destination = destination;

}

public void setId(int id) {

this.id = id;

}

public places() {

super();

// TODO Auto-generated constructor stub

}

public places(String source, String destination, int id) {

super();

this.source = source;

this.destination = destination;

this.id = id;

}

public places(String source, String destination) {

super();

this.source = source;

this.destination = destination;

}

}

//flight.java

package entityclasses;

import java.util.Set;

import javax.persistence.CascadeType;

import javax.persistence.Column;

import javax.persistence.Entity;

import javax.persistence.FetchType;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.OneToMany;

import javax.persistence.OneToOne;

import javax.persistence.Table;

public class flight {

private double price;

@Id

@GeneratedValue(strategy=GenerationType.AUTO)

@Column(name="id")

private int id;

public flight() {

super();

// TODO Auto-generated constructor stub

}

private String source;

private String destination;

private String airline;

private String availabledays;

public String getAvailabledays() {

return availabledays;

}

public void setAvailabledays(String availabledays) {

this.availabledays = availabledays;

}

public flight(double price, int id, String source, String destination, String airline) {

super();

this.price = price;

this.id = id;

this.source = source;

this.destination = destination;

this.airline = airline;

}

public flight(String source, String destination, String airline,double price,String availabledays) {

super();

this.price = price;

this.source = source;

this.destination = destination;

this.airline = airline;

this.availabledays=availabledays;

}

public String getAirline() {

return airline;

}

public void setAirline(String airline) {

this.airline = airline;

}

public double getPrice() {

return price;

}

public void setPrice(double price) {

this.price = price;

}

public String getSource() {

return source;

}

public void setSource(String source) {

this.source = source;

}

public String getDestination() {

return destination;

}

public void setDestination(String destination) {

this.destination = destination;

}

public void setId(int id) {

this.id = id;

}

public int getId() {

return id;

}

}

//addflights.java

**package** com.adminlogin;

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

**import** javax.servlet.http.HttpServlet;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

**import** javax.servlet.http.HttpSession;

**import** org.hibernate.Session;

**import** org.hibernate.SessionFactory;

**import** org.hibernate.Transaction;

**import** com.util.HibernateSessionUtil;

**import** entityclasses.\*;

@WebServlet("/addflightdata")

**public** **class** addflights **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**protected** **void** service(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

HttpSession s = request.getSession(**false**);

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

// fetch data from form

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

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

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

**double** price = Double.*parseDouble*(request.getParameter("price"));

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

**try** {

// 1. build hibernate session factory

SessionFactory factory = HibernateSessionUtil.*buildSessionFactory*();

// 2. create session object

Session session = factory.openSession();

// 3. create a object with 5000 as default balance of wallet

flight obj = **new** flight(source, destination, airline, price, availabledays);

// 4. begin transaction

Transaction tx = session.beginTransaction();

// 5. save product

session.save(obj);

// 6. commit transaction

tx.commit();

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

request.getRequestDispatcher("optionsadmin.html").include(request, response);

out.print("<h3 style='color:green'> Flight added sucessfully </h3>");

}

// 3. close session

session.close();

} **catch** (Exception e) {

out.print("<h3 style='color:red'>Addition failed ! </h3>");

}

} **else**

out.print("<h2>Problem with session, please re-login</h2>");

}

}

**addplaces.java**

**package** com.adminlogin;

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

**import** javax.servlet.http.HttpServlet;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

**import** javax.servlet.http.HttpSession;

**import** org.hibernate.Session;

**import** org.hibernate.SessionFactory;

**import** org.hibernate.Transaction;

**import** com.util.HibernateSessionUtil;

**import** entityclasses.\*;

@WebServlet("/places")

**public** **class** addplaces **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**protected** **void** service(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

HttpSession s = request.getSession(**false**);

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

// fetch data from form

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

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

**try** {

// 1. build hibernate session factory

SessionFactory factory = HibernateSessionUtil.*buildSessionFactory*();

// 2. create session object

Session session = factory.openSession();

// 3. create a object with 5000 as default balance of wallet

places obj = **new** places(source, destination);

// 4. begin transaction

Transaction tx = session.beginTransaction();

// 5. save product

session.save(obj);

// 6. commit transaction

tx.commit();

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

request.getRequestDispatcher("optionsadmin.html").include(request, response);

out.print("<h3 style='color:green'> Source and Destination added sucessfully </h3>");

}

// 3. close session

session.close();

} **catch** (Exception e) {

out.print("<h3 style='color:red'>Addition failed ! </h3>");

}

} **else**

out.print("<h2>Problem with session, please re-login</h2>");

}

}

**adminlogin.java**

**package** com.adminlogin;

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

**import** javax.servlet.http.HttpServlet;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** java.util.List;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

**import** javax.servlet.http.HttpSession;

**import** org.hibernate.Session;

**import** org.hibernate.SessionFactory;

**import** org.hibernate.Transaction;

**import** com.util.HibernateSessionUtil;

**import** entityclasses.\*;

@WebServlet("/loginadmin")

**public** **class** adminlogin **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**protected** **void** service(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

// add top nav

request.getRequestDispatcher("index.jsp").include(request, response);

// fetch data from form

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

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

**try** {

// 1. build hibernate session factory

SessionFactory factory = HibernateSessionUtil.*buildSessionFactory*();

// 2. create session object

Session session = factory.openSession();

**int** f = 0;

List<admin> obj = session.createQuery("from admin").list();

**for** (admin i : obj) {

String x = i.getName();

String y = i.getPassword();

**if** (x.equals(username) && y.equals(password)) {

// response.sendRedirect("bookflight.html");

f = 1;

}

}

**if** (f == 1) {

session.close();

HttpSession s = request.getSession();

user.*usersesion* = **true**;

response.sendRedirect("optionsadmin.html");

} **else** {

out.print("<h3 style='color:red'> Login failed ! </h3>");

}

} **catch** (Exception e) {

e.printStackTrace();

}

}

}

**adminlogout.java**

**package** com.adminlogin;

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

**import** javax.servlet.http.HttpServlet;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

**import** javax.servlet.http.HttpSession;

**import** entityclasses.\*;

@WebServlet("/logoutadmin")

**public** **class** adminlogout **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**protected** **void** service(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

**try** {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

user.*usersesion* = **false**;

HttpSession s = request.getSession(**false**);

s.invalidate();

response.sendRedirect("logoutmessage.html");

} **catch** (Exception e) {

e.printStackTrace();

}

}

}

**changepassword.java**

**package** com.adminlogin;

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

**import** javax.servlet.http.HttpServlet;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

**import** javax.servlet.http.HttpSession;

**import** org.hibernate.Session;

**import** org.hibernate.SessionFactory;

**import** org.hibernate.Transaction;

**import** com.util.HibernateSessionUtil;

**import** entityclasses.\*;

@WebServlet("/changePassword")

**public** **class** changePassword **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

**try** {

HttpSession s = request.getSession(**false**);

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

// fetch data from form

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

// 1. build hibernate session factory

SessionFactory factory = HibernateSessionUtil.*buildSessionFactory*();

// 2. create session object

Session session = factory.openSession();

// 3. create a product object

admin obj = **new** admin("admin", password);

// 4. begin transaction

Transaction tx = session.beginTransaction();

// 5. update product

session.update(obj);

// 6. commit transaction

tx.commit();

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

out.print("<h3 style='color:green'> Password is updated sucessfully ! </h3>");

}

// 3. close session

session.close();

}

} **catch** (Exception e) {

out.print("<h3 style='color:red'> Hibernate session is failed ! </h3>");

}

}

}

**viewairlines.java**

package com.adminlogin;

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 org.hibernate.Session;

import org.hibernate.SessionFactory;

import com.util.HibernateSessionUtil;

import entityclasses.\*;

@WebServlet("/viewairlines")

public class viewairlines extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void service(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

request.getRequestDispatcher("optionsadmin.html").include(request, response);

try {

// 1. build hibernate session factory

SessionFactory factory = HibernateSessionUtil.buildSessionFactory();

// 2. create session object

Session session = factory.openSession();

// 3. read products

List<flight> obj = session.createQuery("from flight").list();

// show data as table.

out.print("<h4 style='text-align:center;'>Registerd Airlines:- </h4>");

out.print("<style> table,td,th {" + "border:2px solid red;text-align:center;" + "padding: 10px; "

+ "}</style>");

out.print("<center><table >");

out.print("<tr>");

out.print("<th> ID</th>");

out.print("<th> Airline Name</th>");

out.print("</tr>");

for (flight p : obj) {

out.print("<tr>");

out.print("<td>" + p.getId() + "</td>");

out.print("<td>" + p.getAirline() + "</td>");

out.print("</tr>");

}

out.print("</table></center>");

// 3. close session

session.close();

} catch (Exception e) {

out.print("<h3 style='color:red'> Hibernate session is failed ! " + e + "</h3>");

}

}

}

**viewplaces.java**

package com.adminlogin;

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 org.hibernate.Session;

import org.hibernate.SessionFactory;

import com.util.HibernateSessionUtil;

import entityclasses.\*;

@WebServlet("/viewplaces")

public class viewplaces extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void service(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

request.getRequestDispatcher("optionsadmin.html").include(request, response);

try {

// 1. build hibernate session factory

SessionFactory factory = HibernateSessionUtil.buildSessionFactory();

// 2. create session object

Session session = factory.openSession();

// 3. read products

List<flight> obj = session.createQuery("from flight").list();

// show data as table.

out.print("<center><h1> List of places registered as Sources and Destinations :- </h1></center>");

out.print("<style> table,td,th {" + "border:2px solid red;" + "padding: 10px; " + "}</style>");

out.print("<center><table>");

out.print("<tr>");

out.print("<th> ID</th>");

out.print("<th> Source Place</th>");

out.print("<th> Destination Place</th>");

out.print("</tr>");

for (flight p : obj) {

out.print("<tr>");

out.print("<td>" + p.getId() + "</td>");

out.print("<td>" + p.getSource() + "</td>");

out.print("<td>" + p.getDestination() + "</td>");

out.print("</tr>");

}

out.print("</table></center>");

// 3. close session

session.close();

} catch (Exception e) {

out.print("<h3 style='color:red'> Hibernate session is failed ! " + e + "</h3>");

}

}

}

availableflights.java

package com.userlogin;

import java.io.IOException;

import java.io.PrintWriter;

import java.text.DateFormat;

import java.text.Format;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.ArrayList;

import java.util.Calendar;

import java.util.Date;

import java.util.List;

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;

import org.hibernate.Session;

import org.hibernate.SessionFactory;

import com.util.HibernateSessionUtil;

import entityclasses.\*;

@WebServlet("/availableflights")

public class availableflights extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void service(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

request.getRequestDispatcher("options.html").include(request, response);

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

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

String userdate = request.getParameter("dateoftravel");

String no\_of\_people = request.getParameter("numberofpersons");

// my logic to check date is which day

SimpleDateFormat format1 = new SimpleDateFormat("dd/MM/yyyy");

Date dt1;

HttpSession ss = request.getSession(false);

if (ss != null) {

try {

dt1 = format1.parse(userdate);

DateFormat format2 = new SimpleDateFormat("EEEE");

String str = format2.format(dt1);

try {

// 1. build hibernate session factory

SessionFactory factory = HibernateSessionUtil.buildSessionFactory();

// 2. create session object

Session session = factory.openSession();

// 3. read products

List<flight> obj = session.createQuery("from flight").list();

int flag = 0;

for (flight p : obj) {

// res has days stored on whcih flights are available

// str has the user required day

String[] res = p.getAvailabledays().split("[,]", 0);

for (String myStr : res) {

// check user source destination with flight path along with date availability

if (myStr.equals(str) && p.getSource().equalsIgnoreCase(source)

&& p.getDestination().equalsIgnoreCase(destination))

flag = 1;

}

}

// show data as table.

out.print("<h4 style='text-align:center;'>Available Flights for " + userdate + " :- </h4>");

if (flag == 1) {

flag = 0;

out.print("<style> table,td,th {" + "border:2px solid red;text-align:center;"

+ "padding: 10px; " + "}</style>");

out.print("<center><table >");

out.print("<tr>");

out.print("<th> ID</th>");

out.print("<th> Airline Name</th>");

out.print("<th> Ticket Price</th>");

out.print("</tr>");

int flag2 = 0;

for (flight p : obj) {

String[] res = p.getAvailabledays().split("[,]", 0);

for (String myStr : res) {

if (myStr.equals(str) && p.getSource().equalsIgnoreCase(source)

&& p.getDestination().equalsIgnoreCase(destination)) {

flag2 = 1;

}

}

if (flag2 == 1) {

flag2 = 0;

out.print("<tr>");

out.print("<td>" + p.getId() + "</td>");

out.print("<td>" + p.getAirline() + "</td>");

out.print("<td>" + p.getPrice() + "</td>");

out.print("</tr>");

}

}

out.print("</table></center>");

request.getRequestDispatcher("bookflight.html").include(request, response);

;

response.sendRedirect("bookflight.html");

}

// if flight is unavailable on that day

else {

out.print("<h4 style='color:red'>No Flights for selected date</h4>");

}

// 3. close session

ss.setAttribute("numberofpeople", no\_of\_people);

session.close();

} catch (Exception e) {

out.print("<h3 style='color:red'> Hibernate session is failed ! " + e + "</h3>");

}

} catch (ParseException e1) {

// TODO Auto-generated catch block

e1.printStackTrace();

}

}

}

}

payment.java

**package** com.userlogin;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** java.text.DateFormat;

**import** java.text.Format;

**import** java.text.ParseException;

**import** java.text.SimpleDateFormat;

**import** java.util.ArrayList;

**import** java.util.Calendar;

**import** java.util.Date;

**import** java.util.List;

**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;

**import** org.hibernate.~~Query~~;

**import** org.hibernate.Session;

**import** org.hibernate.SessionFactory;

**import** org.hibernate.Transaction;

**import** org.hibernate.sql.Update;

**import** com.util.HibernateSessionUtil;

**import** entityclasses.\*;

@WebServlet("/payment")

**public** **class** payment **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**protected** **void** service(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

request.getRequestDispatcher("options.html").include(request, response);

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

HttpSession ss = request.getSession(**false**);

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

**try** {

// 1. build hibernate session factory

SessionFactory factory = HibernateSessionUtil.*buildSessionFactory*();

// 2. create session object

Session session = factory.openSession();

// 3. read products

List<user> obj = session.createQuery("from user").list();

List<flight> obj2 = session.createQuery("from flight").list();

**int** flag = 0;

**double** temp = 0.0;

**double** tempf = 0.0;

**for** (user p : obj) {

**if** (p.getPassword().equals(password)) {

// update user balance

**int** val = (Integer) ss.getAttribute("idvalue");

**int** price = Integer.*parseInt*((String) ss.getAttribute("numberofpeople"));

**for** (flight x : obj2) {

**if** (x.getId() == val) {

temp = (**double**) x.getPrice() \* price; // if user has booked tickets for 2 people then

// 2\*ticketprice

}

}

**int** userid = p.getId();

tempf = p.getBalance() - temp;

session.createSQLQuery("UPDATE user\_data" + "SET balance=" + tempf + "WHERE id=" + userid)

.executeUpdate();

// insufficient balance in account

**if** (tempf < 0) {

out.write("<h3 style='color:red')>Insufficient Account Balance !</h3>");

} **else** {

Transaction tx = session.beginTransaction();

~~Query~~<Update> q = session.createQuery("update user set balance=:n where id=:i");

q.~~setParameter~~("n", tempf);

q.~~setParameter~~("i", userid);

**int** status = q.executeUpdate();

tx.commit();

ss.setAttribute("usersid", p.getId());

response.sendRedirect("ticket");

}

}

}

session.close();

} **catch** (Exception e) {

out.print("<h3 style='color:red'> Hibernate session is failed ! " + e + "</h3>");

}

} **else** {

out.write("<h2 style='color:red;'>Please Login</h2>");

}

}

}

registeruser.java

package com.userlogin;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.List;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.Transaction;

import com.util.HibernateSessionUtil;

import entityclasses.\*;

@WebServlet("/registeruser")

public class registeruser extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

request.getRequestDispatcher("index.jsp").include(request, response);

request.getRequestDispatcher("userregister.html").include(request, response);

}

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

// add top nav

request.getRequestDispatcher("index.jsp").include(request, response);

// fetch data from form

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

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

try {

// 1. build hibernate session factory

SessionFactory factory = HibernateSessionUtil.buildSessionFactory();

// 2. create session object

Session session = factory.openSession();

int f = 0;

List<user> obj = session.createQuery("from user").list();

for (user i : obj) {

if (i.getName().equals(username)) {

f = 1;

}

}

if (f == 1) {

out.write("<h4 style'color:red'>User Already Registered. Please Re-Login</h4>");

} else {

// 3. create a object with 5000 as default balance of wallet

user obj1 = new user(username, password, 5000.0);

// 4. begin transaction

Transaction tx = session.beginTransaction();

// 5. save product

session.save(obj1);

// 6. commit transaction

tx.commit();

if (session != null) {

out.print("<h3 style='color:green'> User registered sucessfully, Please Login ! </h3>");

}

}

// 3. close session

session.close();

} catch (Exception e) {

out.print("<h3 style='color:red'> Register session is failed ! </h3>");

}

}

}

ticket.java

package com.userlogin;

import java.io.IOException;

import java.io.PrintWriter;

import java.text.DateFormat;

import java.text.Format;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.ArrayList;

import java.util.Calendar;

import java.util.Date;

import java.util.List;

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;

import org.hibernate.Session;

import org.hibernate.SessionFactory;

import com.util.HibernateSessionUtil;

import entityclasses.\*;

@WebServlet("/ticket")

public class ticket extends HttpServlet{

private static final long serialVersionUID = 1L;

protected void service(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

HttpSession ss=request.getSession(false);

if(ss!=null) {

try {

// 1. build hibernate session factory

SessionFactory factory = HibernateSessionUtil.buildSessionFactory();

// 2. create session object

Session session = factory.openSession();

// 3. read products

List<user> obj = session.createQuery("from user").list();

String n="";

int flag=0;

for(user p : obj) {

if(ss.getAttribute("usersid").equals(p.getId())) {

n=p.getName();

}

}

out.print("<html><body>");

out.print("<center><h1 style=\"color:green\">TICKET CONFIRMED</h1>"

+ "</center>\n" +

" <img style=\"border-radius: 5px 5px 0 0;width:40%;margin-left:250px;\" src=\"https://media.istockphoto.com/photos/airbus-a320-aeroplane-picture-id171264813?k=20&m=171264813&s=612x612&w=0&h=oyM2EKEbauYWxiHH1j0xiHVdKkYLpdXJXnOuRT9P2\_w=\" alt=\"Avatar\">\n" +

" <div style=\"padding: 2px 16px;\">\n");

out.print("<center><h4><b> BOOKED BY - "+n+"</b></h4> \n" +

"<h4><b> BOOKING ID - "+ss.getAttribute("usersid")+"</b></h4>"+

"<h4><b> AIRLINES - "+ss.getAttribute("flightname")+"</b></h4>"+

"<h4 style='color:green;'><b> From - "+ss.getAttribute("sourceplace")+" || To - "+ss.getAttribute("destinationplace")+"</b></h4>"+

" <p>Thank you for choosing us!</p> </center>\n" +

" </div>\n" +

"</div>\n" +

"</center>");

out.print("</body></html>");

session.close();

} catch (Exception e) {

out.print("<h3 style='color:red'> Hibernate session is failed ! "+e+"</h3>");

}

}

}

}

userbooking.java

package com.userlogin;

import java.io.IOException;

import java.io.PrintWriter;

import java.text.DateFormat;

import java.text.Format;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.ArrayList;

import java.util.Calendar;

import java.util.Date;

import java.util.List;

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;

import org.hibernate.Session;

import org.hibernate.SessionFactory;

import com.util.HibernateSessionUtil;

import entityclasses.\*;

@WebServlet("/userbooking")

public class userbooking extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void service(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

request.getRequestDispatcher("options.html").include(request, response);

int flightnumber = Integer.parseInt(request.getParameter("flightnumber"));

HttpSession ss = request.getSession(false);

if (ss != null) {

try {

// 1. build hibernate session factory

SessionFactory factory = HibernateSessionUtil.buildSessionFactory();

// 2. create session object

Session session = factory.openSession();

// 3. read products

List<flight> obj = session.createQuery("from flight").list();

for (flight p : obj) {

if (p.getId() == flightnumber) {

ss.setAttribute("idvalue", p.getId());

ss.setAttribute("flightname", p.getAirline());

ss.setAttribute("sourceplace", p.getSource());

ss.setAttribute("destinationplace", p.getDestination());

response.sendRedirect("payment.html");

}

}

// 3. close session

session.close();

} catch (Exception e1) {

// TODO Auto-generated catch block

e1.printStackTrace();

}

}

}

}

userlogin.java

**package** com.userlogin;

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

**import** javax.servlet.http.HttpServlet;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** java.util.List;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

**import** javax.servlet.http.HttpSession;

**import** org.hibernate.Session;

**import** org.hibernate.SessionFactory;

**import** org.hibernate.Transaction;

**import** com.util.HibernateSessionUtil;

**import** entityclasses.\*;

@WebServlet("/loginuser")

**public** **class** userlogin **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**protected** **void** doGet(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

request.getRequestDispatcher("index.jsp").include(request, response);

request.getRequestDispatcher("userlogin.html").include(request, response);

}

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

// add top nav

request.getRequestDispatcher("index.jsp").include(request, response);

// fetch data from form

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

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

HttpSession ss = request.getSession(**true**);

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

**try** {

// 1. build hibernate session factory

SessionFactory factory = HibernateSessionUtil.*buildSessionFactory*();

// 2. create session object

Session session = factory.openSession();

**int** f = 0;

List<user> obj = session.createQuery("from user").list();

**for** (user i : obj) {

String x = i.getName();

String y = i.getPassword();

**double** s = i.getBalance();

**if** (x.equals(username) && y.equals(password) && s > 0.0) {

// response.sendRedirect("bookflight.html");

f = 1;

}

}

**if** (f == 1) {

session.close();

user.*usersesion* = **true**;

response.sendRedirect("options.html");

} **else** {

out.print("<h3 style='color:red'> Login failed ! </h3>");

}

} **catch** (Exception e) {

e.printStackTrace();

}

}

}

}

userlogout.java

package com.userlogin;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

import entityclasses.\*;

@WebServlet("/logoutuser")

public class userlogout extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void service(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

try {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

user.usersesion=false;

HttpSession s=request.getSession(false);

s.invalidate();

response.sendRedirect("logoutmessage.html");

}

catch (Exception e) {

e.printStackTrace();

}

}

}

//HibernateSessionUtil.java

package com.util;

import org.hibernate.SessionFactory;

import org.hibernate.boot.Metadata;

import org.hibernate.boot.MetadataSources;

import org.hibernate.boot.registry.StandardServiceRegistry;

import org.hibernate.boot.registry.StandardServiceRegistryBuilder;

public class HibernateSessionUtil {

private static SessionFactory factory;

public static SessionFactory buildSessionFactory() {

// load configuration

StandardServiceRegistry ssRegistry = new StandardServiceRegistryBuilder()

.configure("hibernate.cfg.xml").build();

// prepare metadata / mapping

Metadata metadata = new MetadataSources(ssRegistry).getMetadataBuilder().build();

// build session factory

factory = metadata.getSessionFactoryBuilder().build();

return factory;

}

}

//index.jsp

<html>

<title>FlyAway</title>

<link href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"* rel=*"stylesheet"* integrity=*"sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"* crossorigin=*"anonymous"*>

<body>

<nav class=*"navbar navbar-expand-lg navbar-dark bg-primary"*>

<div class=*"container"*>

<a class=*"navbar-brand"* href=*"/FlyAway"*>FlyAway</a>

<button class=*"navbar-toggler"* type=*"button"* data-bs-toggle=*"collapse"* data-bs-target=*"#navbarSupportedContent"* aria-controls=*"navbarSupportedContent"* aria-expanded=*"false"* aria-label=*"Toggle navigation"*>

<span class=*"navbar-toggler-icon"*></span>

</button>

<div class=*"collapse navbar-collapse"* id=*"navbarSupportedContent"* >

<ul class=*"navbar-nav me-auto mb-2 mb-lg-0"*>

</ul>

<form class=*"d-flex"*>

<a class=*"btn btn-success "* href=*"adminlogin.html"* role=*"button"*>Admin Login</a>

</form>

</div>

</div>

</nav>

<section class=*"section-content padding-y"*>

<div class=*"card mx-auto"* style="max-width:*520px*; margin-top:*40px*;" align=*"center"*>

<article class=*"card-body"*>

<header class=*"mb-4"*><h4 class=*"card-title"*>Welcome to FlyAWay</h4></header>

<form method=*"post"* >

<div class=*"form-group"*>

<a href=*"userlogin.html"* type=*"submit"* class=*"btn btn-primary btn-block"*> Login to Book a Flight </a>

</div> <!-- form-group// -->

</form>

</article><!-- card-body.// -->

</div> <!-- card .// -->

<p class=*"text-center mt-4"*>Don't have an account? <a href=*"userregister.html"*>Register</a></p>

<br><br>

</section>

<!-- Option 1: Bootstrap Bundle with Popper -->

<script src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"* integrity=*"sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p"* crossorigin=*"anonymous"*></script>

</body>

</body>

//allcssjs.jsp

<link href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"* rel=*"stylesheet"* integrity=*"sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"* crossorigin=*"anonymous"*>

<!-- Optional JavaScript; choose one of the two! -->

<!-- Option 1: Bootstrap Bundle with Popper -->

<script src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"* integrity=*"sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p"* crossorigin=*"anonymous"*></script>

<!-- Option 2: Separate Popper and Bootstrap JS -->

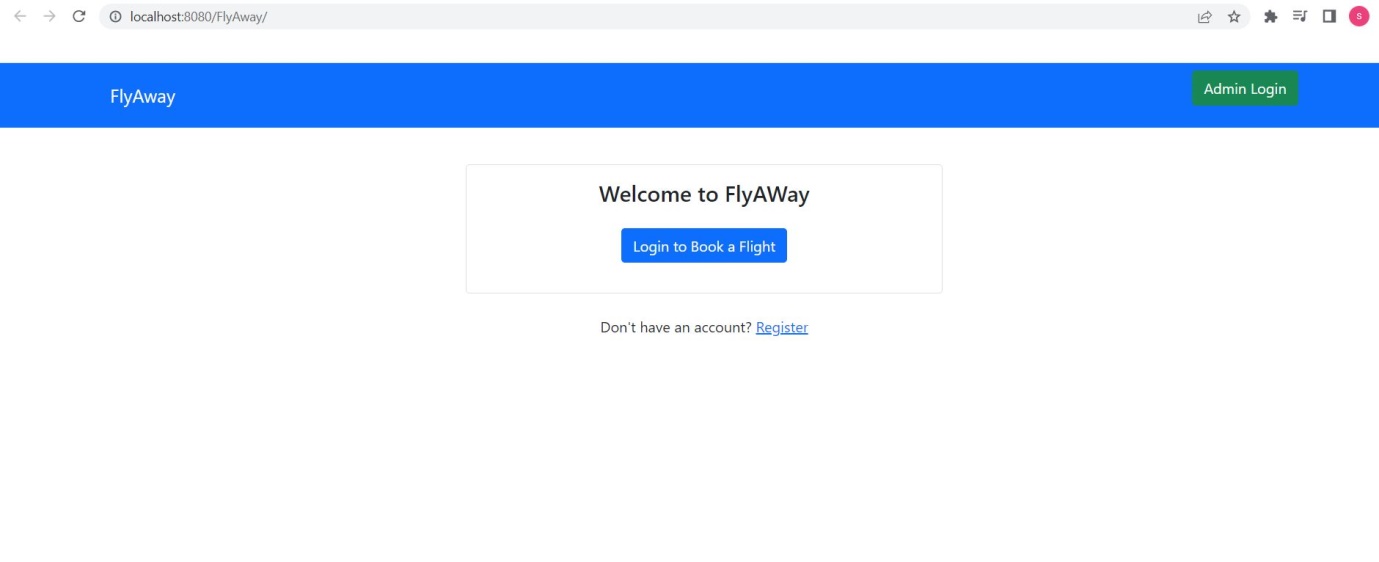
<!--

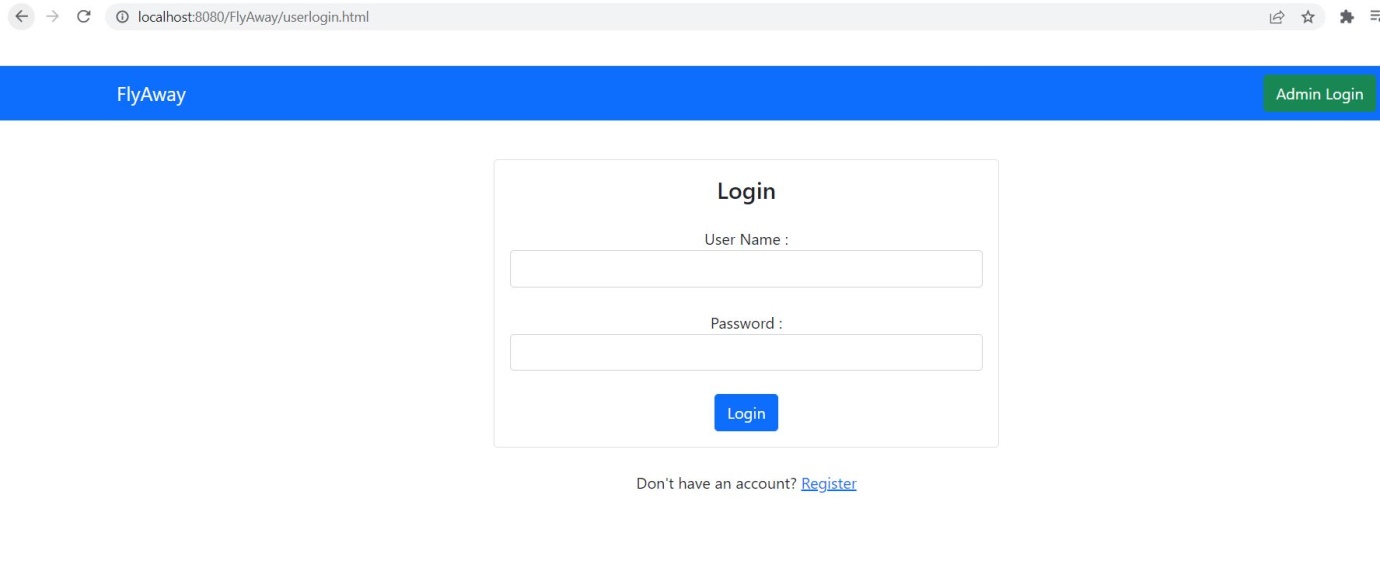
<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.10.2/dist/umd/popper.min.js" integrity="sha384-7+zCNj/IqJ95wo16oMtfsKbZ9ccEh31eOz1HGyDuCQ6wgnyJNSYdrPa03rtR1zdB" crossorigin="anonymous"></script>

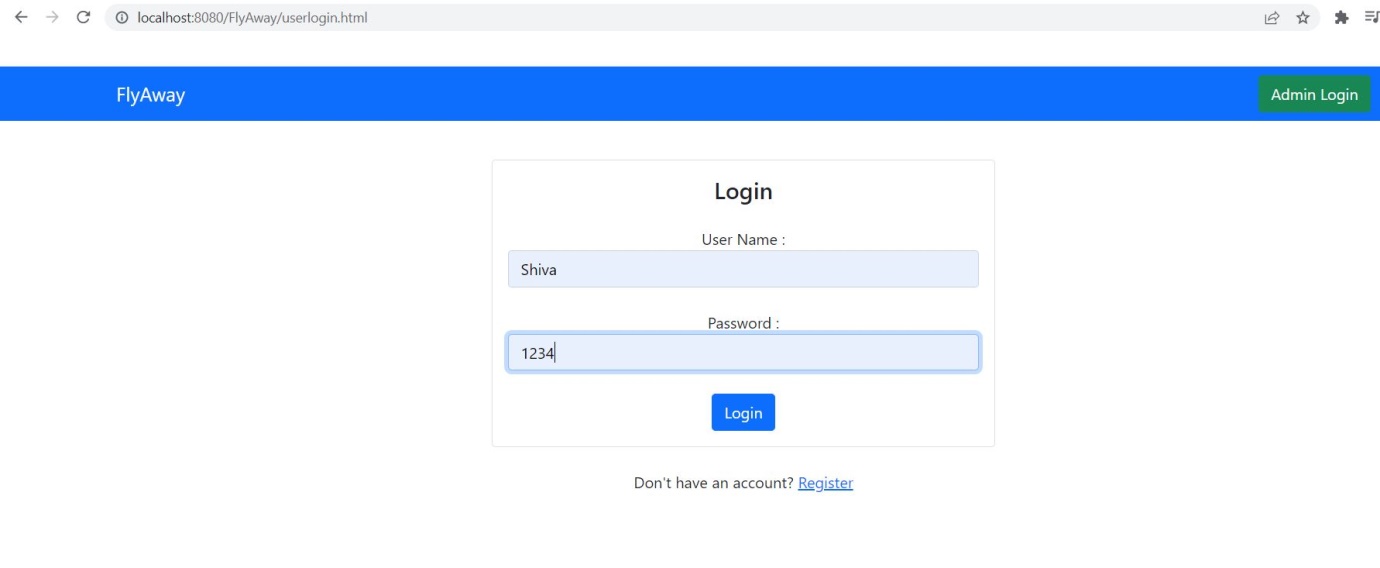
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.min.js" integrity="sha384-QJHtvGhmr9XOIpI6YVutG+2QOK9T+ZnN4kzFN1RtK3zEFEIsxhlmWl5/YESvpZ13" crossorigin="anonymous"></script>

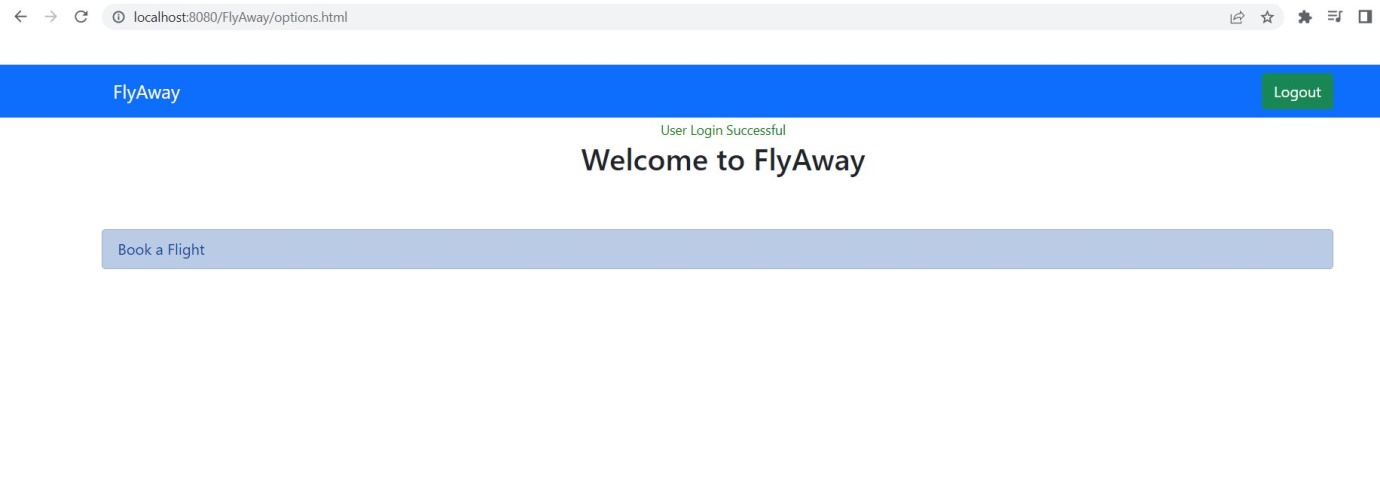
-->

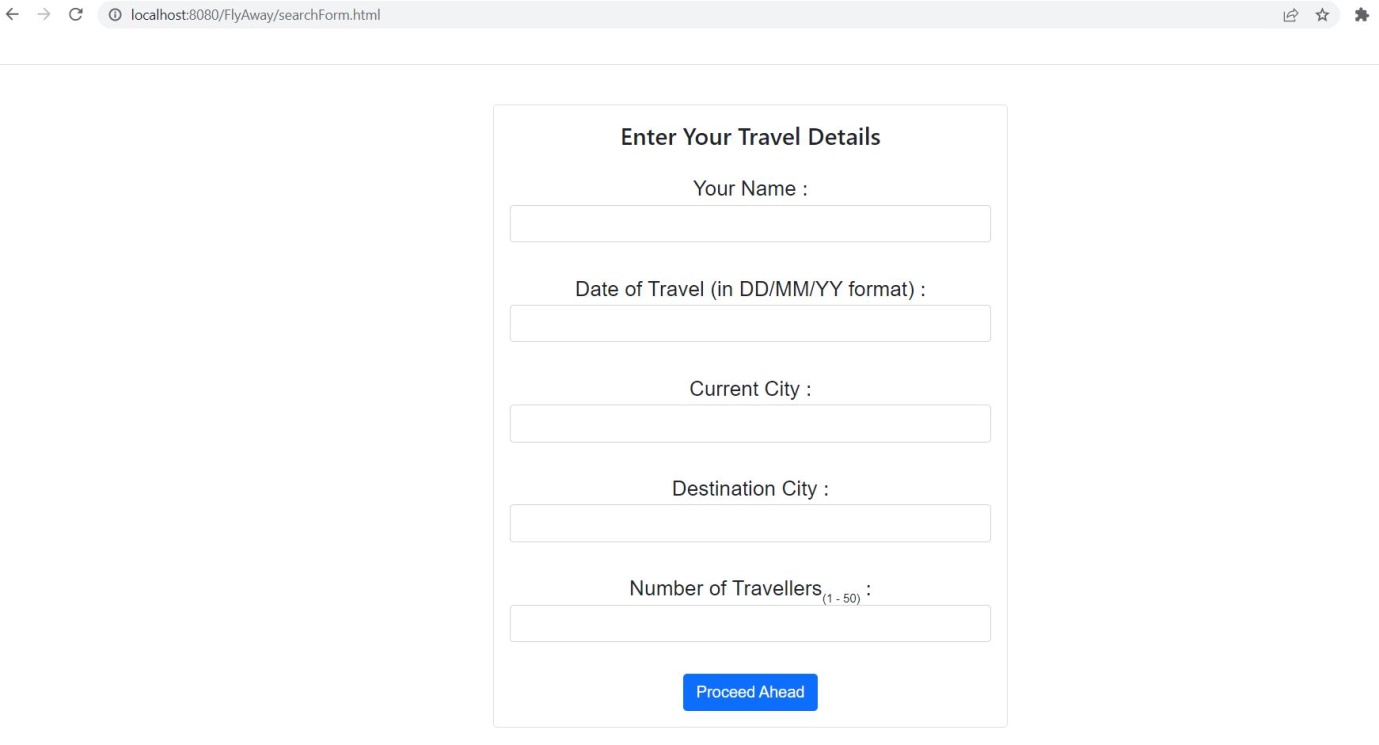
**Output:**

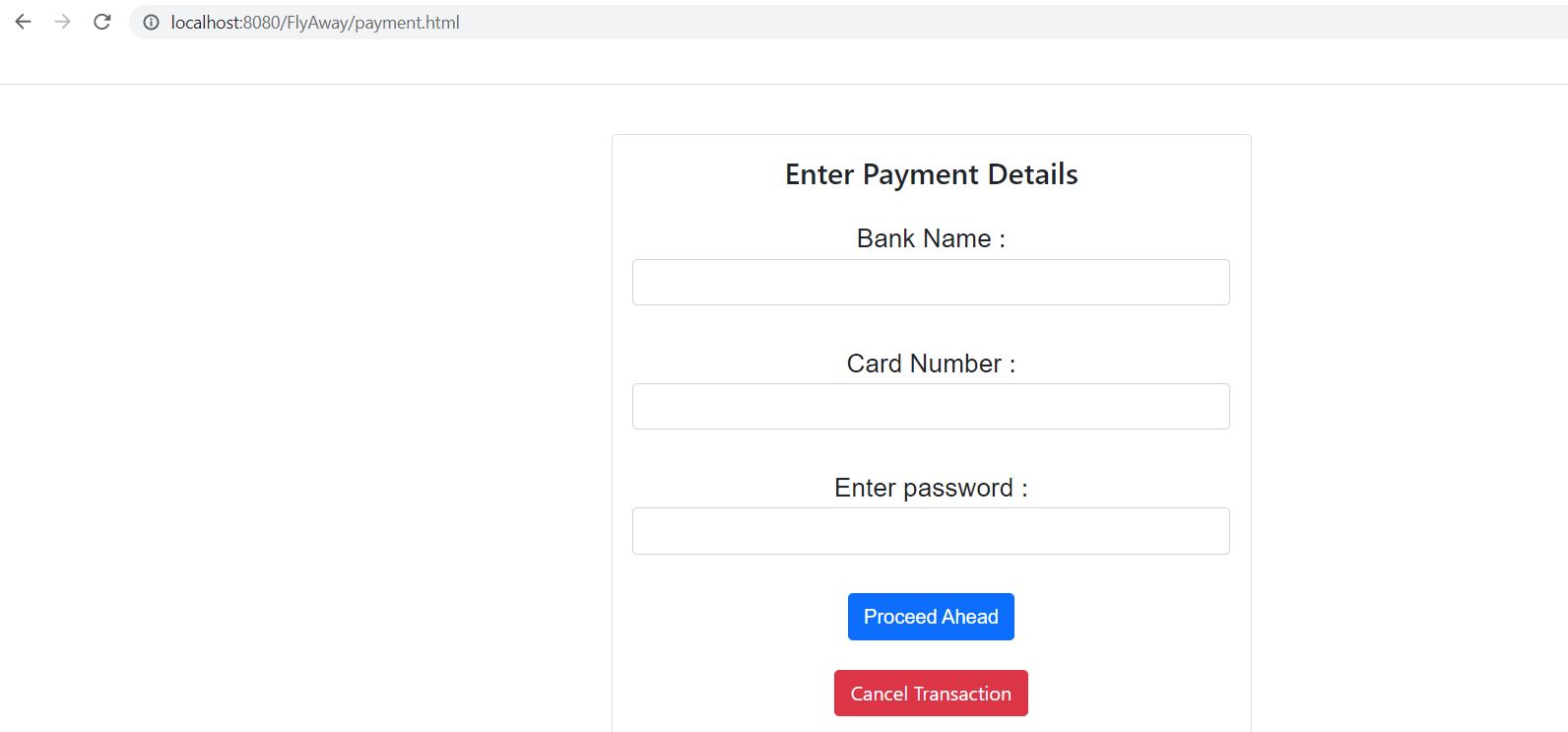
****

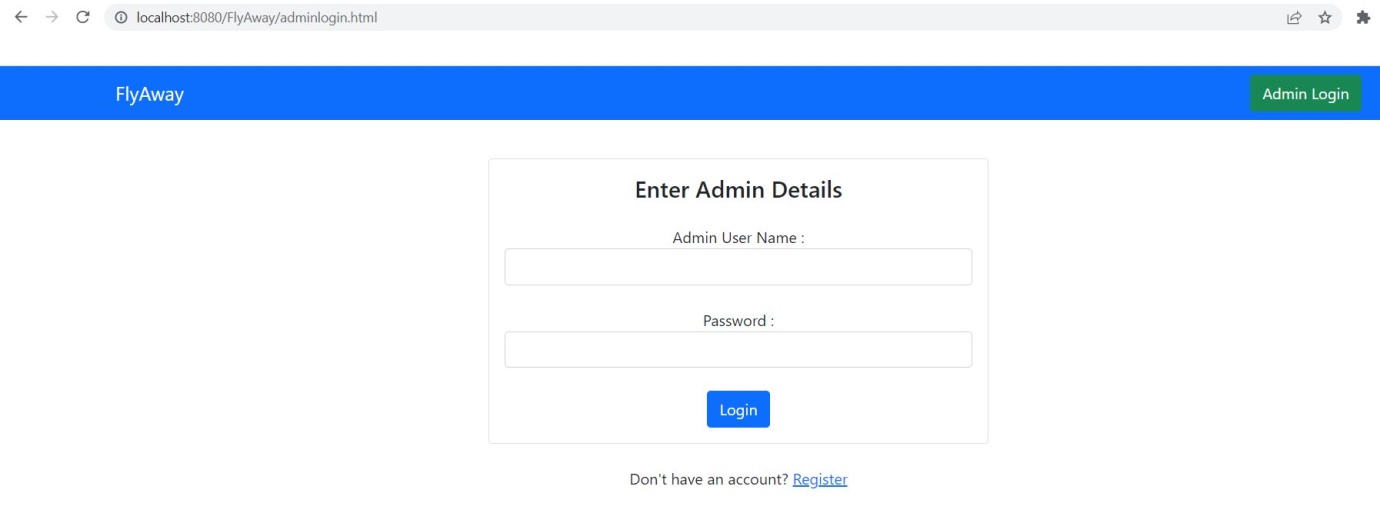
****

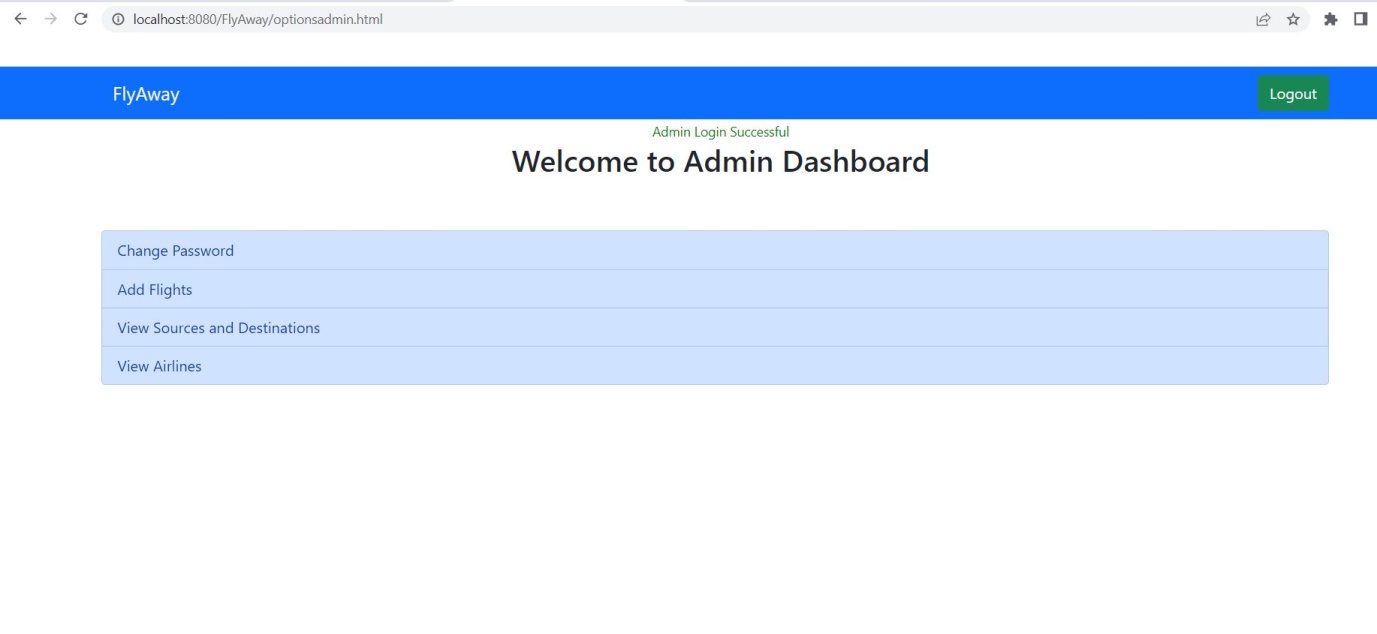
****

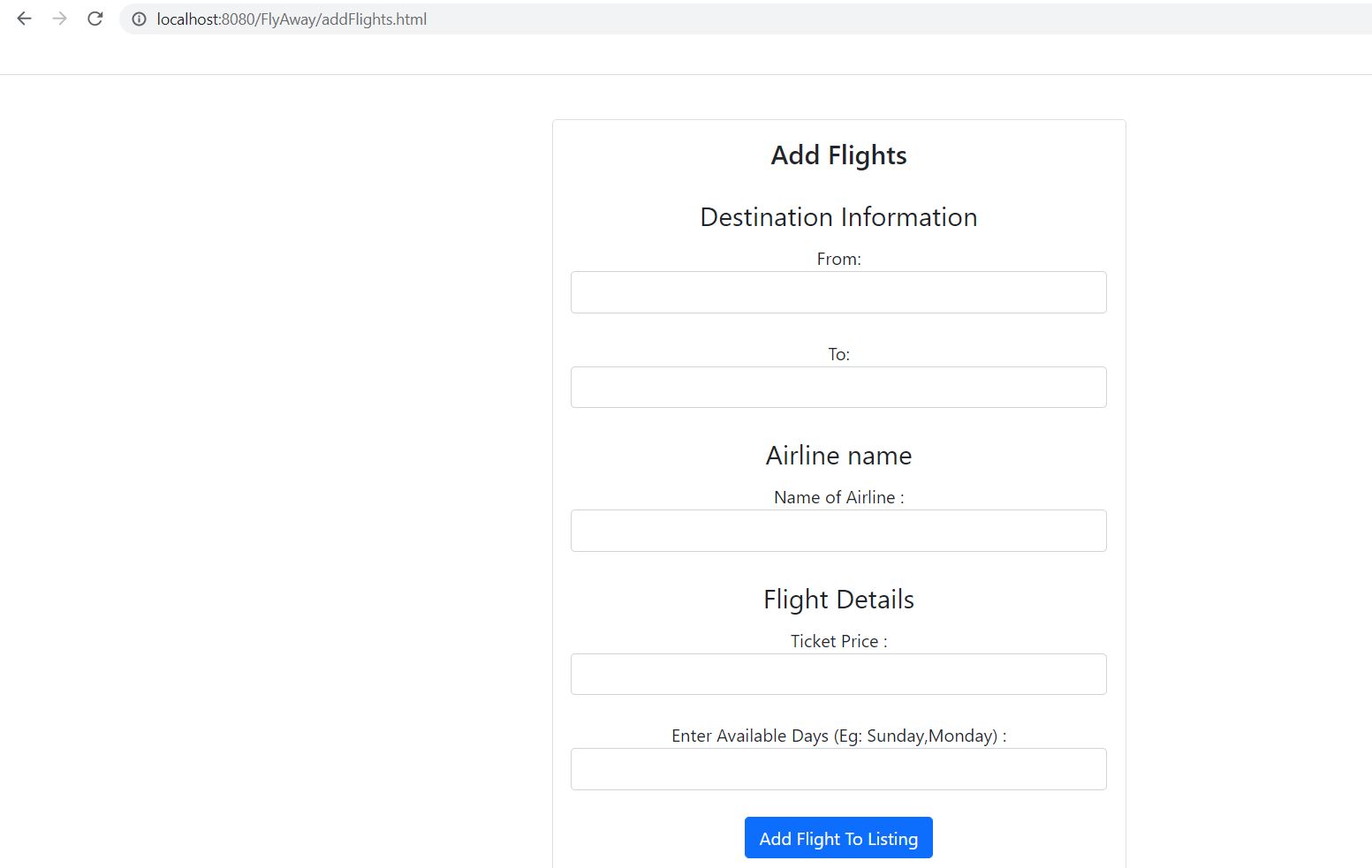
****

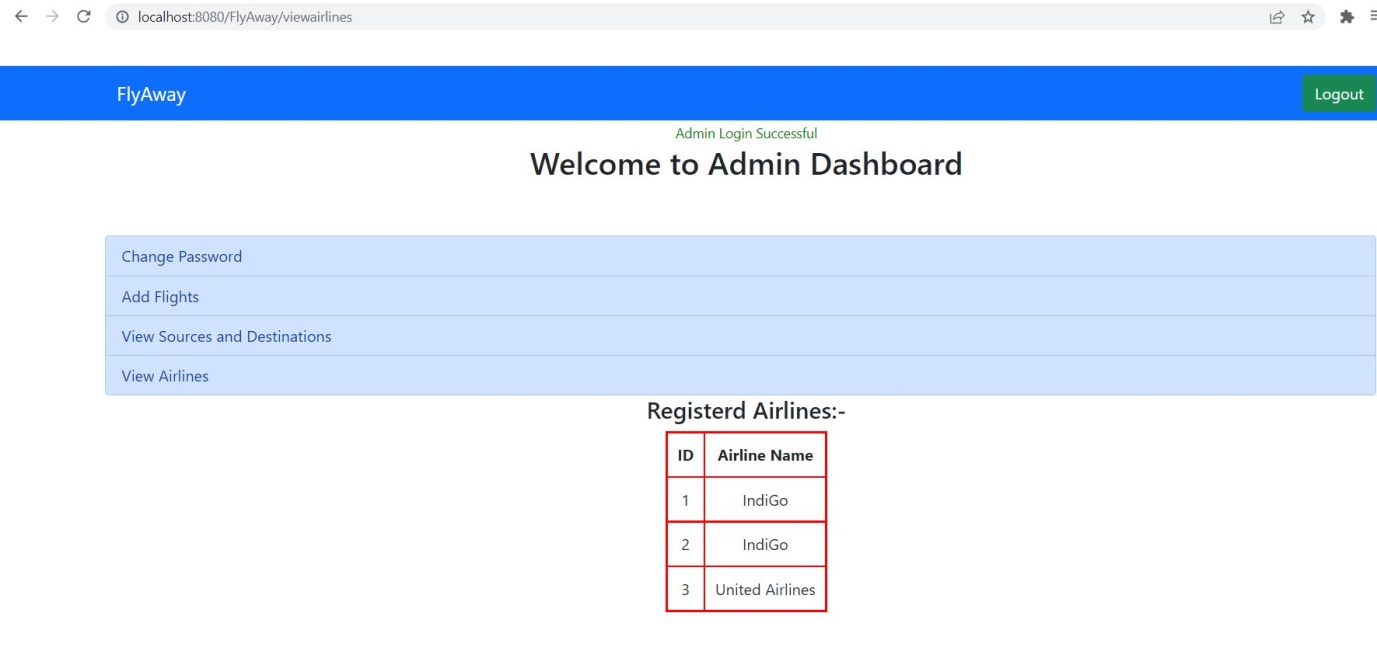
****

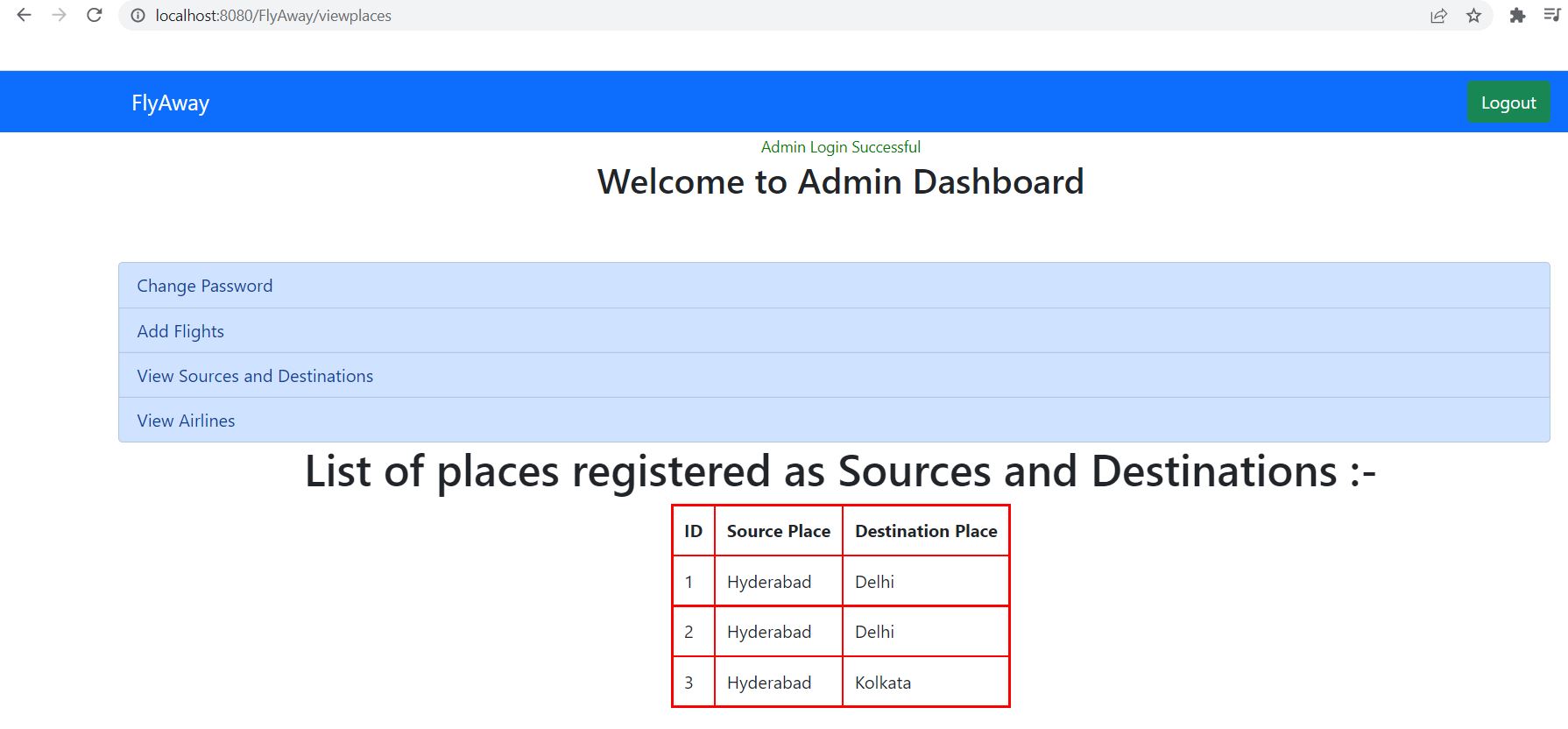
****

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