**FlyAway Project Source Code**

**By Binu Thankachan**

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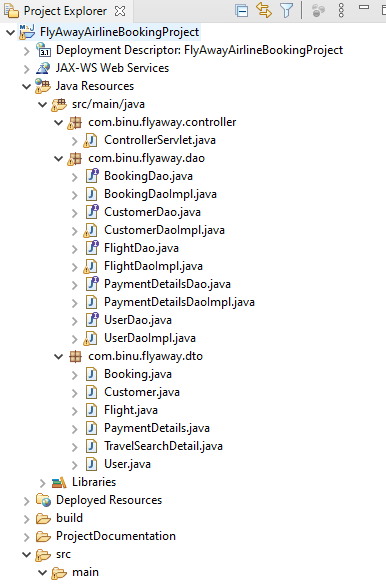
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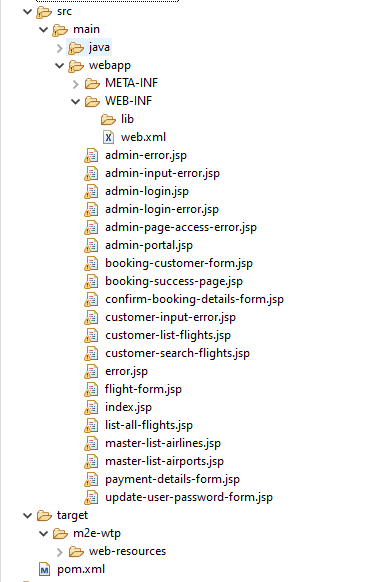
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# Project Hierarchy





# Maven POM file for dependency management

<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>FlyAwayAirlineBookingProject</groupId>

<artifactId>FlyAwayAirlineBookingProject</artifactId>

<version>0.0.1-SNAPSHOT</version>

<packaging>war</packaging>

<name>FlyAwayAirlineBookingProject</name>

<description>FlyAwayAirlineBookingProject</description>

<dependencies>

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>javax.servlet-api</artifactId>

<version>3.1.0</version>

<scope>provided</scope>

</dependency>

<dependency>

<groupId>javax.servlet.jsp</groupId>

<artifactId>javax.servlet.jsp-api</artifactId>

<version>2.3.1</version>

<scope>provided</scope>

</dependency>

<dependency>

<groupId>jstl</groupId>

<artifactId>jstl</artifactId>

<version>1.2</version>

</dependency>

<!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java -->

<dependency>

<groupId>mysql</groupId>

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

<version>8.0.26</version>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

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

<version>3.8.1</version>

<configuration>

<source>1.8</source>

<target>1.8</target>

</configuration>

</plugin>

<plugin>

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

<version>3.2.3</version>

</plugin>

</plugins>

</build>

</project>

# Java classes and interfaces

## Class ControllerServlet.java Source Code

package com.binu.flyaway.controller;

import java.io.IOException;

import java.sql.SQLException;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.HashSet;

import java.util.List;

import java.util.Set;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

import com.binu.flyaway.dao.BookingDao;

import com.binu.flyaway.dao.BookingDaoImpl;

import com.binu.flyaway.dao.CustomerDao;

import com.binu.flyaway.dao.CustomerDaoImpl;

import com.binu.flyaway.dao.FlightDao;

import com.binu.flyaway.dao.FlightDaoImpl;

import com.binu.flyaway.dao.PaymentDetailsDao;

import com.binu.flyaway.dao.PaymentDetailsDaoImpl;

import com.binu.flyaway.dao.UserDao;

import com.binu.flyaway.dao.UserDaoImpl;

import com.binu.flyaway.dto.Booking;

import com.binu.flyaway.dto.Customer;

import com.binu.flyaway.dto.Flight;

import com.binu.flyaway.dto.PaymentDetails;

import com.binu.flyaway.dto.TravelSearchDetail;

import com.binu.flyaway.dto.User;

/\*\*

\* ControllerServlet.java This servlet acts as a page controller for the

\* application, handling all requests from the user.

\*

\*/

//@WebServlet("/ControllerServlet")

public class ControllerServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

private UserDao userDao;

private FlightDao flightDao;

private CustomerDao customerDao;

private PaymentDetailsDao paymentDetailsDao;

private BookingDao bookingDao;

/\*\*

\* Method to initalize database connection fields and instantiate Dao objects used by the controller

\*/

public void init() {

String jdbcURL = getServletContext().getInitParameter("jdbcURL");

String jdbcUsername = getServletContext().getInitParameter("jdbcUsername");

String jdbcPassword = getServletContext().getInitParameter("jdbcPassword");

System.out.println("In ControllerServlet init() jdbcURL= " + jdbcURL);

System.out.println("In ControllerServlet init() jdbcUsername= " + jdbcUsername);

System.out.println("In ControllerServlet init() jdbcPassword= " + jdbcPassword);

userDao = new UserDaoImpl(jdbcURL, jdbcUsername, jdbcPassword);

flightDao = new FlightDaoImpl(jdbcURL, jdbcUsername, jdbcPassword);

customerDao = new CustomerDaoImpl(jdbcURL, jdbcUsername, jdbcPassword);

paymentDetailsDao = new PaymentDetailsDaoImpl(jdbcURL, jdbcUsername, jdbcPassword);

bookingDao = new BookingDaoImpl(jdbcURL, jdbcUsername, jdbcPassword);

}

/\*\*

\* Method to handle Post requests; routes to doGet to do all processing

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

doGet(request, response);

}

/\*\*

\* Method to handle Get requests and handles routinfg of requests to appropriate handler methods

\*/

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

String action = request.getServletPath();

try {

switch (action) {

case "/home":

showCustomerHomePage(request, response);

break;

case "/customerSearchFlights":

showCustomerSearchFlightsForm(request, response);

break;

case "/findFlights":

findFlights(request, response);

break;

case "/displayBookingCustomerForm":

displayBookingCustomerForm(request, response);

break;

case "/addCustomer":

addCustomer(request, response);

break;

case "/addPaymentDetails":

addPaymentDetails(request, response);

break;

case "/bookFlight":

bookFlight(request, response);

break;

case "/adminLogin":

showAdminLoginForm(request, response);

break;

case "/validateAdminLogin":

validateAdminLogin(request, response);

break;

case "/showAdminHome":

showAdminHomePage(request, response);

break;

case "/showUpdateUserPasswordForm":

showUpdateUserPasswordForm(request, response);

break;

case "/updateUserPassword":

updateUserPassword(request, response);

break;

case "/listAllFlightsCustomer":

listFlightsCustomer(request, response);

break;

case "/listAllFlightsAdmin":

listFlightsAdmin(request, response);

break;

case "/new":

showNewForm(request, response);

break;

case "/insert":

insertFlight(request, response);

break;

case "/delete":

deleteFlight(request, response);

break;

case "/edit":

showEditForm(request, response);

break;

case "/update":

updateFlight(request, response);

break;

case "/displayMasterListofAirlinesAdmin":

displayMasterListofAirlinesAdmin(request, response);

break;

case "/displayMasterListofAirportsAdmin":

displayMasterListofAirportsAdmin(request, response);

break;

default:

showCustomerHomePage(request, response);

break;

}

} catch (Exception e) {

e.printStackTrace();

}

}

/\*\*

\* Request handler method to show the landing page for the web app

\*/

private void showCustomerHomePage(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException, SQLException, ParseException {

request.setAttribute("admin\_username", "");

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

dispatcher.forward(request, response);

}

/\*\*

\* Request handler method to display the customer search flights page

\*/

private void showCustomerSearchFlightsForm(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException, SQLException, ParseException {

RequestDispatcher dispatcher = request.getRequestDispatcher("customer-search-flights.jsp");

dispatcher.forward(request, response);

}

/\*\*

\* Request handler method to find flights based off of the user specified search criteria

\*/

private void findFlights(HttpServletRequest request, HttpServletResponse response)

throws SQLException, IOException, ParseException, ServletException {

try {

String sDate1 = request.getParameter("departureDate");

java.util.Date date1 = new SimpleDateFormat("MM/dd/yyyy").parse(sDate1);

// java.util.Date myDate = new

// java.util.Date(flight.getDepartureDate().toString());

java.sql.Date sqlDate = new java.sql.Date(date1.getTime());

java.sql.Date departureDate = sqlDate;

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

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

Integer numberTraveling = Integer.parseInt(request.getParameter("numberTraveling"));

TravelSearchDetail travelSearchDetail = new TravelSearchDetail(source, destination, departureDate,

numberTraveling);

List<Flight> listFlight = flightDao.findFlights(travelSearchDetail);

System.out.println("D1: listflight=" + listFlight);

request.setAttribute("listFlight", listFlight);

RequestDispatcher dispatcher = request.getRequestDispatcher("customer-list-flights.jsp");

dispatcher.forward(request, response);

} catch (Exception e) {

RequestDispatcher dispatcher = request.getRequestDispatcher("customer-input-error.jsp");

dispatcher.forward(request, response);

}

}

/\*\*

\* Request handler method to display the booking process' customer information entry page

\*/

private void displayBookingCustomerForm(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException, SQLException, ParseException {

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

HttpSession session = request.getSession();

session.setAttribute("flightId", flightId);

System.out.println("In ControllerServlet method displayBookingCustomerForm flightId= " + flightId);

RequestDispatcher dispatcher = request.getRequestDispatcher("booking-customer-form.jsp");

dispatcher.forward(request, response);

}

/\*\*

\* Request handler method to handle adding a customer to the customer table in the database

\*/

private void addCustomer(HttpServletRequest request, HttpServletResponse response)

throws SQLException, IOException, ParseException, ServletException {

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

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

String addressLine1 = request.getParameter("addressLine1");

String addressLine2 = request.getParameter("addressLine2");

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

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

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

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

Integer noOfTravelers = Integer.parseInt(request.getParameter("noOfTravelers"));

System.out.println("In addCustomer firstName=" + firstName + " noOfTravelers=" + noOfTravelers);

Customer newCustomer = new Customer(firstName, lastName, addressLine1, addressLine2, city, state, zipCode,

phoneNo, noOfTravelers);

customerDao.addCustomer(newCustomer);

HttpSession session = request.getSession();

session.setAttribute("customer", newCustomer);

session.setAttribute("last\_inserted\_cust\_id", newCustomer.getCustomerId());

System.out.println("In ControllerServlet addCustomer method newCustomer.getCustomerId()=" + newCustomer.getCustomerId());

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

dispatcher.forward(request, response);

}

/\*\*

\* Request handler method to handle adding a payment detail record to the payment\_details table in the database

\*/

private void addPaymentDetails(HttpServletRequest request, HttpServletResponse response)

throws SQLException, IOException, ParseException, ServletException {

Integer paymentType = Integer.parseInt(request.getParameter("paymentType"));

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

Integer cardExpirationMonth = Integer.parseInt(request.getParameter("cardExpirationMonth"));

Integer cardExpirationYear = Integer.parseInt(request.getParameter("cardExpirationYear"));

Integer cardCvvCode = Integer.parseInt(request.getParameter("cardCvvCode"));

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

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

String billingAddressLine1 = request.getParameter("billingAddressLine1");

String billingAddressLine2 = request.getParameter("billingAddressLine2");

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

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

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

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

System.out.println(

"In addPaymentDetails paymentType=" + paymentType + " billingFirstName=" + billingFirstName);

PaymentDetails newPaymentDetails = new PaymentDetails(paymentType, cardNo, cardExpirationMonth,

cardExpirationYear, cardCvvCode, billingFirstName, billingLastName, billingAddressLine1,

billingAddressLine2, billingCity, billingState, billingZipCode, billingPhoneNo);

System.out.println("newPaymentDetails= " + newPaymentDetails);

paymentDetailsDao.addPaymentDetails(newPaymentDetails);

HttpSession session = request.getSession();

session.setAttribute("paymentDetail", newPaymentDetails);

session.setAttribute("last\_inserted\_payment\_id", newPaymentDetails.getPaymentId());

System.out.println("In ControllerServlet addPaymentDetails method newPaymentDetails.getPaymentId()=" + newPaymentDetails.getPaymentId());

RequestDispatcher dispatcher = request.getRequestDispatcher("confirm-booking-details-form.jsp");

dispatcher.forward(request, response);

}

/\*\*

\* Request handler method to handle adding a booking record to the booking table in the database

\*/

private void bookFlight(HttpServletRequest request, HttpServletResponse response)

throws SQLException, IOException, ParseException, ServletException {

HttpSession session = request.getSession();

Integer customerId = (Integer) session.getAttribute("last\_inserted\_cust\_id");

Integer flightId = (Integer) session.getAttribute("flightId");

Integer paymentId = (Integer) session.getAttribute("last\_inserted\_payment\_id");

System.out.println(

"In bookFlight customerId=" + customerId + " flightId=" + flightId + " paymentId=" + paymentId);

Booking newBooking = new Booking(customerId, flightId, paymentId);

bookingDao.addBooking(newBooking);

session.setAttribute("booking", newBooking);

session.setAttribute("last\_inserted\_booking\_id", newBooking.getBookingId());

System.out.println("In ControllerServlet bookFlight method newBooking.getBookingId()=" + newBooking.getBookingId());

RequestDispatcher dispatcher = request.getRequestDispatcher("booking-success-page.jsp");

dispatcher.forward(request, response);

}

/\*\*

\* Request handler method to handle displaying the admin login form

\*/

private void showAdminLoginForm(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException, SQLException, ParseException {

RequestDispatcher dispatcher = request.getRequestDispatcher("admin-login.jsp");

dispatcher.forward(request, response);

}

/\*\*

\* Request handler method to handle validating the admin login form

\*/

private void validateAdminLogin(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException, SQLException, ParseException {

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

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

User user = new User(username, password);

System.out.println("User name: " + user.getUsername());

System.out.println("Password: " + user.getPassword());

boolean isValidAdminUser = userDao.validateAdminUser(user);

System.out.println("In ValidateAdminLogin isValidAdminUser= " + isValidAdminUser);

if (isValidAdminUser) {

// send the user to the admin-portal.jsp page

HttpSession session = request.getSession();

session.setAttribute("userType", "ADMIN");

session.setAttribute("adminUserName", user.getUsername());

response.sendRedirect("admin-portal.jsp");

} else {

HttpSession session = request.getSession();

session.setAttribute("userType", "");

session.setAttribute("adminUserName", "");

// send the user to the admin-login-error.jsp page

response.sendRedirect("admin-login-error.jsp");

}

}

/\*\*

\* Request handler method to handle displaying the admin home page

\*/

private void showAdminHomePage(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException, SQLException, ParseException {

HttpSession session = request.getSession();

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

if (userType != "ADMIN") {

// send the user to an admin page access error page

RequestDispatcher dispatcher = request.getRequestDispatcher("admin-page-access-error.jsp");

dispatcher.forward(request, response);

} else {

RequestDispatcher dispatcher = request.getRequestDispatcher("admin-portal.jsp");

dispatcher.forward(request, response);

}

}

/\*\*

\* Request handler method to handle displaying the update user password page

\*/

private void showUpdateUserPasswordForm(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException, SQLException, ParseException {

HttpSession session = request.getSession();

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

if (userType != "ADMIN") {

// send the user to an admin page access error page

RequestDispatcher dispatcher = request.getRequestDispatcher("admin-page-access-error.jsp");

dispatcher.forward(request, response);

} else {

String username = (String) request.getAttribute("admin\_username");

User user = userDao.findUserByUsername(username);

RequestDispatcher dispatcher = request.getRequestDispatcher("update-user-password-form.jsp");

dispatcher.forward(request, response);

}

}

/\*\*

\* Request handler method to handle displaying the list of all flights for a customer

\*/

private void listFlightsCustomer(HttpServletRequest request, HttpServletResponse response)

throws SQLException, IOException, ServletException, ParseException {

List<Flight> listFlight = flightDao.listAllFlights();

request.setAttribute("listFlight", listFlight);

RequestDispatcher dispatcher = request.getRequestDispatcher("customer-list-flights.jsp");

dispatcher.forward(request, response);

}

/\*\*

\* Request handler method to handle displaying the list of all flights for a admin user

\*/

private void listFlightsAdmin(HttpServletRequest request, HttpServletResponse response)

throws SQLException, IOException, ServletException, ParseException {

HttpSession session = request.getSession();

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

if (userType != "ADMIN") {

// send the user to an admin page access error page

RequestDispatcher dispatcher = request.getRequestDispatcher("admin-page-access-error.jsp");

dispatcher.forward(request, response);

} else {

List<Flight> listFlight = flightDao.listAllFlights();

request.setAttribute("listFlight", listFlight);

RequestDispatcher dispatcher = request.getRequestDispatcher("list-all-flights.jsp");

dispatcher.forward(request, response);

}

}

/\*\*

\* Request handler method to handle displaying the master list of airlines providing available flights for an admin user

\*/

private void displayMasterListofAirlinesAdmin(HttpServletRequest request, HttpServletResponse response)

throws SQLException, IOException, ServletException, ParseException {

HttpSession session = request.getSession();

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

if (userType != "ADMIN") {

// send the user to an admin page access error page

RequestDispatcher dispatcher = request.getRequestDispatcher("admin-page-access-error.jsp");

dispatcher.forward(request, response);

} else {

List<Flight> listFlight = flightDao.listAllFlights();

Set<String> setAirlines = new HashSet<>();

for (Flight flight : listFlight) {

setAirlines.add(flight.getAirline());

}

request.setAttribute("setAirlines", setAirlines);

RequestDispatcher dispatcher = request.getRequestDispatcher("master-list-airlines.jsp");

dispatcher.forward(request, response);

}

}

/\*\*

\* Request handler method to handle displaying the master list of airports used in available flights for an admin user

\*/

private void displayMasterListofAirportsAdmin(HttpServletRequest request, HttpServletResponse response)

throws SQLException, IOException, ServletException, ParseException {

HttpSession session = request.getSession();

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

if (userType != "ADMIN") {

// send the user to an admin page access error page

RequestDispatcher dispatcher = request.getRequestDispatcher("admin-page-access-error.jsp");

dispatcher.forward(request, response);

} else {

List<Flight> listFlight = flightDao.listAllFlights();

Set<String> setAirports = new HashSet<>();

for (Flight flight : listFlight) {

setAirports.add(flight.getSourceAirport());

setAirports.add(flight.getDestinationAirport());

}

request.setAttribute("setAirports", setAirports);

RequestDispatcher dispatcher = request.getRequestDispatcher("master-list-airports.jsp");

dispatcher.forward(request, response);

}

}

/\*\*

\* Request handler method to handle displaying an add flight page for an admin user

\*/

private void showNewForm(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

HttpSession session = request.getSession();

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

if (userType != "ADMIN") {

// send the user to an admin page access error page

RequestDispatcher dispatcher = request.getRequestDispatcher("admin-page-access-error.jsp");

dispatcher.forward(request, response);

} else {

RequestDispatcher dispatcher = request.getRequestDispatcher("flight-form.jsp");

dispatcher.forward(request, response);

}

}

/\*\*

\* Request handler method to handle displaying an edit flight page for an admin user

\*/

private void showEditForm(HttpServletRequest request, HttpServletResponse response)

throws SQLException, ServletException, IOException {

HttpSession session = request.getSession();

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

if (userType != "ADMIN") {

// send the user to an admin page access error page

RequestDispatcher dispatcher = request.getRequestDispatcher("admin-page-access-error.jsp");

dispatcher.forward(request, response);

} else {

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

Flight existingFlight = flightDao.getFlight(id);

RequestDispatcher dispatcher = request.getRequestDispatcher("flight-form.jsp");

request.setAttribute("flight", existingFlight);

dispatcher.forward(request, response);

}

}

/\*\*

\* Request handler method to handle adding a flight for an admin user

\*/

private void insertFlight(HttpServletRequest request, HttpServletResponse response)

throws SQLException, IOException, ParseException, ServletException {

HttpSession session = request.getSession();

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

if (userType != "ADMIN") {

// send the user to an admin page access error page

RequestDispatcher dispatcher = request.getRequestDispatcher("admin-page-access-error.jsp");

dispatcher.forward(request, response);

} else {

try {

String sDate1 = request.getParameter("departureDate");

java.util.Date date1 = new SimpleDateFormat("MM/dd/yyyy").parse(sDate1);

java.util.Date departureDate = date1;

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

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

Double fare = Double.parseDouble(request.getParameter("fare"));

Integer availableSeats = Integer.parseInt(request.getParameter("availableSeats"));

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

Flight newFlight = new Flight(source, destination, departureDate, fare, availableSeats, airline);

flightDao.addFlight(newFlight);

listFlightsAdmin(request, response);

} catch (ParseException e) {

RequestDispatcher dispatcher = request.getRequestDispatcher("admin-input-error.jsp");

dispatcher.forward(request, response);

} catch (Exception e) {

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

dispatcher.forward(request, response);

}

}

}

/\*\*

\* Request handler method to handle updating a flight for an admin user

\*/

private void updateFlight(HttpServletRequest request, HttpServletResponse response)

throws SQLException, IOException, ParseException, ServletException {

HttpSession session = request.getSession();

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

if (userType != "ADMIN") {

// send the user to an admin page access error page

RequestDispatcher dispatcher = request.getRequestDispatcher("admin-page-access-error.jsp");

dispatcher.forward(request, response);

} else {

try {

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

String sDate1 = request.getParameter("departureDate");

java.util.Date date1 = new SimpleDateFormat("MM/dd/yyyy").parse(sDate1);

java.util.Date departureDate = date1;

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

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

Double fare = Double.parseDouble(request.getParameter("fare"));

Integer availableSeats = Integer.parseInt(request.getParameter("availableSeats"));

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

Flight flight = new Flight(id, source, destination, departureDate, fare, availableSeats, airline);

flightDao.updateFlight(flight);

listFlightsAdmin(request, response);

} catch (ParseException e) {

RequestDispatcher dispatcher = request.getRequestDispatcher("admin-input-error.jsp");

dispatcher.forward(request, response);

} catch (Exception e) {

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

dispatcher.forward(request, response);

}

}

}

/\*\*

\* Request handler method to handle updating the password for an admin user

\*/

private void updateUserPassword(HttpServletRequest request, HttpServletResponse response)

throws SQLException, IOException, ParseException, ServletException {

HttpSession session = request.getSession();

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

if (userType != "ADMIN") {

// send the user to an admin page access error page

RequestDispatcher dispatcher = request.getRequestDispatcher("admin-page-access-error.jsp");

dispatcher.forward(request, response);

} else {

String username = (String) session.getAttribute("adminUserName");

if (username == null) {

request.setAttribute("error", "ERROR - Cannot update password. Username is not available.");

// send the user to the admin-error.jsp page

response.sendRedirect("admin-error.jsp");

} else {

String pwd = request.getParameter("adminPwd");

User user = userDao.findUserByUsername(username);

user.setPassword(pwd);

userDao.updateUserPassword(user);

showAdminLoginForm(request, response);

}

}

}

/\*\*

\* Request handler method to handle deleting a flight for an admin user

\*/

private void deleteFlight(HttpServletRequest request, HttpServletResponse response)

throws SQLException, IOException, ServletException, ParseException {

HttpSession session = request.getSession();

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

if (userType != "ADMIN") {

// send the user to an admin page access error page

RequestDispatcher dispatcher = request.getRequestDispatcher("admin-page-access-error.jsp");

dispatcher.forward(request, response);

} else {

try {

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

Flight flight = new Flight(id);

flightDao.deleteFlight(flight);

listFlightsAdmin(request, response);

} catch (Exception e) {

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

dispatcher.forward(request, response);

}

}

}

}

## Interface BookingDao.java Source Code

**package com.binu.flyaway.dao;**

**import java.sql.SQLException;**

**import com.binu.flyaway.dto.Booking;**

**/\*\***

**\* BookingDao.java**

**\* This is the interface representing the available data access methods for the Booking class**

**\***

**\*/**

**public interface BookingDao {**

**void connect() throws SQLException;**

**void disconnect() throws SQLException;**

**boolean addBooking(Booking booking) throws SQLException;**

**}**

## Class BookingDaoImpl.java Source Code

package com.binu.flyaway.dao;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import com.binu.flyaway.dto.Booking;

/\*\*

\* BookingDaoImpl.java

\* This is the class containing CRUD implementations of the data access methods listed in the BookingDao interface

\*

\*/

public class BookingDaoImpl implements BookingDao {

private String jdbcURL;

private String jdbcUsername;

private String jdbcPassword;

private Connection jdbcConnection;

/\*\*

\* Constructor that sets JDBC parameters

\*

\* @param jdbcURL

\* @param jdbcUsername

\* @param jdbcPassword

\*/

public BookingDaoImpl(String jdbcURL, String jdbcUsername, String jdbcPassword) {

super();

this.jdbcURL = jdbcURL;

this.jdbcUsername = jdbcUsername;

this.jdbcPassword = jdbcPassword;

}

/\*\*

\* handles connecting to the database via JDBC

\*/

@Override

public void connect() throws SQLException {

if (jdbcConnection == null || jdbcConnection.isClosed()) {

try {

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

} catch (ClassNotFoundException e) {

throw new SQLException(e);

}

jdbcConnection = DriverManager.getConnection(

jdbcURL, jdbcUsername, jdbcPassword);

}

}

/\*\*

\* handles disconnecting from the database via JDBC

\*/

@Override

public void disconnect() throws SQLException {

if (jdbcConnection != null && !jdbcConnection.isClosed()) {

jdbcConnection.close();

}

}

/\*\*

\* handles adding a booking record to the booking database table using JDBC prepared statement

\*/

@Override

public boolean addBooking(Booking booking) throws SQLException {

String sql = "INSERT INTO booking (customer\_id, flight\_id, payment\_id) VALUES (?, ?, ?)";

connect();

PreparedStatement statement = jdbcConnection.prepareStatement(sql,Statement.RETURN\_GENERATED\_KEYS);

statement.setInt(1, booking.getCustomerId());

statement.setInt(2, booking.getFlightId());

statement.setInt(3, booking.getPaymentId());

boolean rowInserted = statement.executeUpdate() > 0;

// get the id of the record inserted in the database

ResultSet rs = statement.getGeneratedKeys();

int last\_inserted\_id = -1;

if(rs.next())

{

last\_inserted\_id = rs.getInt(1);

}

System.out.println("In BookingDaoImpl addBooking method last\_inserted\_id=" + last\_inserted\_id);

booking.setBookingId(last\_inserted\_id);

statement.close();

disconnect();

return rowInserted;

}

}

## Interface CustomerDao.java Source Code

**package com.binu.flyaway.dao;**

**import java.sql.SQLException;**

**import com.binu.flyaway.dto.Customer;**

**/\*\***

**\* CustomerDao.java**

**\* This is the interface representing the available data access methods for the Customer class**

**\***

**\*/**

**public interface CustomerDao {**

**void connect() throws SQLException;**

**void disconnect() throws SQLException;**

**boolean addCustomer(Customer customer) throws SQLException;**

**}**

## Class CustomerDaoImpl.java Source Code

package com.binu.flyaway.dao;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import com.binu.flyaway.dto.Customer;

/\*\*

\* CustomerDaoImpl.java

\* This is the class containing CRUD implementations of the data access methods listed in the CustomerDao interface

\*

\*/

public class CustomerDaoImpl implements CustomerDao {

private String jdbcURL;

private String jdbcUsername;

private String jdbcPassword;

private Connection jdbcConnection;

/\*\*

\* Constructor that sets JDBC parameters

\*

\* @param jdbcURL

\* @param jdbcUsername

\* @param jdbcPassword

\*/

public CustomerDaoImpl(String jdbcURL, String jdbcUsername, String jdbcPassword) {

super();

this.jdbcURL = jdbcURL;

this.jdbcUsername = jdbcUsername;

this.jdbcPassword = jdbcPassword;

}

/\*\*

\* handles connecting to the database via JDBC

\*/

@Override

public void connect() throws SQLException {

if (jdbcConnection == null || jdbcConnection.isClosed()) {

try {

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

} catch (ClassNotFoundException e) {

throw new SQLException(e);

}

jdbcConnection = DriverManager.getConnection(

jdbcURL, jdbcUsername, jdbcPassword);

}

}

/\*\*

\* handles disconnecting from the database via JDBC

\*/

@Override

public void disconnect() throws SQLException {

if (jdbcConnection != null && !jdbcConnection.isClosed()) {

jdbcConnection.close();

}

}

/\*\*

\* handles adding a customer record to the customer database table using JDBC prepared statement

\*/

@Override

public boolean addCustomer(Customer customer) throws SQLException {

String sql = "INSERT INTO customer (first\_name, last\_name, address\_line\_1, address\_line\_2, city, state, zip\_code, phone\_no, no\_of\_travelers) VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?)";

connect();

PreparedStatement statement = jdbcConnection.prepareStatement(sql,Statement.RETURN\_GENERATED\_KEYS);

statement.setString(1, customer.getFirstName());

statement.setString(2, customer.getLastName());

statement.setString(3, customer.getAddressLine1());

statement.setString(4, customer.getAddressLine2());

statement.setString(5, customer.getCity());

statement.setString(6, customer.getState());

statement.setString(7, customer.getZipCode());

statement.setString(8, customer.getPhoneNo());

statement.setInt(9, customer.getNoOfTravelers());

System.out.println("In AddCustomer() fields customer= " + customer);

boolean rowInserted = statement.executeUpdate() > 0;

// get the id of the record inserted in the database

ResultSet rs = statement.getGeneratedKeys();

int last\_inserted\_id = -1;

if(rs.next())

{

last\_inserted\_id = rs.getInt(1);

}

System.out.println("In CustomerDaoImpl addCustomer method last\_inserted\_id=" + last\_inserted\_id);

customer.setCustomerId(last\_inserted\_id);

statement.close();

disconnect();

return rowInserted;

}

}

## Interface FlightDao.java Source Code

**package com.binu.flyaway.dao;**

**import java.sql.SQLException;**

**import java.text.ParseException;**

**import java.util.List;**

**import com.binu.flyaway.dto.Flight;**

**import com.binu.flyaway.dto.TravelSearchDetail;**

**/\*\***

**\* FlightDao.java**

**\* This is the interface representing the available data access methods for the Flight class**

**\***

**\*/**

**public interface FlightDao {**

**void connect() throws SQLException;**

**void disconnect() throws SQLException;**

**boolean addFlight(Flight flight) throws SQLException;**

**List<Flight> listAllFlights() throws SQLException, ParseException;**

**boolean deleteFlight(Flight flight) throws SQLException;**

**boolean updateFlight(Flight flight) throws SQLException;**

**List<Flight> findFlights(TravelSearchDetail travelSearchDetail) throws SQLException;**

**Flight getFlight(Integer id) throws SQLException;**

**}**

## Class FlightDaoImpl.java Source Code

package com.binu.flyaway.dao;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.ArrayList;

import java.util.List;

import com.binu.flyaway.dto.Flight;

import com.binu.flyaway.dto.TravelSearchDetail;

/\*\*

\* FlightDaoImpl.java

\* This is the class containing CRUD implementations of the data access methods listed in theFlightDao interface

\*

\*/

public class FlightDaoImpl implements FlightDao {

private String jdbcURL;

private String jdbcUsername;

private String jdbcPassword;

private Connection jdbcConnection;

/\*\*

\* Constructor that sets JDBC parameters

\*

\* @param jdbcURL

\* @param jdbcUsername

\* @param jdbcPassword

\*/

public FlightDaoImpl(String jdbcURL, String jdbcUsername, String jdbcPassword) {

super();

this.jdbcURL = jdbcURL;

this.jdbcUsername = jdbcUsername;

this.jdbcPassword = jdbcPassword;

}

/\*\*

\* handles connecting to the database via JDBC

\*/

@Override

public void connect() throws SQLException {

if (jdbcConnection == null || jdbcConnection.isClosed()) {

try {

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

} catch (ClassNotFoundException e) {

throw new SQLException(e);

}

jdbcConnection = DriverManager.getConnection(

jdbcURL, jdbcUsername, jdbcPassword);

}

}

/\*\*

\* handles disconnecting from the database via JDBC

\*/

@Override

public void disconnect() throws SQLException {

if (jdbcConnection != null && !jdbcConnection.isClosed()) {

jdbcConnection.close();

}

}

/\*\*

\* handles adding a flight record to the flight database table using JDBC prepared statement

\*/

@Override

public boolean addFlight(Flight flight) throws SQLException {

String sql = "INSERT INTO flight (source\_airport, dest\_airport, departure\_date, fare, available\_seats, airline\_name) VALUES (?, ?, ?, ?, ?, ?)";

connect();

PreparedStatement statement = jdbcConnection.prepareStatement(sql);

statement.setString(1, flight.getSourceAirport().toUpperCase());

statement.setString(2, flight.getDestinationAirport().toUpperCase());

java.util.Date myDate = new java.util.Date(flight.getDepartureDate().toString());

java.sql.Date sqlDate = new java.sql.Date(myDate.getTime());

statement.setDate(3, sqlDate);

statement.setDouble(4, flight.getFare());

statement.setInt(5, flight.getNumberAvailableSeats());

statement.setString(6, flight.getAirline());

boolean rowInserted = statement.executeUpdate() > 0;

statement.close();

disconnect();

return rowInserted;

}

/\*\*

\* handles returning all flight records in the flight database table using JDBC statement

\*/

@Override

public List<Flight> listAllFlights() throws SQLException, ParseException {

List<Flight> listFlights = new ArrayList<>();

String sql = "SELECT \* FROM flight";

connect();

Statement statement = jdbcConnection.createStatement();

ResultSet resultSet = statement.executeQuery(sql);

while (resultSet.next()) {

int id = resultSet.getInt("id");

String sourceAirport = resultSet.getString("source\_airport");

String destAirport = resultSet.getString("dest\_airport");

String sDate1=resultSet.getDate("departure\_date").toString();

java.util.Date date1=new SimpleDateFormat("yyyy-MM-dd").parse(sDate1);

System.out.println("A1: " + resultSet.getDate("departure\_date"));

System.out.println("A2: " + resultSet.getDate("departure\_date").toString());

java.util.Date myDate =date1;

// java.sql.Date sqlDate = new java.sql.Date(myDate.getTime());

java.util.Date departureDate = date1;

Double fare = resultSet.getDouble("fare");

Integer availableSeats = resultSet.getInt("available\_seats");

String airline = resultSet.getString("airline\_name");

Flight flight = new Flight(id, sourceAirport, destAirport, departureDate, fare, availableSeats,airline);

listFlights.add(flight);

}

resultSet.close();

statement.close();

disconnect();

return listFlights;

}

/\*\*

\* handles deleting a flight from the flight database table using JDBC statement

\*/

@Override

public boolean deleteFlight(Flight flight) throws SQLException {

String sql = "DELETE FROM flight where id = ?";

connect();

PreparedStatement statement = jdbcConnection.prepareStatement(sql);

statement.setInt(1, flight.getId());

boolean rowDeleted = statement.executeUpdate() > 0;

statement.close();

disconnect();

return rowDeleted;

}

/\*\*

\* handles updating a flight record in the flight database table using JDBC statement

\*/

@Override

public boolean updateFlight(Flight flight) throws SQLException {

String sql = "UPDATE flight SET source\_airport = ?, dest\_airport = ?, departure\_date = ?";

sql += " WHERE id = ?";

connect();

PreparedStatement statement = jdbcConnection.prepareStatement(sql);

statement.setString(1, flight.getSourceAirport().toUpperCase());

statement.setString(2, flight.getDestinationAirport().toUpperCase());

java.util.Date myDate = new java.util.Date(flight.getDepartureDate().toString());

java.sql.Date sqlDate = new java.sql.Date(myDate.getTime());

statement.setDate(3, sqlDate);

statement.setInt(4, flight.getId());

boolean rowUpdated = statement.executeUpdate() > 0;

statement.close();

disconnect();

return rowUpdated;

}

/\*\*

\* handles returning all flight records in the flight database table matching a user's search criteria using JDBC statement

\*/

@Override

public List<Flight> findFlights(TravelSearchDetail travelSearchDetail) throws SQLException {

List<Flight> listFlights = new ArrayList<>();

String sql = "SELECT \* FROM flight WHERE source\_airport = ? AND dest\_airport = ? AND departure\_date = ?";

connect();

System.out.println("F7: In FlightDaoImpl travelSearchDetail.getSourceAirport()= " + travelSearchDetail.getSourceAirport());

System.out.println("F7: In FlightDaoImpl travelSearchDetail.getDestinationAirport()= " + travelSearchDetail.getDestinationAirport());

System.out.println("F7: In FlightDaoImpl travelSearchDetail.getDepartureDate()= " + travelSearchDetail.getDepartureDate());

System.out.println("F7: In FlightDaoImpl travelSearchDetail.getNumberTraveling()= " + travelSearchDetail.getNumberTraveling());

PreparedStatement statement = jdbcConnection.prepareStatement(sql);

statement.setString(1, travelSearchDetail.getSourceAirport().toUpperCase());

statement.setString(2, travelSearchDetail.getDestinationAirport().toUpperCase());

statement.setDate(3, travelSearchDetail.getDepartureDate());

// statement.setInt(4, travelSearchDetail.getNumberTraveling());

ResultSet resultSet = statement.executeQuery();

while (resultSet.next()) {

Integer id = resultSet.getInt("id");

String sourceAirport = resultSet.getString("source\_airport");

String destinationAirport = resultSet.getString("dest\_airport");

java.util.Date departureDate = resultSet.getDate("departure\_date");

Double fare = resultSet.getDouble("fare");

Integer availableSeats = resultSet.getInt("available\_seats");

String airline = resultSet.getString("airline\_name");

// only display flights with enough seats to accommodate the customers number of travelers

if (availableSeats >= travelSearchDetail.getNumberTraveling()) {

Flight flight = new Flight(id, sourceAirport, destinationAirport, departureDate,fare,availableSeats,airline);

listFlights.add(flight);

System.out.println("F91: In FlightDaoImpl flight= " + flight);

}

}

resultSet.close();

statement.close();

System.out.println("F99: In FlightDaoImpl listFlights= " + listFlights);

return listFlights;

}

/\*\*

\* handles returning a flight record in the flight database table using JDBC statement

\*/

@Override

public Flight getFlight(Integer id) throws SQLException {

Flight flight = null;

String sql = "SELECT \* FROM flight WHERE id = ?";

connect();

PreparedStatement statement = jdbcConnection.prepareStatement(sql);

statement.setInt(1, id);

ResultSet resultSet = statement.executeQuery();

if (resultSet.next()) {

String sourceAirport = resultSet.getString("source\_airport");

String destinationAirport = resultSet.getString("dest\_airport");

java.util.Date departureDate = resultSet.getDate("departure\_date");

Double fare = resultSet.getDouble("fare");

Integer availableSeats = resultSet.getInt("available\_seats");

String airline = resultSet.getString("airline\_name");

flight = new Flight(id, sourceAirport, destinationAirport, departureDate,fare,availableSeats,airline);

}

resultSet.close();

statement.close();

return flight;

}

}

## Interface PaymentDetailsDao.java Source Code

**package com.binu.flyaway.dao;**

**import java.sql.SQLException;**

**import com.binu.flyaway.dto.PaymentDetails;**

**/\*\***

**\* PaymentDetailsDao.java**

**\* This is the interface representing the available data access methods for the PaymentDetails class**

**\***

**\*/**

**public interface PaymentDetailsDao {**

**void connect() throws SQLException;**

**void disconnect() throws SQLException;**

**boolean addPaymentDetails(PaymentDetails paymentDetails) throws SQLException;**

**}**

## Class PaymentDetailsDaoImpl.java Source Code

package com.binu.flyaway.dao;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import com.binu.flyaway.dto.PaymentDetails;

/\*\*

\* PaymentDetailsDaoImpl.java

\* This is the class containing CRUD implementations of the data access methods listed in the PaymentDetailsDao interface

\*

\*/

public class PaymentDetailsDaoImpl implements PaymentDetailsDao {

private String jdbcURL;

private String jdbcUsername;

private String jdbcPassword;

private Connection jdbcConnection;

/\*\*

\* Constructor that sets JDBC parameters

\*

\* @param jdbcURL

\* @param jdbcUsername

\* @param jdbcPassword

\*/

public PaymentDetailsDaoImpl(String jdbcURL, String jdbcUsername, String jdbcPassword) {

super();

this.jdbcURL = jdbcURL;

this.jdbcUsername = jdbcUsername;

this.jdbcPassword = jdbcPassword;

}

/\*\*

\* handles connecting to the database via JDBC

\*/

@Override

public void connect() throws SQLException {

if (jdbcConnection == null || jdbcConnection.isClosed()) {

try {

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

} catch (ClassNotFoundException e) {

throw new SQLException(e);

}

jdbcConnection = DriverManager.getConnection(

jdbcURL, jdbcUsername, jdbcPassword);

}

}

/\*\*

\* handles disconnecting from the database via JDBC

\*/

@Override

public void disconnect() throws SQLException {

if (jdbcConnection != null && !jdbcConnection.isClosed()) {

jdbcConnection.close();

}

}

/\*\*

\* handles adding a payment details record to the payment\_details database table using JDBC prepared statement

\*/

@Override

public boolean addPaymentDetails(PaymentDetails paymentDetails) throws SQLException {

System.out.println("A1: In addPaymentDetails");

String sql = "INSERT INTO payment\_details (payment\_type, card\_no, card\_exp\_month, card\_exp\_year, card\_cvv\_code, billing\_first\_name,"

+ "billing\_last\_name, billing\_addr\_line1, billing\_addr\_line2, billing\_city, billing\_state, billing\_zip\_code, billing\_phone\_no) "

+ "VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)";

connect();

System.out.println("A2: In addPaymentDetails");

PreparedStatement statement = jdbcConnection.prepareStatement(sql,Statement.RETURN\_GENERATED\_KEYS);

System.out.println("A3: In addPaymentDetails");

statement.setInt(1, paymentDetails.getPaymentType());

statement.setString(2, paymentDetails.getCardNo());

statement.setInt(3, paymentDetails.getCardExpirationMonth());

statement.setInt(4, paymentDetails.getCardExpirationYear());

statement.setInt(5, paymentDetails.getCardCvvCode());

System.out.println("A4: In addPaymentDetails");

statement.setString(6, paymentDetails.getBillingFirstName());

statement.setString(7, paymentDetails.getBillingLastName());

statement.setString(8, paymentDetails.getBillingAddressLine1());

statement.setString(9, paymentDetails.getBillingAddressLine2());

statement.setString(10, paymentDetails.getBillingCity());

statement.setString(11, paymentDetails.getBillingState());

statement.setString(12, paymentDetails.getBillingZipCode());

statement.setString(13, paymentDetails.getBillingPhoneNo());

System.out.println("A5: In addPaymentDetails");

boolean rowInserted = statement.executeUpdate() > 0;

System.out.println("A6: In addPaymentDetails");

// get the id of the record inserted in the database

ResultSet rs = statement.getGeneratedKeys();

int last\_inserted\_id = -1;

if(rs.next())

{

last\_inserted\_id = rs.getInt(1);

}

System.out.println("In PaymentDetailDaoImpl addPaymentDetails method last\_inserted\_id=" + last\_inserted\_id);

paymentDetails.setPaymentId(last\_inserted\_id);

statement.close();

disconnect();

return rowInserted;

}

}

## Interface UserDao.java Source Code

**package com.binu.flyaway.dao;**

**import java.sql.SQLException;**

**import com.binu.flyaway.dto.User;**

**/\*\***

**\* UserDao.java**

**\* This is the interface representing the available data access methods for the User class**

**\***

**\*/**

**public interface UserDao {**

**void connect() throws SQLException;**

**void disconnect() throws SQLException;**

**boolean validateAdminUser(User user) throws SQLException;**

**User findUserByUsername(String username) throws SQLException;**

**User findUser(String username, String password) throws SQLException;**

**boolean updateUserPassword(User user) throws SQLException;**

**}**

## Class UserDaoImpl.java Source Code

package com.binu.flyaway.dao;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.ArrayList;

import java.util.List;

import com.binu.flyaway.dto.Flight;

import com.binu.flyaway.dto.TravelSearchDetail;

import com.binu.flyaway.dto.User;

/\*\*

\* UserDaoImpl.java

\* This is the class containing CRUD implementations of the data access methods listed in the UserDao interface

\*

\*/

public class UserDaoImpl implements UserDao {

private String jdbcURL;

private String jdbcUsername;

private String jdbcPassword;

private Connection jdbcConnection;

/\*\*

\* Constructor that sets JDBC parameters

\*

\* @param jdbcURL

\* @param jdbcUsername

\* @param jdbcPassword

\*/

public UserDaoImpl(String jdbcURL, String jdbcUsername, String jdbcPassword) {

super();

this.jdbcURL = jdbcURL;

this.jdbcUsername = jdbcUsername;

this.jdbcPassword = jdbcPassword;

System.out.println("In UserDaoImpl constructor jdbcURL= " + jdbcURL);

System.out.println("In UserDaoImpl constructor jdbcUsername= " + jdbcUsername);

System.out.println("In UserDaoImpl constructor jdbcPassword= " + jdbcPassword);

}

/\*\*

\* handles connecting to the database via JDBC

\*/

@Override

public void connect() throws SQLException {

if (jdbcConnection == null || jdbcConnection.isClosed()) {

try {

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

} catch (ClassNotFoundException e) {

throw new SQLException(e);

}

jdbcConnection = DriverManager.getConnection(

jdbcURL, jdbcUsername, jdbcPassword);

}

}

/\*\*

\* handles disconnecting from the database via JDBC

\*/

@Override

public void disconnect() throws SQLException {

if (jdbcConnection != null && !jdbcConnection.isClosed()) {

jdbcConnection.close();

}

}

/\*\*

\* handles finding a user in the user database table that matches the user's login information

\*/

@Override

public boolean validateAdminUser(User user) throws SQLException {

boolean isUserValid = false;

String uname = user.getUsername();

String pwd = user.getPassword();

// Here we need to goto the database and retrieve info to compare against user's input

User foundUser = findUser(uname, pwd);

if (foundUser != null) {

return isUserValid = true;

}

System.out.println("In UserDaoImpl isUserValid= " + isUserValid);

return isUserValid;

}

/\*\*

\* handles finding a user record by user name in the user database table using JDBC prepared statement

\*/

@Override

public User findUserByUsername(String username) throws SQLException {

User user = null;

String sql = "SELECT \* FROM user WHERE username = ?";

connect();

PreparedStatement statement = jdbcConnection.prepareStatement(sql);

statement.setString(1, username);

ResultSet resultSet = statement.executeQuery();

while (resultSet.next()) {

String usrname = resultSet.getString("username");

String pwd = resultSet.getString("password");

user = new User(usrname, pwd);

}

resultSet.close();

statement.close();

return user;

}

/\*\*

\* handles finding a user record by user name and password in the user database table using JDBC prepared statement

\*/

@Override

public User findUser(String username, String password) throws SQLException {

User user = null;

String sql = "SELECT \* FROM user WHERE username = ? AND password = ?";

connect();

PreparedStatement statement = jdbcConnection.prepareStatement(sql);

statement.setString(1, username);

statement.setString(2, password);

ResultSet resultSet = statement.executeQuery();

while (resultSet.next()) {

String usrname = resultSet.getString("username");

String pwd = resultSet.getString("password");

user = new User(usrname, pwd);

}

resultSet.close();

statement.close();

return user;

}

/\*\*

\* handles updating a password in a user record in the user database table using JDBC prepared statement

\*/

@Override

public boolean updateUserPassword(User user) throws SQLException {

String sql = "UPDATE user SET password = ? WHERE username = ?";

connect();

PreparedStatement statement = jdbcConnection.prepareStatement(sql);

statement.setString(1, user.getPassword());

statement.setString(2, user.getUsername());

boolean rowUpdated = statement.executeUpdate() > 0;

statement.close();

disconnect();

return rowUpdated;

}

}

## Class Booking.java Source Code

**package** com.binu.flyaway.dto;

/\*\*

\* Class representing a booking data transfer object between java and the database

\*/

**public** **class** Booking {

**private** Integer bookingId;

**private** Integer customerId;

**private** Integer flightId;

**private** Integer paymentId;

**public** Booking() {

}

**public** Booking(Integer customerId, Integer flightId, Integer paymentId) {

**super**();

**this**.customerId = customerId;

**this**.flightId = flightId;

**this**.paymentId = paymentId;

}

**public** Booking(Integer bookingId, Integer customerId, Integer flightId, Integer paymentId) {

**super**();

**this**.bookingId = bookingId;

**this**.customerId = customerId;

**this**.flightId = flightId;

**this**.paymentId = paymentId;

}

**public** Integer getBookingId() {

**return** bookingId;

}

**public** **void** setBookingId(Integer bookingId) {

**this**.bookingId = bookingId;

}

**public** Integer getCustomerId() {

**return** customerId;

}

**public** **void** setCustomerId(Integer customerId) {

**this**.customerId = customerId;

}

**public** Integer getFlightId() {

**return** flightId;

}

**public** **void** setFlightId(Integer flightId) {

**this**.flightId = flightId;

}

**public** Integer getPaymentId() {

**return** paymentId;

}

**public** **void** setPaymentId(Integer paymentId) {

**this**.paymentId = paymentId;

}

@Override

**public** String toString() {

**return** "Booking [bookingId=" + bookingId + ", customerId=" + customerId + ", flightId=" + flightId

+ ", paymentId=" + paymentId + "]";

}

}

## Class Customer.java Source Code

**package** com.binu.flyaway.dto;

/\*\*

\* Class representing a customer data transfer object between java and the database

\*/

**public** **class** Customer {

**private** Integer customerId;

**private** String firstName;

**private** String lastName;

**private** String addressLine1;

**private** String addressLine2;

**private** String city;

**private** String state;

**private** String zipCode;

**private** String phoneNo;

**private** Integer noOfTravelers;

**public** Customer() {

}

**public** Customer(String firstName, String lastName, String addressLine1, String addressLine2,

String city, String state, String zipCode, String phoneNo, Integer noOfTravelers) {

**this**.firstName = firstName;

**this**.lastName = lastName;

**this**.addressLine1 = addressLine1;

**this**.addressLine2 = addressLine2;

**this**.city = city;

**this**.state = state;

**this**.zipCode = zipCode;

**this**.phoneNo = phoneNo;

**this**.noOfTravelers = noOfTravelers;

}

**public** Customer(Integer customerId, String firstName, String lastName, String addressLine1, String addressLine2,

String city, String state, String zipCode, String phoneNo, Integer noOfTravelers) {

**super**();

**this**.customerId = customerId;

**this**.firstName = firstName;

**this**.lastName = lastName;

**this**.addressLine1 = addressLine1;

**this**.addressLine2 = addressLine2;

**this**.city = city;

**this**.state = state;

**this**.zipCode = zipCode;

**this**.phoneNo = phoneNo;

**this**.noOfTravelers = noOfTravelers;

}

**public** Integer getCustomerId() {

**return** customerId;

}

**public** **void** setCustomerId(Integer customerId) {

**this**.customerId = customerId;

}

**public** String getFirstName() {

**return** firstName;

}

**public** **void** setFirstName(String firstName) {

**this**.firstName = firstName;

}

**public** String getLastName() {

**return** lastName;

}

**public** **void** setLastName(String lastName) {

**this**.lastName = lastName;

}

**public** String getAddressLine1() {

**return** addressLine1;

}

**public** **void** setAddressLine1(String addressLine1) {

**this**.addressLine1 = addressLine1;

}

**public** String getAddressLine2() {

**return** addressLine2;

}

**public** **void** setAddressLine2(String addressLine2) {

**this**.addressLine2 = addressLine2;

}

**public** String getCity() {

**return** city;

}

**public** **void** setCity(String city) {

**this**.city = city;

}

**public** String getState() {

**return** state;

}

**public** **void** setState(String state) {

**this**.state = state;

}

**public** String getZipCode() {

**return** zipCode;

}

**public** **void** setZipCode(String zipCode) {

**this**.zipCode = zipCode;

}

**public** String getPhoneNo() {

**return** phoneNo;

}

**public** **void** setPhoneNo(String phoneNo) {

**this**.phoneNo = phoneNo;

}

**public** Integer getNoOfTravelers() {

**return** noOfTravelers;

}

**public** **void** setNoOfTravelers(Integer noOfTravelers) {

**this**.noOfTravelers = noOfTravelers;

}

@Override

**public** String toString() {

**return** "Customer [customerId=" + customerId + ", firstName=" + firstName + ", lastName=" + lastName

+ ", addressLine1=" + addressLine1 + ", addressLine2=" + addressLine2 + ", city=" + city + ", state="

+ state + ", zipCode=" + zipCode + ", phoneNo=" + phoneNo + ", noOfTravelers=" + noOfTravelers + "]";

}

}

## Class Flight.java Source Code

**package** com.binu.flyaway.dto;

**import** java.util.Date;

/\*\*

\* Class representing a flight data transfer object between java and the database

\*/

**public** **class** Flight {

**private** Integer id;

**private** String sourceAirport;

**private** String destinationAirport;

**private** Date departureDate;

**private** Double fare;

**private** Integer numberAvailableSeats;

**private** String airline;

**public** Flight() {

}

**public** Flight(Integer id) {

**this**.id = id;

}

**public** Flight(String sourceAirport, String destinationAirport, Date departureDate, Double fare,

Integer numberAvailableSeats,String airline) {

**this**.sourceAirport = sourceAirport;

**this**.destinationAirport = destinationAirport;

**this**.departureDate = departureDate;

**this**.fare = fare;

**this**.numberAvailableSeats = numberAvailableSeats;

**this**.airline = airline;

}

**public** Flight(Integer id, String sourceAirport, String destinationAirport, Date departureDate, Double fare,

Integer numberAvailableSeats,String airline) {

**this**.id = id;

**this**.sourceAirport = sourceAirport;

**this**.destinationAirport = destinationAirport;

**this**.departureDate = departureDate;

**this**.fare = fare;

**this**.numberAvailableSeats = numberAvailableSeats;

**this**.airline = airline;

}

**public** Integer getId() {

**return** id;

}

**public** **void** setId(Integer id) {

**this**.id = id;

}

**public** String getSourceAirport() {

**return** sourceAirport;

}

**public** **void** setSourceAirport(String sourceAirport) {

**this**.sourceAirport = sourceAirport;

}

**public** String getDestinationAirport() {

**return** destinationAirport;

}

**public** **void** setDestinationAirport(String destinationAirport) {

**this**.destinationAirport = destinationAirport;

}

**public** Date getDepartureDate() {

**return** departureDate;

}

**public** **void** setDepartureDate(Date departureDate) {

**this**.departureDate = departureDate;

}

**public** Double getFare() {

**return** fare;

}

**public** **void** setFare(Double fare) {

**this**.fare = fare;

}

**public** Integer getNumberAvailableSeats() {

**return** numberAvailableSeats;

}

**public** **void** setNumberAvailableSeats(Integer numberAvailableSeats) {

**this**.numberAvailableSeats = numberAvailableSeats;

}

**public** String getAirline() {

**return** airline;

}

**public** **void** setAirline(String airline) {

**this**.airline = airline;

}

@Override

**public** String toString() {

**return** "Flight [id=" + id + ", sourceAirport=" + sourceAirport + ", destinationAirport=" + destinationAirport

+ ", departureDate=" + departureDate + ", fare=" + fare + ", numberAvailableSeats="

+ numberAvailableSeats + ", airline=" + airline + "]";

}

}

## Class PaymentDetails.java Source Code

**package** com.binu.flyaway.dto;

/\*\*

\* Class representing a payment details data transfer object between java and the database

\*/

**public** **class** PaymentDetails {

**private** Integer paymentId;

**private** Integer paymentType; // 1=Credit Card, 2=Debit Card

**private** String cardNo;

**private** Integer cardExpirationMonth;

**private** Integer cardExpirationYear;

**private** Integer cardCvvCode;

**private** String billingFirstName;

**private** String billingLastName;

**private** String billingAddressLine1;

**private** String billingAddressLine2;

**private** String billingCity;

**private** String billingState;

**private** String billingZipCode;

**private** String billingPhoneNo;

**public** PaymentDetails() {

}

**public** PaymentDetails(Integer paymentType, String cardNo, Integer cardExpirationMonth, Integer cardExpirationYear,

Integer cardCvvCode, String billingFirstName, String billingLastName, String billingAddressLine1,

String billingAddressLine2, String billingCity, String billingState, String billingZipCode,

String billingPhoneNo) {

**super**();

**this**.paymentType = paymentType;

**this**.cardNo = cardNo;

**this**.cardExpirationMonth = cardExpirationMonth;

**this**.cardExpirationYear = cardExpirationYear;

**this**.cardCvvCode = cardCvvCode;

**this**.billingFirstName = billingFirstName;

**this**.billingLastName = billingLastName;

**this**.billingAddressLine1 = billingAddressLine1;

**this**.billingAddressLine2 = billingAddressLine2;

**this**.billingCity = billingCity;

**this**.billingState = billingState;

**this**.billingZipCode = billingZipCode;

**this**.billingPhoneNo = billingPhoneNo;

}

**public** PaymentDetails(Integer paymentId, Integer paymentType, String cardNo, Integer cardExpirationMonth,

Integer cardExpirationYear, Integer cardCvvCode, String billingFirstName, String billingLastName,

String billingAddressLine1, String billingAddressLine2, String billingCity, String billingState,

String billingZipCode, String billingPhoneNo) {

**super**();

**this**.paymentId = paymentId;

**this**.paymentType = paymentType;

**this**.cardNo = cardNo;

**this**.cardExpirationMonth = cardExpirationMonth;

**this**.cardExpirationYear = cardExpirationYear;

**this**.cardCvvCode = cardCvvCode;

**this**.billingFirstName = billingFirstName;

**this**.billingLastName = billingLastName;

**this**.billingAddressLine1 = billingAddressLine1;

**this**.billingAddressLine2 = billingAddressLine2;

**this**.billingCity = billingCity;

**this**.billingState = billingState;

**this**.billingZipCode = billingZipCode;

**this**.billingPhoneNo = billingPhoneNo;

}

**public** Integer getPaymentId() {

**return** paymentId;

}

**public** **void** setPaymentId(Integer paymentId) {

**this**.paymentId = paymentId;

}

**public** Integer getPaymentType() {

**return** paymentType;

}

**public** **void** setPaymentType(Integer paymentType) {

**this**.paymentType = paymentType;

}

**public** String getCardNo() {

**return** cardNo;

}

**public** **void** setCardNo(String cardNo) {

**this**.cardNo = cardNo;

}

**public** Integer getCardExpirationMonth() {

**return** cardExpirationMonth;

}

**public** **void** setCardExpirationMonth(Integer cardExpirationMonth) {

**this**.cardExpirationMonth = cardExpirationMonth;

}

**public** Integer getCardExpirationYear() {

**return** cardExpirationYear;

}

**public** **void** setCardExpirationYear(Integer cardExpirationYear) {

**this**.cardExpirationYear = cardExpirationYear;

}

**public** Integer getCardCvvCode() {

**return** cardCvvCode;

}

**public** **void** setCardCvvCode(Integer cardCvvCode) {

**this**.cardCvvCode = cardCvvCode;

}

**public** String getBillingFirstName() {

**return** billingFirstName;

}

**public** **void** setBillingFirstName(String billingFirstName) {

**this**.billingFirstName = billingFirstName;

}

**public** String getBillingLastName() {

**return** billingLastName;

}

**public** **void** setBillingLastName(String billingLastName) {

**this**.billingLastName = billingLastName;

}

**public** String getBillingAddressLine1() {

**return** billingAddressLine1;

}

**public** **void** setBillingAddressLine1(String billingAddressLine1) {

**this**.billingAddressLine1 = billingAddressLine1;

}

**public** String getBillingAddressLine2() {

**return** billingAddressLine2;

}

**public** **void** setBillingAddressLine2(String billingAddressLine2) {

**this**.billingAddressLine2 = billingAddressLine2;

}

**public** String getBillingCity() {

**return** billingCity;

}

**public** **void** setBillingCity(String billingCity) {

**this**.billingCity = billingCity;

}

**public** String getBillingState() {

**return** billingState;

}

**public** **void** setBillingState(String billingState) {

**this**.billingState = billingState;

}

**public** String getBillingZipCode() {

**return** billingZipCode;

}

**public** **void** setBillingZipCode(String billingZipCode) {

**this**.billingZipCode = billingZipCode;

}

**public** String getBillingPhoneNo() {

**return** billingPhoneNo;

}

**public** **void** setBillingPhoneNo(String billingPhoneNo) {

**this**.billingPhoneNo = billingPhoneNo;

}

@Override

**public** String toString() {

**return** "PaymentDetails [paymentId=" + paymentId + ", paymentType=" + paymentType + ", cardNo=" + cardNo

+ ", cardExpirationMonth=" + cardExpirationMonth + ", cardExpirationYear=" + cardExpirationYear

+ ", cardCvvCode=" + cardCvvCode + ", billingFirstName=" + billingFirstName + ", billingLastName="

+ billingLastName + ", billingAddressLine1=" + billingAddressLine1 + ", billingAddressLine2="

+ billingAddressLine2 + ", billingCity=" + billingCity + ", billingState=" + billingState

+ ", billingZipCode=" + billingZipCode + ", billingPhoneNo=" + billingPhoneNo + "]";

}

}

## Class TravelSearchDetails.java Source Code

**package** com.binu.flyaway.dto;

**import** java.sql.Date;

/\*\*

\* TravelSearchDetail.java

\* This is a pojo class that represents the travel details a user enters on the flight search page

\*

\*

\*/

**public** **class** TravelSearchDetail {

**private** String sourceAirport;

**private** String destinationAirport;

**private** Date departureDate;

**private** Integer numberTraveling;

**public** TravelSearchDetail() {

}

**public** TravelSearchDetail(String sourceAirport, String destinationAirport, Date departureDate,

Integer numberTraveling) {

**this**.sourceAirport = sourceAirport;

**this**.destinationAirport = destinationAirport;

**this**.departureDate = departureDate;

**this**.numberTraveling = numberTraveling;

}

**public** String getSourceAirport() {

**return** sourceAirport;

}

**public** **void** setSourceAirport(String sourceAirport) {

**this**.sourceAirport = sourceAirport;

}

**public** String getDestinationAirport() {

**return** destinationAirport;

}

**public** **void** setDestinationAirport(String destinationAirport) {

**this**.destinationAirport = destinationAirport;

}

**public** Date getDepartureDate() {

**return** departureDate;

}

**public** **void** setDepartureDate(Date departureDate) {

**this**.departureDate = departureDate;

}

**public** Integer getNumberTraveling() {

**return** numberTraveling;

}

**public** **void** setNumberTraveling(Integer numberTraveling) {

**this**.numberTraveling = numberTraveling;

}

@Override

**public** String toString() {

**return** "TravelSearchDetail [sourceAirport=" + sourceAirport + ", destinationAirport=" + destinationAirport

+ ", departureDate=" + departureDate + ", numberTraveling=" + numberTraveling + "]";

}

}

## Class User.java Source Code

**package** com.binu.flyaway.dto;

/\*\*

\* Class representing a user data transfer object between java and the database

\*/

**public** **class** User {

**private** String username;

**private** String password;

**public** User() {

}

**public** User(String username, String password) {

**this**.username = username;

**this**.password = password;

}

**public** String getUsername() {

**return** username;

}

**public** **void** setUsername(String username) {

**this**.username = username;

}

**public** String getPassword() {

**return** password;

}

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

**this**.password = password;

}

@Override

**public** String toString() {

**return** "User [username=" + username + ", password=" + password + "]";

}

}

# JSP Files

## JSP admin-error.jsp code listing

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

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

<!DOCTYPE html>

<html>

<head>

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

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"* integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"* crossorigin=*"anonymous"*>

<script src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"* integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"* crossorigin=*"anonymous"*></script>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Fly Away Airline Flight Booking</h1>

<br />

</center>

<h3>{error}</h3>

<br />

<br />

<br />

<hr />

<a href=*"/FlyAwayAirlineBookingProject/home"*><h4>Home</h4></a>

<a href=*"/FlyAwayAirlineBookingProject/adminLogin"*><h4>Admin Login Page</h4></a>

</body>

</html>

## JSP admin-input-error.jsp code listing

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

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

<!DOCTYPE html>

<html>

<head>

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

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"* integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"* crossorigin=*"anonymous"*>

<script src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"* integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"* crossorigin=*"anonymous"*></script>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Fly Away Airline Flight Booking</h1>

<h2>Admin Portal</h2>

<br /><br /><br />

</center>

<h4>ERROR - An invalid input was encountered. Exiting.</h4>

<br />

<br />

<br />

<hr />

<a href=*"/FlyAwayAirlineBookingProject/home"*><h4>Home</h4></a>

<a href=*"/FlyAwayAirlineBookingProject/adminLogin"*><h4>Admin Login Page</h4></a>

</body>

</html>

## JSP admin-login.jsp code listing

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

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

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

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"* integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"* crossorigin=*"anonymous"*>

<script src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"* integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"* crossorigin=*"anonymous"*></script>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Fly Away Airline Flight Booking</h1>

<br />

<h2>Admin Login:</h2>

<form

action=*"http://localhost:8080/FlyAwayAirlineBookingProject/validateAdminLogin"*

method=*"post"*>

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

Admin Username: <input type=*"text"* name=*"adminUserName"* /> <br /><br />

Admin Password: <input type=*"password"* name=*"adminPwd"* /> <br /><br />

</div>

<input type=*"submit"* class=*"btn btn-primary mb-2"* value=*"Login"* />

</form>

</center>

</body>

</html>

## JSP admin-login-error.jsp code listing

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

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

<!DOCTYPE html>

<html>

<head>

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

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"* integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"* crossorigin=*"anonymous"*>

<script src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"* integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"* crossorigin=*"anonymous"*></script>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Fly Away Airline Flight Booking</h1>

<br /><br /><br />

</center>

<h4>ERROR - You did not provide correct admin login credentials</h3>

<br />

<br />

<br />

<hr />

<a href=*"/FlyAwayAirlineBookingProject/home"*><h6>Home</h6></a>

<a href=*"/FlyAwayAirlineBookingProject/adminLogin"*><h6>Admin Login Page</h6></a>

</body>

</html>

## JSP admin-page-access-error.jsp code listing

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

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

<!DOCTYPE html>

<html>

<head>

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

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"* integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"* crossorigin=*"anonymous"*>

<script src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"* integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"* crossorigin=*"anonymous"*></script>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Fly Away Airline Flight Booking</h1>

<br /><br /><br />

</center>

<h4>ERROR - You did not provide correct admin login credentials</h3>

<br />

<br />

<br />

<hr />

<a href=*"/FlyAwayAirlineBookingProject/home"*><h6>Home</h6></a>

<a href=*"/FlyAwayAirlineBookingProject/adminLogin"*><h6>Admin Login Page</h6></a>

</body>

</html>

## JSP admin-portal.jsp code listing

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

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

<!DOCTYPE html>

<html>

<head>

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

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"* integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"* crossorigin=*"anonymous"*>

<script src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"* integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"* crossorigin=*"anonymous"*></script>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Fly Away Airline Flight Booking</h1>

<h2>Admin Portal:</h2>

<br />

<hr>

<a href=*"/FlyAwayAirlineBookingProject/showUpdateUserPasswordForm"*><h5>Update Password</h5></a> <br/>

<a href=*"/FlyAwayAirlineBookingProject/new"*><h5>Add Flight</h5></a>

<a href=*"/FlyAwayAirlineBookingProject/listAllFlightsAdmin"*><h5>List All Flights</h5></a>

<a href=*"/FlyAwayAirlineBookingProject/displayMasterListofAirlinesAdmin"*><h5>Master List of Airlines</h5></a>

<a href=*"/FlyAwayAirlineBookingProject/displayMasterListofAirportsAdmin"*><h5>Master List of Airports</h5></a>

</center>

</body>

</html>

## JSP booking-customer-form.jsp code listing

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

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

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

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"*

content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"*

href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"*

integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"*

crossorigin=*"anonymous"*>

<script

src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"*

integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"*

crossorigin=*"anonymous"*></script>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Fly Away Airline Flight Booking</h1>

<h2>Customer Booking</h2>

<br />

<h2>Register:</h2>

<div align=*"center"*>

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

<table border=*"1"* cellpadding=*"5"*>

<tr>

<th>First Name:</th>

<td><input type=*"text"* name=*"firstName"* size=*"20"* /></td>

</tr>

<tr>

<th>Last Name:</th>

<td><input type=*"text"* name=*"lastName"* size=*"20"* /></td>

</tr>

<tr>

<th>Address Line 1:</th>

<td><input type=*"text"* name=*"addressLine1"* size=*"20"* /></td>

</tr>

<tr>

<th>Address Line 2:</th>

<td><input type=*"text"* name=*"addressLine2"* size=*"20"* /></td>

</tr>

<tr>

<th>City:</th>

<td><input type=*"text"* name=*"city"* size=*"20"* /></td>

</tr>

<tr>

<th>State:</th>

<td><input type=*"text"* name=*"state"* size=*"20"* /></td>

</tr>

<tr>

<th>Zip Code:</th>

<td><input type=*"text"* name=*"zipCode"* size=*"5"* /></td>

</tr>

<tr>

<th>Phone No:</th>

<td><input type=*"text"* name=*"phoneNo"* size=*"10"* /></td>

</tr>

<tr>

<th># of Travelers:</th>

<td><input type=*"number"* name=*"phoneNo"* size=*"5"* /></td>

</tr>

<tr>

<td colspan=*"2"* align=*"center"*><input type=*"submit"*

class=*"btn btn-primary mb-2"* value=*"Register"* /></td>

</tr>

</table>

</form>

</div>

</center>

</body>

</html>

## JSP booking-success-page.jsp code listing

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

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

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

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"*

content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"*

href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"*

integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"*

crossorigin=*"anonymous"*>

<script

src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"*

integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"*

crossorigin=*"anonymous"*></script>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Fly Away Airline Flight Booking</h1>

<h2>Customer Booking</h2>

<br />

<br />

<h4>Congratulations! Your flight was booked successfully!</h4>

<h4>Your booking id is: ${bookingId}</h4>

</center>

</body>

</html>

## JSP confirm-booking-details-form.jsp code listing

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

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

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

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"*

content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"*

href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"*

integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"*

crossorigin=*"anonymous"*>

<script

src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"*

integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"*

crossorigin=*"anonymous"*></script>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Fly Away Airline Flight Booking</h1>

<h2>Customer Booking</h2>

<br />

<br />

<h2>Confirm Booking Details</h2>

<br/><br/>

<h4>Payment Information:</h4>

<form

action=*"http://localhost:8080/FlyAwayAirlineBookingProject/addPaymentDetails"*

method=*"post"*>

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

<label for=*"paymentType"* class=*"col-sm-2 col-form-label"*>Payment

Type (1=CC,2=Debit):</label>

<div class=*"col-sm-10"*>

<input type=*"number"* name=*"paymentType"* id=*"paymentType"*

class=*"form-control"* readonly />

</div>

</div>

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

<label for=*"cardNo"* class=*"col-sm-2 col-form-label"*>Card No:</label>

<div class=*"col-sm-10"*>

<input type=*"number"* name=*"cardNo"* id=*"cardNo"* class=*"form-control"* readonly />

</div>

</div>

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

<label for=*"cardExpirationMonth"* class=*"col-sm-2 col-form-label"*>Exp

Month:</label>

<div class=*"col-sm-10"*>

<input type=*"number"* name=*"cardExpirationMonth"*

id=*"cardExpirationMonth"* class=*"form-control"* readonly />

</div>

</div>

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

<label for=*"cardExpirationYear"* class=*"col-sm-2 col-form-label"*>Exp

Year:</label>

<div class=*"col-sm-10"*>

<input type=*"number"* name=*"cardExpirationYear"*

id=*"cardExpirationYear"* class=*"form-control"* readonly />

</div>

</div>

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

<label for=*"cardCvvCode"* class=*"col-sm-2 col-form-label"*>CVV

Code:</label>

<div class=*"col-sm-10"*>

<input type=*"number"* name=*"cardCvvCode"* id=*"cardCvvCode"*

class=*"form-control"* readonly />

</div>

</div>

<h4>Billing Address:</h4>

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

<label for=*"billingFirstName"* class=*"col-sm-2 col-form-label"*>First

Name:</label>

<div class=*"col-sm-10"*>

<input type=*"text"* name=*"billingFirstName"* id=*"billingFirstName"*

class=*"form-control"* readonly />

</div>

</div>

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

<label for=*"billingLastName"* class=*"col-sm-2 col-form-label"*>Last

Name:</label>

<div class=*"col-sm-10"*>

<input type=*"text"* name=*"billingLastName"* id=*"billingLastName"*

class=*"form-control"* readonly />

</div>

</div>

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

<label for=*"billingAddressLine1"* class=*"col-sm-2 col-form-label"*>Address

Line 1:</label>

<div class=*"col-sm-10"*>

<input type=*"text"* name=*"billingAddressLine1"*

id=*"billingAddressLine1"* class=*"form-control"* readonly />

</div>

</div>

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

<label for=*"billingAddressLine2"* class=*"col-sm-2 col-form-label"*>Address

Line 2:</label>

<div class=*"col-sm-10"*>

<input type=*"text"* name=*"billingAddressLine2"*

id=*"billingAddressLine2"* class=*"form-control"* readonly />

</div>

</div>

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

<label for=*"billingCity"* class=*"col-sm-2 col-form-label"*>City:</label>

<div class=*"col-sm-10"*>

<input type=*"text"* name=*"billingCity"* id=*"billingCity"*

class=*"form-control"* readonly />

</div>

</div>

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

<label for=*"billingState"* class=*"col-sm-2 col-form-label"*>State:</label>

<div class=*"col-sm-10"*>

<input type=*"text"* name=*"billingState"* id=*"billingState"*

class=*"form-control"* readonly />

</div>

</div>

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

<label for=*"billingZipCode"* class=*"col-sm-2 col-form-label"*>Zip

Code:</label>

<div class=*"col-sm-10"*>

<input type=*"text"* name=*"billingZipCode"* id=*"billingZipCode"*

class=*"form-control"* readonly />

</div>

</div>

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

<label for=*"billingPhoneNo"* class=*"col-sm-2 col-form-label"*>Phone

No:</label>

<div class=*"col-sm-10"*>

<input type=*"text"* name=*"billingPhoneNo"* id=*"billingPhoneNo"*

class=*"form-control"* readonly />

</div>

</div>

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

<div class=*"col-sm-10"*>

<button type=*"submit"* class=*"btn btn-primary"*>Submit

Payment Info</button>

</div>

</div>

</form>

</center>

</body>

</html>

## JSP customer-input-error.jsp code listing

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

pageEncoding=*"UTF-8"* isErrorPage=*"true"* %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"

"http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"* integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"* crossorigin=*"anonymous"*>

<script src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"* integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"* crossorigin=*"anonymous"*></script>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Fly Away Airline Flight Booking</h1>

<h2>Customer Input Error Page</h2>

</center>

<br /><br /><br /><br />

<center>

<h4>Invalid input encountered. Exiting.<br/> </h4>

</center>

<br />

<hr>

<br /><br />

<a href=*"/FlyAwayAirlineBookingProject/home"*><h6>Home</h6></a>

</body>

</html>

## JSP customer-list-flights.jsp code listing

<%@ 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>

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"* integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"* crossorigin=*"anonymous"*>

<script src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"* integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"* crossorigin=*"anonymous"*></script>

<style>

*.align-right* {

text-align: *right*;

}

</style>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Fly Away Airline Flight Booking</h1>

<h2>Customer Booking</h2>

<br />

</center>

<div align=*"center"*>

<caption><h3>List of Available Flights</h3></caption>

<table border=*"1"* cellpadding=*"5"* class=*"table"*>

<thead class=*"thead-dark"*>

<tr>

<th>Id</th>

<th>Departure Date</th>

<th>Airline</th>

<th>Source</th>

<th>Destination</th>

<th>Price</th>

<th>Available Seats</th>

<th>Action</th>

</tr>

</thead>

<c:forEach var=*"flight"* items=*"*${listFlight}*"*>

<tr>

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

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

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

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

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

<td class=*"align-right"*><c:out value=*"$${flight.fare}"* /></td>

<td class=*"align-right"*><c:out value=*"*${flight.numberAvailableSeats}*"* /></td>

<td>

<a href=*"/FlyAwayAirlineBookingProject/displayBookingCustomerForm?id=*<c:out value='${flight.id}' />*"*>Book</a>

</td>

</tr>

</c:forEach>

</table>

</div>

</body>

</html>

## JSP customer-search-flights.jsp code listing

<%@ 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>

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"* integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"* crossorigin=*"anonymous"*>

<script src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"* integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"* crossorigin=*"anonymous"*></script>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Fly Away Airline Flight Booking</h1>

<h2>Customer Booking</h2>

<br />

<h3>Search for Flights</h3>

<br />

</center>

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

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

<label for=*"departureDate"* class=*"col-sm-2 col-form-label"*>Departure Date (mm/dd/yyyy):</label>

<div class=*"col-sm-10"*>

<input type=*"date"* id=*"departureDate"* name=*"departureDate"* /> <br />

</div>

</div>

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

<label for=*"departureCity"* class=*"col-sm-2 col-form-label"*>Departure Airport:</label>

<div class=*"col-sm-10"*>

<input type=*"text"* id=*"departureCity"* name=*"departureCity"* length=*3* /> <br />

</div>

</div>

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

<label for=*"destinationCity"* class=*"col-sm-2 col-form-label"*>Destination Airport:</label>

<div class=*"col-sm-10"*>

<input type=*"text"* id=*"destinationCity"* name=*"destinationCity"* length=*3* /> <br />

</div>

</div>

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

<label for=*"numberTraveling"* class=*"col-sm-2 col-form-label"*>Number Traveling:</label>

<div class=*"col-sm-10"*>

<input type=*"text"* id=*"numberTraveling"* name=*"numberTraveling"* /> <br />

</div>

</div>

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

<div class=*"col-sm-10"*>

<button type=*"submit"* class=*"btn btn-primary"*>Find Flights</button>

</div>

</div>

</form>

</body>

</html>

## JSP error.jsp code listing

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

pageEncoding=*"UTF-8"* isErrorPage=*"true"* %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"

"http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"* integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"* crossorigin=*"anonymous"*>

<script src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"* integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"* crossorigin=*"anonymous"*></script>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Fly Away Airline Flight Booking</h1>

<br />

<h2>Error Page</h2>

</center>

<center>

<h4>ERROR - An unexpected error occurred. Exiting.<br/> </h4>

</center>

<br />

<hr>

<br /><br />

<a href=*"/FlyAwayAirlineBookingProject/home"*><h4>Home</h4></a>

</body>

</html>

## JSP fight-form.jsp code listing

<%@ 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>

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"*

content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"*

href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"*

integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"*

crossorigin=*"anonymous"*>

<script

src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"*

integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"*

crossorigin=*"anonymous"*></script>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Fly Away Airline Flight Booking</h1>

<h2>Admin Page</h2>

<br /> <br />

</center>

<center>

<h5>

<a href=*"/FlyAwayAirlineBookingProject/showAdminHome"*>Admin Home</a>

&nbsp;&nbsp;&nbsp; <a

href=*"/FlyAwayAirlineBookingProject/listAllFlightsAdmin"*>List

All Flights</a>

</h5>

<br/><br/>

</center>

<div align=*"center"*>

<c:if test=*"*${flight != null}*"*>

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

</c:if>

<c:if test=*"*${flight == null}*"*>

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

</c:if>

<caption>

<h2>

<c:if test=*"*${flight != null}*"*>

Edit Flight

</c:if>

<c:if test=*"*${flight == null}*"*>

Add New Flight

</c:if>

</h2>

</caption>

<table border=*"1"* cellpadding=*"5"*>

<c:if test=*"*${flight != null}*"*>

<input type=*"hidden"* name=*"id"*

value=*"*<c:out value='${flight.id}' />*"* />

</c:if>

<tr>

<th>Departure Date:</th>

<td><input type=*"date"* name=*"departureDate"*

value=*"*<c:out value='${flight.departureDate}' />*"* />

</td>

</tr>

<tr>

<th>Airline:</th>

<td><input type=*"text"* name=*"airline"* size=*"3"*

value=*"*<c:out value='${flight.airline}' />*"* />

</td>

</tr>

<tr>

<th>Source:</th>

<td><input type=*"text"* name=*"source"* size=*"3"*

value=*"*<c:out value='${flight.sourceAirport}' />*"* />

</td>

</tr>

<tr>

<th>Destination:</th>

<td><input type=*"text"* name=*"destination"* size=*"3"*

value=*"*<c:out value='${flight.destinationAirport}' />*"* />

</td>

</tr>

<tr>

<th>Fare:</th>

<td><input type=*"text"* name=*"fare"* size=*"10"*

value=*"*<c:out value='${flight.fare}' />*"* /></td>

</tr>

<tr>

<th>Available Seats:</th>

<td><input type=*"text"* name=*"availableSeats"* size=*"3"*

value=*"*<c:out value='${flight.numberAvailableSeats}' />*"* />

</td>

</tr>

<tr>

<td colspan=*"2"* align=*"center"*><input type=*"submit"*

class=*"btn btn-primary mb-2"* value=*"Save"* /></td>

</tr>

</table>

</form>

</div>

</body>

</html>

## JSP index.jsp code listing

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

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

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

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"* integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"* crossorigin=*"anonymous"*>

<script src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"* integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"* crossorigin=*"anonymous"*></script>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Welcome to Fly Away Airline Flight Booking</h1>

<br /><br />

<a href=*"/FlyAwayAirlineBookingProject/customerSearchFlights"*><h2>Search for flights</h2></a>

<br />

<a href=*"/FlyAwayAirlineBookingProject/listAllFlightsCustomer"*><h2>List all flights</h2></a>

<br /><br /><br /><br /><br /><br />

<a href=*"/FlyAwayAirlineBookingProject/adminLogin"*><h5>Login as an Admin</h5></a>

</center>

</body>

</html>

## JSP list-all-flights.jsp code listing

<%@ 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>

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"* integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"* crossorigin=*"anonymous"*>

<script src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"* integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"* crossorigin=*"anonymous"*></script>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Fly Away Airline Flight Booking</h1>

<h2>Admin Page</h2>

<br />

</center>

<center>

<h5>

<a href=*"/FlyAwayAirlineBookingProject/showAdminHome"*>Admin Home</a>

&nbsp;&nbsp;&nbsp;

<a href=*"/FlyAwayAirlineBookingProject/new"*>Add New Flight</a>

</h5>

<br/><br/>

</center>

<div align=*"center"*>

<caption><h2>List of Flights</h2></caption>

<table border=*"1"* cellpadding=*"5"* class=*"table"*>

<tr>

<th>Id</th>

<th>Departure Date</th>

<th>Airline</th>

<th>Source</th>

<th>Destination</th>

<th>Price</th>

<th>Available Seats</th>

<th>Action</th>

</tr>

<c:forEach var=*"flight"* items=*"*${listFlight}*"*>

<tr>

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

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

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

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

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

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

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

<td>

<a href=*"/FlyAwayAirlineBookingProject/edit?id=*<c:out value='${flight.id}' />*"*>Edit</a>

&nbsp;&nbsp;&nbsp;&nbsp;

<a href=*"/FlyAwayAirlineBookingProject/delete?id=*<c:out value='${flight.id}' />*"*>Delete</a>

</td>

</tr>

</c:forEach>

</table>

</div>

</body>

</html>

## JSP master-list-airlines.jsp code listing

<%@ 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>

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"* integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"* crossorigin=*"anonymous"*>

<script src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"* integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"* crossorigin=*"anonymous"*></script>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Fly Away Airline Flight Booking</h1>

<h2>Admin Page</h2>

<br /><br /><br />

</center>

<center>

<h6>

<a href=*"/FlyAwayAirlineBookingProject/showAdminHome"*>Admin Home</a>

&nbsp;&nbsp;&nbsp;

<a href=*"/FlyAwayAirlineBookingProject/new"*>Add New Flight</a>

&nbsp;&nbsp;&nbsp;

<a href=*"/FlyAwayAirlineBookingProject/listAllFlightsAdmin"*>List All Flights</a>

<br /><br /><br />

</h6>

</center>

<div align=*"center"*>

<caption><h2>Master List of Airlines</h2></caption>

<br /><br />

<table border=*"1"* cellpadding=*"5"*>

<tr>

<th>Airline</th>

</tr>

<c:forEach var=*"airline"* items=*"*${setAirlines}*"*>

<tr>

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

</tr>

</c:forEach>

</table>

</div>

</body>

</html>

## JSP master-list-airports.jsp code listing

<%@ 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>

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"* integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"* crossorigin=*"anonymous"*>

<script src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"* integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"* crossorigin=*"anonymous"*></script>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Fly Away Airline Flight Booking</h1>

<h2>Admin Page</h2>

<br /><br /><br />

</center>

<center>

<h6>

<a href=*"/FlyAwayAirlineBookingProject/showAdminHome"*>Admin Home</a>

&nbsp;&nbsp;&nbsp;

<a href=*"/FlyAwayAirlineBookingProject/new"*>Add New Flight</a>

&nbsp;&nbsp;&nbsp;

<a href=*"/FlyAwayAirlineBookingProject/listAllFlightsAdmin"*>List All Flights</a>

<br /><br /><br />

</h6>

</center>

<div align=*"center"*>

<caption><h2>Master List of Airports</h2></caption>

<br /><br />

<table border=*"1"* cellpadding=*"5"*>

<tr>

<th>Airport</th>

</tr>

<c:forEach var=*"airport"* items=*"*${setAirports}*"*>

<tr>

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

</tr>

</c:forEach>

</table>

</div>

</body>

</html>

## JSP payment-details-form.jsp code listing

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

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

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

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"*

content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"*

href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"*

integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"*

crossorigin=*"anonymous"*>

<script

src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"*

integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"*

crossorigin=*"anonymous"*></script>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Fly Away Airline Flight Booking</h1>

<h2>Customer Booking</h2>

<br />

<br />

<h3>Payment Information:</h3>

<form

action=*"http://localhost:8080/FlyAwayAirlineBookingProject/addPaymentDetails"*

method=*"post"*>

<div class=*"form-row align-items-center"*>

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

<label for=*"paymentType"* class=*"col-sm-2 col-form-label"*>Payment

Type (1=CC,2=Debit):</label>

<div class=*"col-auto"*>

<input type=*"number"* name=*"paymentType"* id=*"paymentType"*

class=*"form-control"* />

</div>

</div>

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

<label for=*"cardNo"* class=*"col-sm-2 col-form-label"*>Card No:</label>

<div class=*"col-auto"*>

<input type=*"number"* name=*"cardNo"* id=*"cardNo"* class=*"form-control"* />

</div>

</div>

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

<label for=*"cardExpirationMonth"* class=*"col-sm-2 col-form-label"*>Exp

Month:</label>

<div class=*"col-auto"*>

<input type=*"number"* name=*"cardExpirationMonth"*

id=*"cardExpirationMonth"* class=*"form-control"* />

</div>

</div>

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

<label for=*"cardExpirationYear"* class=*"col-sm-2 col-form-label"*>Exp

Year:</label>

<div class=*"col-auto"*>

<input type=*"number"* name=*"cardExpirationYear"*

id=*"cardExpirationYear"* class=*"form-control"* />

</div>

</div>

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

<label for=*"cardCvvCode"* class=*"col-sm-2 col-form-label"*>CVV

Code:</label>

<div class=*"col-auto"*>

<input type=*"number"* name=*"cardCvvCode"* id=*"cardCvvCode"*

class=*"form-control"* />

</div>

</div>

<h3>Billing Address:</h3>

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

<label for=*"billingFirstName"* class=*"col-sm-2 col-form-label"*>First

Name:</label>

<div class=*"col-auto"*>

<input type=*"text"* name=*"billingFirstName"* id=*"billingFirstName"*

class=*"form-control"* />

</div>

</div>

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

<label for=*"billingLastName"* class=*"col-sm-2 col-form-label"*>Last

Name:</label>

<div class=*"col-auto"*>

<input type=*"text"* name=*"billingLastName"* id=*"billingLastName"*

class=*"form-control"* />

</div>

</div>

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

<label for=*"billingAddressLine1"* class=*"col-sm-2 col-form-label"*>Address

Line 1:</label>

<div class=*"col-auto"*>

<input type=*"text"* name=*"billingAddressLine1"*

id=*"billingAddressLine1"* class=*"form-control"* />

</div>

</div>

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

<label for=*"billingAddressLine2"* class=*"col-sm-2 col-form-label"*>Address

Line 2:</label>

<div class=*"col-auto"*>

<input type=*"text"* name=*"billingAddressLine2"*

id=*"billingAddressLine2"* class=*"form-control"* />

</div>

</div>

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

<label for=*"billingCity"* class=*"col-sm-2 col-form-label"*>City:</label>

<div class=*"col-auto"*>

<input type=*"text"* name=*"billingCity"* id=*"billingCity"*

class=*"form-control"* />

</div>

</div>

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

<label for=*"billingState"* class=*"col-sm-2 col-form-label"*>State:</label>

<div class=*"col-auto"*>

<input type=*"text"* name=*"billingState"* id=*"billingState"*

class=*"form-control"* />

</div>

</div>

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

<label for=*"billingZipCode"* class=*"col-sm-2 col-form-label"*>Zip

Code:</label>

<div class=*"col-auto"*>

<input type=*"text"* name=*"billingZipCode"* id=*"billingZipCode"*

class=*"form-control"* />

</div>

</div>

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

<label for=*"billingPhoneNo"* class=*"col-sm-2 col-form-label"*>Phone

No:</label>

<div class=*"col-auto"*>

<input type=*"text"* name=*"billingPhoneNo"* id=*"billingPhoneNo"*

class=*"form-control"* />

</div>

</div>

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

<div class=*"col-auto"*>

<button type=*"submit"* class=*"btn btn-primary"*>Submit

Payment Info</button>

</div>

</div>

</div>

</form>

</center>

</body>

</html>

## JSP update-user-password-form.jsp code listing

<%@ 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>

<title>Fly Away Airline Flight Booking Application</title>

<!-- Required meta tags -->

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

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"* integrity=*"sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"* crossorigin=*"anonymous"*>

<script src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.min.js"* integrity=*"sha384-skAcpIdS7UcVUC05LJ9Dxay8AXcDYfBJqt1CJ85S/CFujBsIzCIv+l9liuYLaMQ/"* crossorigin=*"anonymous"*></script>

<style>

**body** {

background-color: *lightblue*;

}

</style>

</head>

<body>

<center>

<h1>Fly Away Airline Flight Booking</h1>

<h2>Admin Page</h2>

<br />

<br />

</center>

<center>

<h6>

<a href=*"/FlyAwayAirlineBookingProject/showAdminHome"*>Admin Home</a>

&nbsp;&nbsp;&nbsp;

<a href=*"/FlyAwayAirlineBookingProject/new"*>Add New Flight</a>

&nbsp;&nbsp;&nbsp;

<a href=*"/FlyAwayAirlineBookingProject/listAllFlightsAdmin"*>List All Flights</a>

<br/><br/><br/>

</h6>

</center>

<div align=*"center"*>

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

<caption>

<h2>Update Password</h2>

</caption>

<br/><br/>

<table border=*"1"* cellpadding=*"5"*>

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

<c:if test=*"*${user != null}*"*>

<input type=*"hidden"* name=*"username"* value=*"*<c:out value='${user.username}' />*"* />

</c:if>

<tr>

<td>

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

</td>

</tr>

</div>

<tr>

<td colspan=*"2"* align=*"center"*>

<input type=*"submit"* class=*"btn btn-primary mb-2"* value=*"Update"* />

</td>

</tr>

</table>

</form>

</div>

</body>

</html>