(Source Code)

Fly Away Project

(Web Application)

Hibernate Configuration:

hibernate.cfg.xml →

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-configuration PUBLIC
        "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
        "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
<hibernate-configuration>
        <session-factory>
                <property name="dialect">org.hibernate.dialect.OracleDialect</property>
                <property name="connection.url">jdbc:oracle:thin:@localhost:1521:ORCLE</property>
                <property name="connection.username">system</property>
                <property name="connection.password">system</property>
                <property name="connection.driver_class">oracle.jdbc.driver.OracleDriver</property>
                <property name="hbm2ddl.auto">update</property>
                <property name="show_sql">true</property>

                <mapping class="com.simplilearn.UserCred" />
                <mapping class="com.simplilearn.Flight" />
        </session-factory>
</hibernate-configuration>
```

DAO Layer:

FlightDao.java →

```java
package com.simplilearn.dao;

import java.util.ArrayList;
import java.util.List;
import org.hibernate.Session;
import org.hibernate.Transaction;
import com.simplilearn.model.Flight;
import com.simplilearn.util.HibernateUtil;

public class FlightDao {

        public static Transaction transaction;
        public static Session session;

        public boolean addFlight(Flight flight) {
                boolean validUserFlag = false;
                transaction = null;

                try {
                        // Open session if it is not already open and begin transaction
                        if (session == null) {
                                session = HibernateUtil.sessionFactory.openSession();
                        }
                        transaction = session.beginTransaction();

                        // Save the Flight object and commit transaction
                        session.save(flight);
                        transaction.commit();
                        validUserFlag = true;

                } catch (Exception e) {
                        // Rolling back transaction if it is not successful
                        if (transaction != null){
                                System.out.println("Rolling back transaction as some error occured while saving flight
Object");

                                transaction.rollback();
                        }
                }
                return validUserFlag;
        }

        public List<Flight> getFlights(Flight flight, Integer seatsToBook) {
                List<Flight> flights = new ArrayList<Flight>();
                transaction = null;

                try {
                        // Open session if it is not already open and begin transaction
                        if (session == null) {
                                System.out.println("Initiating session for fetching flights...");
                                session = HibernateUtil.sessionFactory.openSession();
                        }
                        transaction = session.beginTransaction();

                        // Creating Query to fetch available flights which are matching provided criteria
                        String queryString = "from Flight where from_location = '" + flight.getFromLocation() + "' AND ";
                        queryString = queryString + "to_location = '" + flight.getToLocation() + "' AND ";
                        queryString = queryString + "departure = '" + flight.getDeparture() + "' AND available_seats > "
                                        + seatsToBook;
```

```java
                System.out.println(queryString);

                // Fetching list of available flights and committing transaction
                flights = session.createQuery(queryString).list();
                transaction.commit();

        } catch (Exception e) {
                // Rolling back transaction if it is not successful
                if (transaction != null){
                        System.out.println("Rolling back transaction as some error occured while fetching flight
Objects");
                        transaction.rollback();
                }
        }
        return flights;
    }

public List<Flight> getAllFlights() {
                List<Flight> allFlights = new ArrayList<Flight>();
                transaction = null;

                try {
                        // Open session if it is not already open and begin transaction
                        if (session == null) {
                                session = HibernateUtil.sessionFactory.openSession();
                        }
                        transaction = session.beginTransaction();

                        // Fetching list of available flights and committing transaction
                        allFlights = session.createQuery("from Flight").list();
                        System.out.println(allFlights);
                        transaction.commit();

                } catch (Exception e) {
                        // Rolling back transaction if it is not successful
                        if (transaction != null){
                                System.out.println("Rolling back transaction as some error occured while fetching flight
Objects");
                                transaction.rollback();
                        }
                }
                return allFlights;
        }

        public boolean bookSeats(Integer flightId) {
                boolean seatBookFlag = false;
                transaction = null;

                try {
                        // Open session if it is not already open and begin transaction
                        if (session == null) {
                                session = HibernateUtil.sessionFactory.openSession();
                        }
                        transaction = session.beginTransaction();

                        // Fetching Flight object and updating available seats and then committing the transaction
                        Flight flight = session.get(Flight.class, flightId);
                        if (flight != null) {
                                flight.setAvailableSeats(flight.getAvailableSeats() - 1);
                                session.update(flight);
                                transaction.commit();
                                seatBookFlag = true;
                        }
```

```java
        } catch (Exception e) {
                // Rolling back transaction if it is not successful
                if (transaction != null){
                        System.out.println("Rolling back transaction as some error occured while booking flight");
                        transaction.rollback();
                }
        }
        return seatBookFlag;
}

public boolean deleteFlight(Integer flightId) {
        boolean flightDeletionFlag = false;
        transaction = null;

        try {
                // Open session if it is not already open and begin transaction
                if (session == null) {
                        session = HibernateUtil.sessionFactory.openSession();
                }
                transaction = session.beginTransaction();

                // Fetching Flight object and deleting that flight and then committing the transaction
                Flight flight = session.get(Flight.class, flightId);
                if (flight != null) {
                        session.delete(flight);
                        transaction.commit();
                        flightDeletionFlag = true;
                }

        } catch (Exception e) {
                // Rolling back transaction if it is not successful
                if (transaction != null){
                        System.out.println("Rolling back transaction as some error occured while deleting flight");
                        transaction.rollback();
                }
        }
        return flightDeletionFlag;
}}
```

```java
package com.simplilearn.dao;

import org.hibernate.Session;
import org.hibernate.Transaction;
import com.simplilearn.model.UserCred;
import com.simplilearn.util.HibernateUtil;

public class UserDao {

    public static Transaction transaction;
    public static Session session;

    public boolean validateUser(UserCred userCred) {
        boolean validUserFlag = false;
        try {
            // Open session if it is not already open and begin transaction
            if (session == null) {
                session = HibernateUtil.sessionFactory.openSession();
            }

            // Fetching user based on user name provided
            UserCred tempUserCred = (UserCred) session.get(UserCred.class, userCred.getUserName());

            // Validating Password with temporarily stored user from DB for provided user name
            if (tempUserCred == null){
                return validUserFlag;
            } else {
                if (tempUserCred.getPassword().equals(userCred.getPassword())){
                    validUserFlag = true;
                    return validUserFlag;
                }
            }

        } catch (Exception e) {
            System.out.println("Some error occured while validating user...");
        }
        return validUserFlag;
    }

    public boolean saveUser(UserCred userCred) {
        boolean validUserFlag = false;
        transaction = null;

        try {
            // Open session if it is not already open and begin transaction
            if (session == null) {
                session = HibernateUtil.sessionFactory.openSession();
            }
            transaction = session.beginTransaction();

            // Save the User object and commit transaction
            session.save(userCred);
            transaction.commit();
            validUserFlag = true;
        } catch (Exception e) {
            // Rolling back transaction if user is not saved successfully
            if (transaction != null){
                System.out.println("Rolling back transaction as either some error occured or same user name already exists in database...");
                transaction.rollback();
            }
```

```java
            }
            return validUserFlag;
        }


        public boolean updatePassword(UserCred userCred) {
            boolean validUserFlag = false;
            transaction = null;

            try {
                // Open session if it is not already open and begin transaction
                if (session == null) {
                    session = HibernateUtil.sessionFactory.openSession();
                }
                transaction = session.beginTransaction();

                // Fetching Used based on user name provided
                UserCred tempUser = (UserCred) session.load(UserCred.class, userCred.getUserName());

                // Updating password for fetched user and committing transaction
                tempUser.setPassword(userCred.getPassword());
                transaction.commit();
                validUserFlag = true;

            } catch (Exception e) {
                // Rolling back transaction if password is not updated successfully
                if (transaction != null) {
                    System.out.println("Rolling back transaction as some error occured while updating password
for admin");

                    transaction.rollback();
                }
            }
            return validUserFlag;
        }
}
```

Model Layer:

<u>Flight.java</u> →

```java
package com.simplilearn.model;

import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.Table;

@Entity
@Table(name = "flight")
public class Flight {
        //Instance Variable Declaration
        @Id
        @GeneratedValue(strategy = GenerationType.AUTO)
        @Column(name = "id")
        private Integer id;
        @Column(name = "name")
        private String name;
        @Column(name = "from_location")
        private String fromLocation;
        @Column(name = "to_location")
        private String toLocation;
        @Column(name = "departure")
        private String departure;
        @Column(name = "time")
        private String time;
        @Column(name = "price")
        private Integer price;
        @Column(name = "available_seats")
        private Integer availableSeats;

        //Non-parameterized and parameterized Constructor
        public Flight() {

        }

        // Getters and Setters
        public Integer getId() {
                return id;
        }
        public void setId(Integer id) {
                this.id = id;
        }
        public String getName() {
                return name;
        }
        public void setName(String name) {
                this.name = name;
        }
        public String getFromLocation() {
                return fromLocation;
        }
        public void setFromLocation(String fromLocation) {
                this.fromLocation = fromLocation;
        }
        public String getToLocation() {
                return toLocation;
```

```java
		}
		public void setToLocation(String toLocation){
			this.toLocation = toLocation;
		}
		public String getDeparture() {
			return departure;
		}
		public void setDeparture(String departure) {
			this.departure = departure;
		}
		public String getTime() {
			return time;
		}
		public void setTime(String time) {
			this.time = time;
		}
		public Integer getPrice() {
			return price;
		}
		public void setPrice(Integer price) {
			this.price = price;
		}
		public Integer getAvailableSeats() {
			return availableSeats;
		}
		public void setAvailableSeats(Integer availableSeats) {
			this.availableSeats = availableSeats;
		}

		//To String Method
		@Override
		public String toString() {
			return "Flight [id=" + id + ", name=" + name + ", fromLocation=" + fromLocation + ", toLocation=" + toLocation
					+ ", departure=" + departure + ", time=" + time + ", price=" + price + ", availableSeats="
					+ availableSeats + "]";
		}
}
```

<u>UserCred.java</u> →

```java
package com.simplilearn.model;

import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.Id;
import javax.persistence.Table;

@Entity
@Table(name = "user_cred")
public class UserCred {
        //Instance Variable Declaration
        @Id
        @Column(name = "user_name")
        private String userName;
        @Column(name = "password")
        private String password;
        @Column(name = "name")
        private String name;
        @Column(name = "phone", length = 10)
        private String phone;
        @Column(name = "aadhar", length = 12)
        private String aadhar;

        //Non-parameterized Constructor
        public UserCred(){
        }

        // Getters and Setters
        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;
        }
        public String getName() {
                return name;
        }
        public void setName(String name){
                this.name = name;
        }
        public String getPhone() {
                return phone;
        }
        public void setPhone(String phone) {
                this.phone = phone;
        }
        public String getAadhar() {
                return aadhar;
        }
        public void setAadhar(String aadhar) {
                this.aadhar = aadhar;
        }

        //To String Method
        @Override
```

```java
        public String toString() {
                return "UserCred [userName=" + userName + ", password=" + password + ", name=" + name + ", phone=" +
phone
                                + ", aadhar=" + aadhar + "]";
        }
}
```

Util Layer:

HibernateUtil.java→

```java
package com.simplilearn.util;

import javax.servlet.http.HttpSession;

import org.hibernate.SessionFactory;
import org.hibernate.boot.registry.StandardServiceRegistryBuilder;
import org.hibernate.cfg.Configuration;

import com.simplilearn.model.Flight;
import com.simplilearn.model.UserCred;

public class HibernateUtil {
	public static SessionFactory sessionFactory;
	public static HttpSession newHttpSession;

	static {
		if (sessionFactory == null) {
			try {
				// Creating connection with DB
				Configuration configuration = new Configuration().configure();
				configuration.addAnnotatedClass(UserCred.class);
				configuration.addAnnotatedClass(Flight.class);
				StandardServiceRegistryBuilder builder = new StandardServiceRegistryBuilder()
							.applySettings(configuration.getProperties());
				sessionFactory = configuration.buildSessionFactory(builder.build());
				System.out.println("Connection With DB is Successfully Established...");

			} catch (Exception e) {
				System.out.println("Some error occured while connecting to database...");
				e.printStackTrace();
			}
		}
	}
}
```

Web (Servlets) Layer:

UserLogin.java→

```java
package com.simplilearn.web;

import java.io.IOException;
import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import com.simplilearn.dao.UserDao;
import com.simplilearn.model.UserCred;
import com.simplilearn.util.HibernateUtil;

@WebServlet("/UserLogin")
public class UserLogin extends HttpServlet {
        private static final long serialVersionUID = 1L;
        private static UserDao userDao;
        private static PrintWriter out;

        public void init() throws ServletException {
                userDao = new UserDao();
        }

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

        public void validateUser(HttpServletRequest request, HttpServletResponse response) throws IOException {
                RequestDispatcher requestDispatcher1 = request.getRequestDispatcher("SearchFlight.jsp");
                RequestDispatcher requestDispatcher2 = request.getRequestDispatcher("UserLogin.jsp");
                out = response.getWriter();
                String message;

                UserCred userCred = new UserCred();
                userCred.setUserName(request.getParameter("email"));
                userCred.setPassword(request.getParameter("password"));
                boolean validUserFlag = userDao.validateUser(userCred);

                if (validUserFlag) {
                        try {
                                if (HibernateUtil.newHttpSession == null) {
                                        HibernateUtil.newHttpSession = request.getSession();
                                        HibernateUtil.newHttpSession.setAttribute("email", userCred.getUserName());
                                } else {
                                        HibernateUtil.newHttpSession = null;
                                        HibernateUtil.newHttpSession = request.getSession();
                                }
                                requestDispatcher1.include(request, response);
                        } catch (ServletException e) {
                                System.out.println("Some Error occured while redirecting to SearchFlight.jsp page...");
                                System.out.println("Please Try Again by restarting the application...");
                        }
                } else {
```

```java
				message = "<div align=\"center\"><p style=\"width: 30%; text-align: center; color: red; font-size: x-large; background-color: thistle;\">Invalid User Email/Password...</p></div>";
				out.println(message);
				try {
					requestDispatcher2.include(request, response);
				} catch (ServletException e) {
					System.out.println("Some Error occured while redirecting to UserLogin.jsp page...");
					System.out.println("Please Try Again by restarting the application...");
				}
			}
		}

		@Override
		public void destroy() {
			HibernateUtil.sessionFactory.close();
			out.close();
		}
}
```

<u>DeleteFlight.java</u>→

```java
package com.simplilearn.web;


import java.io.IOException;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import com.simplilearn.dao.FlightDao;

@WebServlet("/DeleteFlight")
public class DeleteFlight extends HttpServlet {
        private static final long serialVersionUID = 1L;
        private static FlightDao flightDao;

        @Override
        public void init() {
                flightDao = new FlightDao();
        }

        @Override
        protected void service(HttpServletRequest request, HttpServletResponse response)
                        throws ServletException, IOException {
                deleteFlight(request, response);
        }

        public void deleteFlight(HttpServletRequest request, HttpServletResponse response) {
                RequestDispatcher requestDispatcher = request.getRequestDispatcher("DeletionStatus.jsp");

                boolean deletionStatus = false;
                if (request.getParameter("id") != null) {
                        Integer flightId = Integer.parseInt(request.getParameter("id"));
                        deletionStatus = flightDao.deleteFlight(flightId);
                        request.setAttribute("deletionStatus", !deletionStatus);
                        request.setAttribute("deletedflightId", flightId);
                        try {
                                requestDispatcher.include(request, response);
                        } catch (ServletException e1) {
                                System.out.println("Servlet Exception occured while redirecting to DeletionStatus.jsp
page...");

                                System.out.println("Please Try Again by restarting the application...");
                        } catch (IOException e2) {
                                System.out.println("IO Exception occured while redirecting to DeletionStatus.jsp page...");
                                System.out.println("Please Try Again by restarting the application...");
                        }
                }
        }
}
```

ViewAllFlights.java→

```java
package com.simplilearn.web;


import java.io.IOException;
import java.io.PrintWriter;
import java.util.List;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import com.simplilearn.dao.FlightDao;
import com.simplilearn.model.Flight;
import com.simplilearn.util.HibernateUtil;

@WebServlet("/ViewAllFlights")
public class ViewAllFlights extends HttpServlet {
        private static final long serialVersionUID = 1L;
        private static FlightDao flightDao;
        private static PrintWriter out;

        public void init() throws ServletException {
                flightDao = new FlightDao();
        }

        @Override
        protected void service(HttpServletRequest request, HttpServletResponse response) throws ServletException,
IOException {
                fetchAllFlights(request, response);
        }

        public void fetchAllFlights(HttpServletRequest request, HttpServletResponse response) {
                RequestDispatcher requestDispatcher1 = request.getRequestDispatcher("ViewAllFlights.jsp");
                RequestDispatcher requestDispatcher2 = request.getRequestDispatcher("AdminHome.jsp");
                try {
                        out = response.getWriter();
                } catch (IOException e1) {
                        System.out.println("IO Exception occured while getting printwriter object...");
                        System.out.println("Please Try Again by restarting the application...");
                }

                List<Flight> allFlightsList = flightDao.getAllFlights();

                if (!allFlightsList.isEmpty()) {
                        try {
                                request.setAttribute("allFlights", allFlightsList);
                                HibernateUtil.newHttpSession.setAttribute("allFlights", allFlightsList);
                                requestDispatcher1.include(request, response);
                        } catch (ServletException e2) {
                                System.out.println("Servlet Exception occured while redirecting to ViewAllFlights.jsp
page...");
                                System.out.println("Please Try Again by restarting the application...");
                        } catch (IOException e3) {
```

```java
                        System.out.println("IO Exception occured while redirecting to ViewAllFlights.jsp page...");
                        System.out.println("Please Try Again by restarting the application...");
                }
        } else {
                String message = "<div align=\"center\"><p style=\"width: 30%; text-align: center; color: red; font-size: x-large; background-color: thistle;\">No Flights Available...</p></div>";
                out.println(message);
                try {
                        requestDispatcher2.include(request, response);
                } catch (ServletException e2) {
                        System.out.println("Servlet Exception occured while redirecting to AdminHome.jsp page...");
                        System.out.println("Please Try Again by restarting the application...");
                } catch (IOException e3) {
                        System.out.println("IO Exception occured while redirecting to AdminHome.jsp page...");
                        System.out.println("Please Try Again by restarting the application...");
                }
        }
    }
}
```

SearchFlight.java→

```java
package com.simplilearn.web;

import java.io.IOException;
import java.io.PrintWriter;
import java.util.List;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import com.simplilearn.dao.FlightDao;
import com.simplilearn.model.Flight;
import com.simplilearn.util.HibernateUtil;

@WebServlet("/SearchFlight")
public class SearchFlight extends HttpServlet {
        private static final long serialVersionUID = 1L;
        private static FlightDao flightDao;
        private static PrintWriter out;

        public void init() throws ServletException {
                flightDao = new FlightDao();
        }

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

        public void searchFlight(HttpServletRequest request, HttpServletResponse response) throws IOException {
                RequestDispatcher requestDispatcher1 = request.getRequestDispatcher("AvailableFlights.jsp");
                RequestDispatcher requestDispatcher2 = request.getRequestDispatcher("SearchFlight.jsp");
                out = response.getWriter();

                Integer seatsToBook = Integer.parseInt(request.getParameter("travellers"));

                Flight flight = new Flight();
                flight.setFromLocation(request.getParameter("fromLocation"));
                flight.setToLocation(request.getParameter("toLocation"));
                flight.setDeparture(request.getParameter("departure"));
                List<Flight> flightsList = flightDao.getFlights(flight, seatsToBook);

                if (!flightsList.isEmpty()){
                        try {
                                request.setAttribute("list", flightsList);
                                HibernateUtil.newHttpSession.setAttribute("list", flightsList);
                                requestDispatcher1.include(request, response);
                        } catch (ServletException e) {
                                System.out.println("Some Error occured while redirecting to AvailableFlights.jsp page...");
                                System.out.println("Please Try Again by restarting the application...");
                        }
                } else {
                        String message = "<div align=\"center\"><p style=\"width: 30%; text-align: center; color: red; font-size: x-large; background-color: thistle;\">No Flights Available...</p></div>";
                        out.println(message);
                        try {
                                requestDispatcher2.include(request, response);
                        } catch (ServletException e) {
```

```java
					System.out.println("Some Error occured while redirecting to SearchFlight.jsp page...");
					System.out.println("Please Try Again by restarting the application...");
				}
			}
		}

		@Override
		public void destroy() {
			out.close();
		}
}
```

PasswordReset.java→

```java
package com.simplilearn.web;

import java.io.IOException;
import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import com.simplilearn.dao.UserDao;
import com.simplilearn.model.UserCred;

@WebServlet("/PasswordReset")
public class PasswordReset extends HttpServlet {
        private static final long serialVersionUID = 1L;
        private static UserDao userDao;
        private static PrintWriter out;

        public void init() throws ServletException {
                userDao = new UserDao();
        }

        @Override
        protected void doPost(HttpServletRequest request, HttpServletResponse response)
                        throws ServletException, IOException {
                updatePassword(request, response);
        }

        public void updatePassword(HttpServletRequest request, HttpServletResponse response) throws IOException {
                RequestDispatcher requestDispatcher = request.getRequestDispatcher("AdminLogin.jsp");
                out = response.getWriter();
                String message;

                UserCred userCred = new UserCred();
                userCred.setUserName(request.getParameter("email"));
                userCred.setPassword(request.getParameter("password"));

                boolean validUserFlag = userDao.updatePassword(userCred);

                if (validUserFlag) {
                        message = "<div align=\"center\"><p style=\"width: 30%; text-align: center; color: green; font-size: x-
large; background-color: thistle;\">Password Successfully Reset for Admin...</p></div>";
                        out.println(message);
                        try {
                                requestDispatcher.include(request, response);
                        } catch (ServletException e) {
                                System.out.println("Some Error occured while redirecting to AdminLogin.jsp page...");
                                System.out.println("Please Try Again by restarting the application...");
                        }
                } else {
                        message = "<div align=\"center\"><p style=\"width: 30%; text-align: center; color: red; font-size: x-
large; background-color: thistle;\">Not able to Reset Password... Please Contact Administrator...</p></div>";
                        out.println(message);
                        try {
                                requestDispatcher.include(request, response);
                        } catch (ServletException e) {
                                System.out.println("Some Error occured while redirecting to AdminLogin.jsp page...");
                                System.out.println("Please Try Again by restarting the application...");
```

```java
				}
			}
		}

		@Override
		public void destroy() {
			out.close();
		}
}
```

NewFlight.java→

```java
package com.simplilearn.web;

import java.io.IOException;
import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import com.simplilearn.dao.FlightDao;
import com.simplilearn.model.Flight;

@WebServlet("/NewFlight")
public class NewFlight extends HttpServlet {
        private static final long serialVersionUID = 1L;
        private static FlightDao flightDao;
        private static PrintWriter out;

        public void init() throws ServletException {
                flightDao = new FlightDao();
        }

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

        public void addNewFlight(HttpServletRequest request, HttpServletResponse response) throws IOException {
                RequestDispatcher requestDispatcher = request.getRequestDispatcher("AdminHome.jsp");
                out = response.getWriter();
                String message;

                Flight flight = new Flight();
                flight.setName(request.getParameter("name"));
                flight.setFromLocation(request.getParameter("fromLocation"));
                flight.setToLocation(request.getParameter("toLocation"));
                flight.setDeparture(request.getParameter("departure"));
                flight.setTime(request.getParameter("time"));
                flight.setPrice(Integer.parseInt(request.getParameter("price")));
                flight.setAvailableSeats(Integer.parseInt(request.getParameter("seats")));

                boolean validUserFlag = flightDao.addFlight(flight);

                if (validUserFlag) {
                        message = "<div align=\"center\"><p style=\"width: 30%; text-align: center; color: green; font-size: x-large; background-color: thistle;\">New Flight "
                                        + flight.getName() + " Added Successfully...</p></div>";
                        out.println(message);
                        try {
                                requestDispatcher.include(request, response);
                        } catch (ServletException e) {
                                System.out.println("Some Error occured while redirecting to AdminHome.jsp page...");
                                System.out.println("Please Try Again by restarting the application...");
                        }
                } else {
                        message = "<div align=\"center\"><p style=\"width: 30%; text-align: center; color: red; font-size: x-large; background-color: thistle;\">Not able to Add Flight "
                                        + flight.getName() + "</p></div>";
```

```java
                out.println(message);
                try {
                        requestDispatcher.include(request, response);
                } catch (ServletException e) {
                        System.out.println("Some Error occured while redirecting to AdminHome.jsp page...");
                        System.out.println("Please Try Again by restarting the application...");
                }
        }
}

@Override
public void destroy() {
        out.close();
}
}
```

FlightBooking.java→

```java
package com.simplilearn.web;

import java.io.IOException;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import com.simplilearn.dao.FlightDao;

@WebServlet("/FlightBooking")
public class FlightBooking extends HttpServlet {
        private static final long serialVersionUID = 1L;
        private static FlightDao flightDao;

        @Override
        public void init() throws ServletException {
                flightDao = new FlightDao();
        }

        @Override
        protected void service(HttpServletRequest request, HttpServletResponse response)
                        throws ServletException, IOException {
                System.out.println("Inside Service....");
                bookFlight(request, response);
        }

        @Override
        protected void doGet(HttpServletRequest request, HttpServletResponse response)
                        throws ServletException, IOException {
                String action = request.getServletPath();
                if (action == "/FlightBooking") {
                        bookFlight(request, response);
                        System.out.println("Inside deGet....");
                }
        }

        public void bookFlight(HttpServletRequest request, HttpServletResponse response)
                        throws IOException, ServletException {
                RequestDispatcher requestDispatcher = request.getRequestDispatcher("BookingStatus.jsp");

                boolean bookingSuccess = false;
                System.out.println("id from book flight 1 : " + request.getParameter("id"));
                if (request.getParameter("id") != null) {
                        Integer flightId = Integer.parseInt(request.getParameter("id"));
                        bookingSuccess = flightDao.bookSeats(flightId);
                        request.setAttribute("bookingStatus", bookingSuccess);
                        requestDispatcher.include(request, response);
                }
        }
}
```

CreateAccount.java→

```java
package com.simplilearn.web;

import java.io.IOException;
import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import com.simplilearn.dao.UserDao;
import com.simplilearn.model.UserCred;

@WebServlet("/CreateAccount")
public class CreateAccount extends HttpServlet {
        private static final long serialVersionUID = 1L;
        private static UserDao userDao;
        private static PrintWriter out;

        public void init() throws ServletException {
                userDao = new UserDao();
        }

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

        public void createNewAccount(HttpServletRequest request, HttpServletResponse response) throws IOException {
                RequestDispatcher requestDispatcher = request.getRequestDispatcher("UserLogin.jsp");
                out = response.getWriter();
                String message;

                UserCred userCred = new UserCred();
                userCred.setUserName(request.getParameter("email"));
                userCred.setPassword(request.getParameter("password"));
                userCred.setName(request.getParameter("name"));
                userCred.setPhone(request.getParameter("phone"));
                userCred.setAadhar(request.getParameter("aadhar"));
                boolean validUserFlag = userDao.saveUser(userCred);

                if (validUserFlag) {
                        message = "<div align=\"center\"><p style=\"width: 30%; text-align: center; color: green; font-size: x-large; background-color: thistle;\">User Account Created Successfully...</p></div>";
                        out.println(message);
                        try {
                                requestDispatcher.include(request, response);
                        } catch (ServletException e) {
                                System.out.println("Some Error occured while redirecting to UserLogin.jsp page...");
                                System.out.println("Please Try Again by restarting the application...");
                        }
                } else {
                        message = "<div align=\"center\"><p style=\"width: 30%; text-align: center; color: red; font-size: x-large; background-color: thistle;\">Not Able to Create New User Account... Please Try Again with Different User Name...</p></div>";
                        out.println(message);
                        try {
                                requestDispatcher.include(request, response);
                        } catch (ServletException e) {
```

```java
                                System.out.println("Some Error occured while redirecting to UserLogin.jsp page...");
                                System.out.println("Please Try Again by restarting the application...");
                        }
                }
                System.out.println();
        }

        @Override
        public void destroy() {
                out.close();
        }
}
```

```java
package com.simplilearn.web;

import java.io.IOException;
import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import com.simplilearn.dao.UserDao;
import com.simplilearn.model.UserCred;
import com.simplilearn.util.HibernateUtil;

@WebServlet("/AdminLogin")
public class AdminLogin extends HttpServlet {
	private static final long serialVersionUID = 1L;
	private static UserDao userDao;
	private static PrintWriter out;

	public void init() throws ServletException {
		userDao = new UserDao();
	}

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

	public void validateUser(HttpServletRequest request, HttpServletResponse response) throws IOException {
		RequestDispatcher requestDispatcher1 = request.getRequestDispatcher("AdminHome.jsp");
		RequestDispatcher requestDispatcher2 = request.getRequestDispatcher("AdminLogin.jsp");
		boolean validAdminFlag = false;
		String message;
		out = response.getWriter();

		UserCred userCred = new UserCred();
		userCred.setUserName(request.getParameter("email"));
		userCred.setPassword(request.getParameter("password"));

		if (userCred.getUserName().equals("admin@gmail.com")) {
			validAdminFlag = userDao.validateUser(userCred);
		}

		if (validAdminFlag) {
			try {
				if (HibernateUtil.newHttpSession == null) {
					HibernateUtil.newHttpSession = request.getSession();
					HibernateUtil.newHttpSession.setAttribute("email", userCred.getUserName());
				}else {
					HibernateUtil.newHttpSession = null;
					HibernateUtil.newHttpSession = request.getSession();
					HibernateUtil.newHttpSession.setAttribute("email", userCred.getUserName());
				}
				requestDispatcher1.include(request, response);
			} catch (ServletException e) {
				System.out.println("Some Error occured while redirecting to AdminHome.jsp page...");
				System.out.println("Please Try Again by restarting the application...");
			}
```

```java
			} else {
				message = "<div align=\"center\"><p style=\"width: 30%; text-align: center; color: red; font-size: x-large; background-color: thistle;\">Invalid Admin Email/Password...</p></div>";
				out.println(message);
				try {
					requestDispatcher2.include(request, response);
				} catch (ServletException e) {
					System.out.println("Some Error occured while redirecting to AdminLogin.jsp page...");
					System.out.println("Please Try Again by restarting the application...");
				}
			}
		}
	}

}
```

UI Layer:

web.xml →

```xml
<!DOCTYPE web-app PUBLIC
 "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
 "http://java.sun.com/dtd/web-app_2_3.dtd" >

<web-app>
  <display-name>Archetype Created Web Application</display-name>
  <servlet>
      <servlet-name>AdminLogin</servlet-name>
      <display-name>AdminLogin</display-name>
      <description></description>
      <servlet-class>com.simplilearn.web.AdminLogin</servlet-class>
  </servlet>
  <servlet>
      <servlet-name>CreateAccount</servlet-name>
      <display-name>CreateAccount</display-name>
      <description></description>
      <servlet-class>com.simplilearn.web.CreateAccount</servlet-class>
  </servlet>
  <servlet>
      <servlet-name>FlightBooking</servlet-name>
      <display-name>FlightBooking</display-name>
      <description></description>
      <servlet-class>com.simplilearn.web.FlightBooking</servlet-class>
  </servlet>
  <servlet>
      <servlet-name>NewFlight</servlet-name>
      <display-name>NewFlight</display-name>
      <description></description>
      <servlet-class>com.simplilearn.web.NewFlight</servlet-class>
  </servlet>
  <servlet>
      <servlet-name>PasswordReset</servlet-name>
      <display-name>PasswordReset</display-name>
      <description></description>
      <servlet-class>com.simplilearn.web.PasswordReset</servlet-class>
  </servlet>
  <servlet>
      <servlet-name>SearchFlight</servlet-name>
      <display-name>SearchFlight</display-name>
      <description></description>
      <servlet-class>com.simplilearn.web.SearchFlight</servlet-class>
  </servlet>
    <servlet>
      <servlet-name>UserLogin</servlet-name>
      <display-name>UserLogin</display-name>
      <description></description>
      <servlet-class>com.simplilearn.web.UserLogin</servlet-class>
  </servlet>
</web-app>
```

AdminHome.jsp →

```jsp
<%@page import="com.simplilearn.util.HibernateUtil"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>

<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Admin Home</title>
</head>

<body background="/FlyAway/bgImg.jpg">
    <%
        System.out.println(HibernateUtil.newHttpSession);
        if (HibernateUtil.newHttpSession == null) {
            response.sendRedirect("AdminLogin.jsp");
        } else {
    %>

    <br>

    <div align="center">
        <font size="7" style="color: brown;"><b>Welcome to Fly Away</b></font>
    </div>

    <br>

    <div align="right">
        <p style="text-align: center; width: 25%; border: 1px solid black;
background-color: wheat; font-size: larger;">
            <b>User: </b> <%=HibernateUtil.newHttpSession.getAttribute("email")%>
        </p>
        <a href="LogOut.jsp">Log Out</a>
    </div>

    <br>
    <br>
    <br>
    <br>
    <br>

    <div align="center">
        <div style="width: 20%; border: 1px solid black; background-color:
rosybrown;">
            <a href="NewFlight.jsp">Add New Flight</a>
            <br>
            <a href="SearchFlight.jsp">Search for a Flight</a>
        </div>
    </div>
    <%
        }
    %>
</body>
</html>
```

AdminLogin.jsp →

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Admin Login</title>
</head>
<body background="/FlyAway/bgImg.jpg">
    <div align="center">
        <font size="7" style="color: brown;"><b>FlyAway</b></font>
    </div>

    <br>
    <br>
    <br>

    <form method="post" action="AdminLogin">
        <table align="center"
            style="width: 25%; height: 20%; background-color: rosybrown; border:
1px solid black;">
            <tr>
                <td colspan=3>
                    <center>
                        <font size=5><b>Admin Login</b></font>
                    </center>
                </td>
            </tr>
            <tr>
                <td><label for="email">Email :</label></td>
                <td><input type="email" name="email" pattern="[A-Za-z0-
9]*[@][a-z]*[.](com|in|org)" id="email"
                        placeholder="Enter Email in format 'user@gmail.com'"
size="35" required /></td>
            </tr>
            <tr>
                <td><label for="password">Password :</label></td>
                <td><input type="password" name="password" id="password"
size="35" required></td>
            </tr>
            <tr>
                <td align="right">
                    <button type="submit">Submit</button>
                </td>
                <td>
                    <button type="reset">Reset</button>
                </td>
            </tr>
            <tr>
                <td colspan="3" align="right">
                    <a href="PasswordReset.jsp">Forgot Password</a>
                </td>
            </tr>
        </table>
    </form>
</body>
</html>
```

AvailableFlights.jsp →

```jsp
<%@page import="com.simplilearn.util.HibernateUtil"%>
<%@page import="java.util.List"%>
<%@page import="com.simplilearn.model.Flight"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<html>

<head>
<title>Available Flights</title>
<style>
table, th, thead, tbody, td {
    border: 2px solid black;
    border-collapse: collapse;
}
</style>
</head>

<body background="/FlyAway/bgImg.jpg">
    <%
        if (HibernateUtil.newHttpSession == null) {
            response.sendRedirect("index.jsp");
        } else {
            List<Flight> flightList = (List)
HibernateUtil.newHttpSession.getAttribute("list");
            if ((flightList != null) && (!flightList.isEmpty())) {
    %>

    <div align="center">
        <font size="7" style="color: brown;"><b>FlyAway</b></font>
    </div>

    <div align="right">
        <p
            style="text-align: center; width: 25%; border: 1px solid black;
background-color: wheat; font-size: larger;">
            <b>User: </b> <%=HibernateUtil.newHttpSession.getAttribute("email")%>
        </p>
        <a href="LogOut.jsp">Log Out</a>
    </div>

    <br>
    <br>
    <br>
    <br>
    <br>

    <center>
        <div style="width: 80%; height: 50%; background-color: rosybrown; border:
1px solid black;">
            <h3 class="text-center" style="font-size: x-large;">List of
Flights</h3>
            <table width="80%" border="0" cellspacing="2" cellpadding="5">
                <thead>
                    <tr>
                        <th>Flight Id</th>
                        <th>Flight Name</th>
                        <th>Source</th>
                        <th>Destination</th>
                        <th>Departure</th>
                        <th>Time</th>
                        <th>Fare</th>
                        <th>Seats Available</th>
                        <th>Action</th>
                    </tr>
```

```jsp
                        </thead>
                        <tbody>
                        <%
                                List<Flight> flights = (List)
request.getAttribute("list");
                        %>
                        <%
                                for (Flight flight : flights) {
                        %>
                        <tr>
                                <td><%=flight.getId()%></td>
                                <td><%=flight.getName()%></td>
                                <td><%=flight.getFromLocation()%></td>
                                <td><%=flight.getToLocation()%></td>
                                <td><%=flight.getDeparture()%></td>
                                <td><%=flight.getTime()%></td>
                                <td><%=flight.getPrice()%></td>
                                <td><%=flight.getAvailableSeats()%></td>
                                <td><a
href="FlightBooking?id=<%=flight.getId()%>">Book
                                        Flight</a></td>
                        </tr>
                        <%
                                }
                        %>
                        </tbody>
                </table>
            </div>
        </center>
        <%
                } else {
        %>
        <center>
                <p style="width: 30%; text-align: center; color: red; font-size: x-large;
background-color: thistle;">Please Search for Flights</p>
        </center>

        <br>
        <br>

        <div align="center">
                <a href="SearchFlight.jsp">Search Flights</a>
        </div>
        <%
                }
                }
        %>
</body>
</html>
```

BookingStatus.jsp →

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
     pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>User Login</title>
</head>
<body background="/FlyAway/bgImg.jpg">
    <div align="center">
        <font size="7" style="color: brown;"><b>FlyAway</b></font>
    </div>

    <br>
    <br>
    <br>
    <br>
    <br>
    <br>

    <form method="post" action="UserLogin">
        <table align="center" style="width: 25%; height: 20%; background-color:
rosybrown; border: 1px solid black;">
            <tr>
                <td colspan=3 align="center"><font size=5><b>User
Login</b></font></td>
            </tr>
            <tr>
                <td><label for="email">Email :</label></td>
                <td><input type="email" name="email" pattern="[A-Za-z0-
9]*[@][a-z]*[.](com|in|org)" id="email"
                        placeholder="abc@gmail.com" size="35" required /></td>
            </tr>
            <tr>
                <td><label for="password">Password :</label></td>
                <td><input type="password" id="password" name="password"
size="35" required></td>
            </tr>
            <tr>
                <td align="right">
                    <button type="submit">Submit</button>
                </td>
                <td>
                    <button type="reset">Reset</button>
                </td>
            </tr>
            <tr>
                <td colspan="3" align="right"><a
href="CreateAccount.jsp">Create Account</a></td>
            </tr>
        </table>
    </form>
</body>
</html>
```

CreateAccount.jsp →

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
      pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Create Account</title>
</head>
<body background="/FlyAway/bgImg.jpg">
      <div align="center">
            <font size="7" style="color: brown;"><b>FlyAway</b></font>
      </div>

      <br>
      <br>
      <br>
      <br>
      <br>
      <br>

      <form method="post" action="CreateAccount">
            <table align="center"
                  style="width: 30%; height: 30%; background-color: rosybrown; border:
1px solid black;">
                  <tr>
                        <td colspan=3>
                              <center>
                                    <font size=5><b>Create New Account</b></font>
                              </center>
                        </td>
                  </tr>
                  <tr></tr>
                  <tr></tr>
                  <tr></tr>
                  <tr>
                        <td align="right"><label for="email">Email :</label></td>
                        <td><input type="email" name="email" pattern="[A-Za-z0-
9]*[@][a-z]*[.](com|in|org)" id="email"
                              placeholder="Enter Email in format 'user@gmail.com'"
size="35" required /></td>
                  </tr>
                  <tr>
                        <td align="right"><label for="password">Password :</label></td>
                        <td><input type="password" id="password" name="password"
size="35" placeholder="Enter Password" required></td>
                  </tr>
                  <tr>
                        <td align="right"><label for="name">Name :</label></td>
                        <td><input type="text" id="name" name="name" size="35"
placeholder="Enter Your Name" required></td>
                  </tr>
                  <tr>
                        <td align="right"><label for="phone">Phone No. :</label></td>
                        <td><input type="text" id="phone" name="phone" size="35"
pattern="[0-9]{10}" maxlength="10"
                              placeholder="Enter 10 Digit Phone No." required></td>
                  </tr>
                  <tr>
                        <td align="right"><label for="aadhar">Aadhar No. :</label></td>
                        <td><input type="text" id="aadhar" name="aadhar" size="35"
pattern="[0-9]{12}" maxlength="12"
                              placeholder="Enter 12 Digit Aadhar No." required></td>
                  </tr>
```

```html
            <tr>
                <td align="right">
                    <button type="submit">Submit</button>
                </td>
                <td>
                    <button type="reset">Reset</button>
                </td>
            </tr>
        </table>
    </form>
</body>
</html>
```

index.jsp →

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Home Page</title>
</head>
<body background="/FlyAway/bgImg.jpg">

    <br>
    <br>
    <br>
    <br>

    <div align="center">
        <font size="7" style="color: brown;"><b>Welcome to Fly Away</b></font>
    </div>

    <br>
    <br>
    <br>
    <br>
    <br>
    <br>
    <br>
    <br>

    <center>
        <div style="width: 15%; border: 1px solid black; background-color:
rosybrown;">
            <table>
                <tr>
                    <td rowspan="2"><font size="4"><b>Login as
:</b></font></td>
                    <td style="width: 50%;">
                        <div align="center">
                            <a href="UserLogin.jsp">User</a>
                        </div>
                    </td>
                </tr>
                <tr>
                    <td style="width: 50%;">
                        <div align="center">
                            <a href="AdminLogin.jsp">Admin</a>
                        </div>
                    </td>
                </tr>
            </table>
        </div>
    </center>
</body>
</html>
```

LogOut.jsp →

```jsp
<%@page import="com.simplilearn.util.HibernateUtil"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Booking Status</title>
</head>
<body background="/FlyAway/bgImg.jpg">
    <div align="center">
        <font size="7" style="color: brown;"><b>FlyAway</b></font>
    </div>

    <br>
    <br>
    <br>
    <br>
    <br>
    <br>

    <%
        if (HibernateUtil.newHttpSession != null) {
            HibernateUtil.newHttpSession.invalidate();
            HibernateUtil.newHttpSession = null;

        } else {

        }
    %>

    <div style="text-align: center;">
        <h1 style="color: green;">
            <b>Logged Out Successfully...</b>
        </h1>
        <br> <a href="index.jsp">Go to Login Page</a>
    </div>
</body>
</html>
```

NewFlight.jsp →

```jsp
<%@page import="com.simplilearn.util.HibernateUtil"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>

<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>New Flight</title>
</head>

<body background="/FlyAway/bgImg.jpg">
    <%
        if (HibernateUtil.newHttpSession == null) {
            response.sendRedirect("AdminLogin.jsp");
        } else {
            if
(HibernateUtil.newHttpSession.getAttribute("email").equals("admin@gmail.com")) {
    %>

    <div align="center">
        <font size="7" style="color: brown;"><b>FlyAway</b></font>
    </div>

    <div align="right">
        <p style="text-align: center; width: 25%; border: 1px solid black;
background-color: wheat; font-size: larger;">
            <b>User: </b> <%=HibernateUtil.newHttpSession.getAttribute("email")%>
        </p>
        <a href="LogOut.jsp">Log Out</a>
    </div>

    <br>
    <br>
    <br>
    <br>
    <br>
    <br>

    <form method="post" action="NewFlight">
        <table align="center" style="width: 25%; height: 30%; background-color:
rosybrown; border: 1px solid black;">
            <tr>
                <td colspan=3 style="text-align: center;"><font
size=5><b>Insert
                                New Flight Details</b></font></td>
            </tr>
            <tr>
                <td align="right"><label for="name">Name :</label></td>
                <td><input type="text" id="name" name="name" placeholder="Enter
Name of Flight" required /></td>
            </tr>
            <tr>
                <td align="right"><label for="from">From :</label></td>
                <td><select name="fromLocation" id="from" required>
                        <option value="">Select</option>
                        <option value="Mumbai">Mumbai</option>
                        <option value="Delhi">Delhi</option>
                        <option value="Pune">Pune</option>
                        <option value="Nagpur">Nagpur</option>
                        <option value="Hyderabad">Hyderabad</option>
                        <option value="Mysore">Mysore</option>
                        <option value="Bangluru">Bangluru</option>
```

```html
                                <option value="Chennai">Chennai</option>
                                <option value="Amritsar">Amritsar</option>
                        </select></td>
                </tr>
                <tr>
                        <td align="right"><label for="to">To :</label></td>
                        <td><select name="toLocation" id="to" required>
                                <option value="">Select</option>
                                <option value="Mumbai">Mumbai</option>
                                <option value="Delhi">Delhi</option>
                                <option value="Pune">Pune</option>
                                <option value="Nagpur">Nagpur</option>
                                <option value="Hyderabad">Hyderabad</option>
                                <option value="Mysore">Mysore</option>
                                <option value="Bangluru">Bangluru</option>
                                <option value="Chennai">Chennai</option>
                                <option value="Amritsar">Amritsar</option>
                        </select></td>
                </tr>
                <tr>
                        <td align="right"><label for="departure">Departure
:</label></td>
                        <td><input type="date" id="departure" name="departure" required
/>
                        </td>
                </tr>
                <tr>
                        <td align="right"><label for="time">Time :</label></td>
                        <td><input type="time" id="time" name="time" placeholder="Enter
Time of Flight" required /></td>
                </tr>
                <tr>
                        <td align="right"><label for="price">Price :</label></td>
                        <td><input type="number" id="price" name="price"
placeholder="Enter Amount of Flight Fare" required /></td>
                </tr>
                <tr>
                        <td align="right"><label for="seats">Seat Capacity
:</label></td>
                        <td><input type="number" id="seats" name="seats"
placeholder="Enter Seat Capacity of Flight" required /></td>
                </tr>
                <tr>
                        <td align="right">
                                <button type="submit">Submit</button>
                        </td>
                        <td>
                                <button type="reset">Reset</button>
                        </td>
                </tr>
        </table>
    </form>

    <%
        } else {
    %>

    <div align="center">
        <p style="width: 70%; text-align: center; color: red; font-size: x-large;
background-color:thistle;">
                This Functionality is only Applicable for Admin...
                <br>
                Please Login as Admin...
                <br>
                <a href="AdminLogin.jsp">Go To Admin Login Page</a>
        </p>
    </div>
```

```
        <%
                }
                }
        %>
</body>
</html>
```

PasswordReset.jsp →

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
       pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Password Reset</title>
</head>
<body background="/FlyAway/bgImg.jpg">
       <div align="center">
             <font size="7" style="color: brown;"><b>FlyAway</b></font>
       </div>

       <br>
       <br>
       <br>
       <br>
       <br>
       <br>

       <form method="post" action="PasswordReset">
             <table align="center"
                    style="width: 30%; height: 20%; background-color: rosybrown; border:
1px solid black;">
                    <tr>
                          <td colspan=3>
                                <center>
                                      <font size=5><b>Reset Password</b></font>
                                </center>
                          </td>
                    </tr>
                    <tr>
                          <td><label for="email">Email :</label></td>
                          <td><input type="email" name="email" pattern="[A-Za-z0-
9]*[@][a-z]*[.](com|in|org)" id="email"
                                placeholder="abc@gmail.com" size="35" required /></td>
                    </tr>
                    <tr>
                          <td><label for="password">New Password :</label></td>
                          <td><input type="password" id="password" name="password"
size="35" required></td>
                    </tr>
                    <tr>
                          <td align="right">
                                <button type="submit">Submit</button>
                          </td>
                          <td>
                                <button type="reset">Reset</button>
                          </td>
                    </tr>
             </table>
       </form>
</body>
</html>
```

```jsp
<%@page import="com.simplilearn.util.HibernateUtil"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
	pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Search Flight</title>
</head>
<body background="/FlyAway/bgImg.jpg">
	<%
		if (HibernateUtil.newHttpSession == null) {
			response.sendRedirect("index.jsp");
		} else {
	%>
	<div align="center">
		<font size="7" style="color: brown;"><b>Welcome to Fly Away</b></font>
	</div>

	<div align="right">
		<p style="text-align: center; width: 25%; border: 1px solid black;
background-color: wheat; font-size: larger;">
			<b>User: </b> <%=HibernateUtil.newHttpSession.getAttribute("email")%>
		</p>
		<a href="LogOut.jsp">Log Out</a>
	</div>

	<br>
	<br>
	<br>

	<form method="post" action="SearchFlight">
		<table align="center"
			style="width: 30%; height: 35%; background-color: rosybrown; border:
1px solid black;">
			<tr>
				<td colspan=3>
					<center>
						<font size=5><b>Search Flight</b></font>
					</center>
				</td>
			</tr>
			<tr>
				<td align="right"><label for="from">From :</label></td>
				<td><select name="fromLocation" id="from">
						<option value="">Select</option>
						<option value="Mumbai">Mumbai</option>
						<option value="Delhi">Delhi</option>
						<option value="Pune">Pune</option>
						<option value="Nagpur">Nagpur</option>
						<option value="Hyderabad">Hyderabad</option>
						<option value="Mysore">Mysore</option>
						<option value="Bangluru">Bangluru</option>
						<option value="Chennai">Chennai</option>
						<option value="Amritsar">Amritsar</option>
				</select></td>
			</tr>
			<tr>
				<td align="right"><label for="to">To :</label></td>
				<td><select name="toLocation" id="to">
						<option value="">Select</option>
						<option value="Mumbai">Mumbai</option>
						<option value="Delhi">Delhi</option>
```

```html
                          <option value="Pune">Pune</option>
                          <option value="Nagpur">Nagpur</option>
                          <option value="Hyderabad">Hyderabad</option>
                          <option value="Mysore">Mysore</option>
                          <option value="Bangluru">Bangluru</option>
                          <option value="Chennai">Chennai</option>
                          <option value="Amritsar">Amritsar</option>
                  </select></td>
              </tr>
              <tr>
                  <td align="right"><label for="departure">Departure
:</label></td>
                  <td><input type="date" id="departure" name="departure" /></td>
              </tr>
              <tr>
                  <td align="right"><label for="travellers">Travellers :</label>
                  </td>
                  <td><input type="number" id="travellers" name="travellers"
placeholder="Enter No. of travellers" /></td>
              </tr>
              <tr>
                  <td align="right">
                      <button type="submit">Submit</button>
                  </td>
                  <td>
                      <button type="reset">Reset</button>
                  </td>
              </tr>
          </table>
      </form>
      <%
          }
      %>
</body>
</html>
```

UserLogin.jsp →

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>User Login</title>
</head>
<body background="/FlyAway/bgImg.jpg">
    <div align="center">
        <font size="7" style="color: brown;"><b>FlyAway</b></font>
    </div>

    <br>
    <br>
    <br>
    <br>
    <br>
    <br>

    <form method="post" action="UserLogin">
        <table align="center" style="width: 25%; height: 20%; background-color:
rosybrown; border: 1px solid black;">
            <tr>
                <td colspan=3 align="center"><font size=5><b>User
Login</b></font></td>
            </tr>
            <tr>
                <td><label for="email">Email :</label></td>
                <td><input type="email" name="email" pattern="[A-Za-z0-
9]*[@][a-z]*[.](com|in|org)" id="email"
                    placeholder="abc@gmail.com" size="35" required /></td>
            </tr>
            <tr>
                <td><label for="password">Password :</label></td>
                <td><input type="password" id="password" name="password"
size="35" required></td>
            </tr>
            <tr>
                <td align="right">
                    <button type="submit">Submit</button>
                </td>
                <td>
                    <button type="reset">Reset</button>
                </td>
            </tr>
            <tr>
                <td colspan="3" align="right"><a
href="CreateAccount.jsp">Create Account</a></td>
            </tr>
        </table>
    </form>
</body>
</html>
```

DeletionStatus.jsp →

```jsp
<%@page import="com.simplilearn.util.HibernateUtil"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Booking Status</title>
</head>
<body background="/FlyAway/bgImg.jpg">
    <%
        if (HibernateUtil.newHttpSession == null) {
            response.sendRedirect("index.jsp");
        } else {
            if (HibernateUtil.newHttpSession.getAttribute("email") != null) {
                if
(HibernateUtil.newHttpSession.getAttribute("email").equals("admin@gmail.com")) {
    %>

    <div align="center">
        <font size="7" style="color: brown;"><b>FlyAway</b></font>
    </div>

    <div align="right">
        <p
            style="text-align: center; width: 25%; border: 1px solid black;
background-color: wheat; font-size: larger;">
            <b>User: </b>
            <%=HibernateUtil.newHttpSession.getAttribute("email")%>
        </p>
        <a href="LogOut.jsp">Log Out</a>
    </div>

    <div style="text-align: center;">
        <%
            Boolean deletionStatus = (Boolean)
request.getAttribute("deletionStatus");
            if (deletionStatus) {
        %>
        <h1 style="color: green;">
            <font size="7"><b>Flight With Flight Id
<%=request.getAttribute("deletedflightId")%>
                        is Successfully Deleted
            </b></font>
        </h1>
        <br>
        <%
            } else {
        %>

        <h1 style="color: red;">
            <font size="7"><b>Sorry... Flight Deletion Failed...</b></font> <br>
        </h1>

        <%
            }
        %>
        <div align="center">
            <p
                style="text-align: center; width: 25%; border: 1px solid black;
background-color: rosybrown; font-size: larger;">
                <a href="AdminHome.jsp">Go to Home Page</a>
            </p>
```

```
            </div>
        </div>

        <%
                }
                }
                }
        %>
</body>
</html>
```

ViewAllFlights.jsp →

```jsp
<%@page import="com.simplilearn.util.HibernateUtil"%>
<%@page import="java.util.List"%>
<%@page import="com.simplilearn.model.Flight"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<html>

<head>
<title>All Flights</title>
<style>
table, th, thead, tbody, td {
    border: 2px solid black;
    border-collapse: collapse;
}
</style>
</head>

<body background="/FlyAway/bgImg.jpg">
    <%
        if (HibernateUtil.newHttpSession == null) {
            response.sendRedirect("index.jsp");
        } else {
            if (HibernateUtil.newHttpSession.getAttribute("email") != null) {
                if
(HibernateUtil.newHttpSession.getAttribute("email").equals("admin@gmail.com")) {
                    List<Flight> allFlightsList = (List)
HibernateUtil.newHttpSession.getAttribute("allFlights");
                    if ((allFlightsList != null) &&
(!allFlightsList.isEmpty())) {
    %>

    <div align="center">
        <font size="7" style="color: brown;"><b>FlyAway</b></font>
    </div>

    <div align="right">
        <p
            style="text-align: center; width: 25%; border: 1px solid black;
background-color: wheat; font-size: larger;">
            <b>User: </b>
            <%=HibernateUtil.newHttpSession.getAttribute("email")%>
        </p>
        <a href="LogOut.jsp">Log Out</a>
    </div>

    <br>
    <br>
    <br>
    <br>
    <br>

    <center>
        <div
            style="width: 80%; height: 50%; background-color: rosybrown; border:
1px solid black;">
            <h3 class="text-center" style="font-size: x-large;">List of All
                Flights</h3>
            <table width="80%" border="0" cellspacing="2" cellpadding="5">
                <thead>
                    <tr>
                        <th>Flight Id</th>
                        <th>Flight Name</th>
                        <th>Source</th>
                        <th>Destination</th>
```

```jsp
                        <th>Departure</th>
                        <th>Time</th>
                        <th>Fare</th>
                        <th>Seats Available</th>
                        <th>Delete Flight</th>
                </tr>
            </thead>
            <tbody>
                <%
                        List<Flight> allFlights = (List)
request.getAttribute("allFlights");
                %>
                <%
                        for (Flight flight : allFlights) {
                %>
                <tr>
                        <td><%=flight.getId()%></td>
                        <td><%=flight.getName()%></td>
                        <td><%=flight.getFromLocation()%></td>
                        <td><%=flight.getToLocation()%></td>
                        <td><%=flight.getDeparture()%></td>
                        <td><%=flight.getTime()%></td>
                        <td><%=flight.getPrice()%></td>
                        <td><%=flight.getAvailableSeats()%></td>
                        <td><a
href="DeleteFlight?id=<%=flight.getId()%>">Delete
                                Flight</a></td>
                </tr>
                <%
                        }
                %>
            </tbody>
        </table>
        </div>
    <div style="width: 30%; text-align: center; color: red; font-size: x-large;
background-color: thistle;">
            <a href="AdminHome.jsp">Go To Home Page</a>
    </div>
    </center>
    <%
            } else {
    %>
    <center>
            <p
                    style="width: 30%; text-align: center; color: red; font-size: x-
large; background-color: thistle;">
                    No Flights Available to display<br>Please Try Again by Adding
                    Some Flights...
            </p>

    </center>

    <br>
    <br>

    <div align="center">
            <a href="AdminHome.jsp">Go To Home Page</a>
    </div>
    <%
            }
                    }
                }
            }
    %>
</body>
</html>
```

Image