

Project – Java Core Back End (Phase-3)

Source Code AeroSpace

Create maven project and inside pom.xml write this code-

```
<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>AeroplaneBooking</groupId>
  <artifactId>AeroplaneBooking</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <packaging>war</packaging>
  <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>
  <dependencies>
    <!-- https://mvnrepository.com/artifact/org.hibernate/hibernate-core -->
    <dependency>
      <groupId>org.hibernate</groupId>
      <artifactId>hibernate-core</artifactId>
      <version>5.6.7.Final</version>
    </dependency>

    <!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java -->
    <dependency>
      <groupId>mysql</groupId>
      <artifactId>mysql-connector-java</artifactId>
```

```

        <version>8.0.28</version>
    </dependency>

    <dependency>
        <groupId>javax.servlet.jsp</groupId>
        <artifactId>javax.servlet.jsp-api</artifactId>
        <version>2.3.3</version>
        <scope>provided</scope>
    </dependency>
    <!-- https://mvnrepository.com/artifact/javax.servlet/javax.servlet-api -->
    <dependency>
        <groupId>javax.servlet</groupId>
        <artifactId>javax.servlet-api</artifactId>
        <version>3.1.0</version>
        <scope>provided</scope>
    </dependency>
    </dependencies>
</project>

```

Add dependency of javax.servlet.jsp-api , hibernate core,javax.servlet-api and mysql connector dependency in **pom.xml**(Project object model.xml).

Driver class for Aerospace Code-

Package-com.simplilearn.aeroplane.util

Class-HibernateUtil.java

```

package com.simplilearn.aeroplane.util;

import java.util.Properties;

import org.hibernate.SessionFactory;
import org.hibernate.boot.registry.StandardServiceRegistryBuilder;
import org.hibernate.cfg.Configuration;
import org.hibernate.cfg.Environment;
import org.hibernate.service.ServiceRegistry;

import com.simplilearn.aeroplane.dto.RegisterUser;
import com.simplilearn.aeroplane.dto.SeatBooked;
import com.simplilearn.aeroplane.dto.TravelData;

```

```

public class HibernateUtil {
private static SessionFactory factory;

    public static SessionFactory getSessionFactory()
    {
        if(factory==null) {

            Configuration configuration=new Configuration();

            Properties properties=new Properties();
            properties.setProperty(Environment.DRIVER, "com.mysql.cj.jdbc.Driver");
            properties.setProperty(Environment.URL,
"jdbc:mysql://localhost:3306/exercise");
            properties.setProperty(Environment.USER, "root");
            properties.setProperty(Environment.PASS, "Chemistry22@");
            properties.setProperty(Environment.DIALECT,
"org.hibernate.dialect.MySQL8Dialect");

            //DATABASE Specific connectivity property
            properties.setProperty(Environment.SHOW_SQL, "true");
            properties.setProperty(Environment.HBM2DDL_AUTO, "update");

            //properties need to confogure into configuration
            configuration.setProperties(properties);

            //class that holds mapping --
configuration.addAnnotatedClass(Student.class);
            configuration.addAnnotatedClass(RegisterUser.class);
            configuration.addAnnotatedClass(TravelData.class);
            configuration.addAnnotatedClass(SeatBooked.class);

            ServiceRegistry registry=new
StandardServiceRegistryBuilder().applySettings(configuration.getProperties()).bui
ld();

            factory=configuration.buildSessionFactory(registry);

            return factory;

        }
        return factory;
    }
}

```

Package-com.simplilearn.aeroplane.dao

Class-AeroplaneDaoImpl.java

```
package com.simplilearn.aeroplane.dao;

import java.util.HashSet;
import java.util.LinkedHashSet;

import java.util.Set;

import javax.persistence.TypedQuery;

import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.Transaction;

import com.simplilearn.aeroplane.dto.RegisterUser;
import com.simplilearn.aeroplane.dto.SeatBooked;
import com.simplilearn.aeroplane.dto.TravelData;
import com.simplilearn.aeroplane.util.HibernateUtil;

public class AeroplaneDaoImpl {

    private SessionFactory factory;
    private String username=null;
    private String password=null;
    private String date=null;
    private String src=null;
    private String dest=null;
    private int noperson=0;

    public AeroplaneDaoImpl() {
        factory=HibernateUtil.getSessionFactory();
    }

    public Integer addRegisteredUser(RegisterUser user) {

        Session session=factory.openSession();
        Transaction txn=session.beginTransaction();
        Integer seqNo=(Integer)session.save(user);
        txn.commit();
        session.close();
    }
}
```

```

        return seqNo;
    }
    public Integer addTravelData(TravelData travelData)
    {
        Session session=factory.openSession();
        Transaction txn=session.beginTransaction();
        Integer id =(Integer)session.save(travelData);
        txn.commit();
        session.close();
        return id;
    }
    public Integer addSeatBookedData(SeatBooked seatBooked)
    {
        Session session=factory.openSession();
        Transaction txn=session.beginTransaction();
        Integer id =(Integer)session.save(seatBooked);
        txn.commit();
        session.close();
        return id;
    }

    public void getUserPass(String user,String pass)//its set method named get
    {
        username=user;
        password=pass;
    }

    public void setTravelDetails(String dt, String s,String d,int nop)
    {
        date=dt;
        src=s;
        dest=d;
        noperson=nop;
    }

    public String getUser()
    {
        return username;
    }

    public String getPassword()
    {

```

```

        return password;
    }

    public boolean checkUsernameAvailable(String username)
    {
        boolean isAvail=false;
        String uname=null;
        Set<RegisterUser> results;
        Session session=factory.openSession();
        String hql="From RegisterUser Where username='"+username+"'";
        TypedQuery<RegisterUser> query=session.createQuery(hql);
        results=new LinkedHashSet<RegisterUser>(query.getResultList());
        for(RegisterUser user:results )
            uname=user.getUsername();
        if(username.equals(uname))
            isAvail=true;
        session.close();
        return isAvail;
    }

    public boolean checkAlreadyRegistered(String username,String password)
    {
        boolean isAlreadyAvail=false;
        String uname=null;String pwd=null;
        Set<RegisterUser> results;
        Session session=factory.openSession();
        String hql="From RegisterUser Where username='"+username+"' AND
password='"+password+"'";
        TypedQuery<RegisterUser> query=session.createQuery(hql);
        results=new LinkedHashSet<RegisterUser>(query.getResultList());
        for(RegisterUser user:results )
            uname=user.getUsername();
        for(RegisterUser user:results )
            pwd=user.getPassword();
        if(username.equals(uname)&& password.equals(pwd))
            isAlreadyAvail=true;
        session.close();
        return isAlreadyAvail;
    }

    public void updatePasswordAdmin(String username,String password)
    {
        Set<RegisterUser> results;int seqNoo=0;
        Session session=factory.openSession();
        Transaction txn=session.beginTransaction();

```

```

        String hql="From RegisterUser Where username='"+username+"'";
        TypedQuery<RegisterUser> query=session.createQuery(hql);
        results=new LinkedHashSet<RegisterUser>(query.getResultList());
        for(RegisterUser user:results )
            seqNoo=user.getSeqNo();
        System.out.println(seqNoo);
        System.out.println(seqNoo);
        RegisterUser user1=session.get(RegisterUser.class, seqNoo);
        user1.setPassword(password);
        session.update(user1);
        txn.commit();
        session.close();
    }

    public void updateSeats(int Aid,int seatsLeft)
    {
        Set<TravelData> results;
        Session session=factory.openSession();
        Transaction txn=session.beginTransaction();
        String hql="From TravelData Where Id='"+Aid+"'";
        TypedQuery<TravelData> query=session.createQuery(hql);
        results=new LinkedHashSet<TravelData>(query.getResultList());
        TravelData details=session.get(TravelData.class, Aid);
        details.setNoOfPerson(seatsLeft);
        session.update(details);
        txn.commit();
        session.close();
        System.out.println(details);
    }

    public Set<RegisterUser> getAllUser()
    {
        Set<RegisterUser> allData;
        Session session=factory.openSession();
        String hql="from RegisterUser";
        TypedQuery<RegisterUser> query=session.createQuery(hql);
        allData=new LinkedHashSet<RegisterUser>(query.getResultList());

        session.close();
        return allData;
    }

    public Set<TravelData> getAllFlight()
    {

```

```

        Set<TravelData> allData;
        Session session=factory.openSession();
        String hql="from TravelData";
        TypedQuery<TravelData> query=session.createQuery(hql);
        allData=new LinkedHashSet<TravelData>(query.getResultList());

        session.close();
        return allData;
    }

    public Set<TravelData> getAllTravelDetails(String date, String source,String
destination)
    {
        Set<TravelData> allData;
        Session session=factory.openSession();
        String hql="from TravelData where Date_Of_Travel='"+date+"' AND
Source='"+source+"' AND Destination='"+destination+"'";
        TypedQuery<TravelData> query=session.createQuery(hql);
        allData=new HashSet<TravelData>(query.getResultList());
        System.out.println(allData);
        System.out.println(allData);
        session.close();
        return allData;
    }

    public Set<TravelData> getAllTravelConfirmDetails(int Aid)
    {
        Set<TravelData> allData;
        Session session=factory.openSession();
        String hql="from TravelData where Id='"+Aid+"'";
        TypedQuery<TravelData> query=session.createQuery(hql);
        allData=new HashSet<TravelData>(query.getResultList());
        System.out.println(allData);
        System.out.println(allData);
        session.close();
        return allData;
    }

    public int getAvailableSeatsFlight(String date, String source,String
destination)
    {
        int seatsAvail=0;
        Set<TravelData> allData;
        Session session=factory.openSession();

```



```

        String hql="from TravelData where Date_Of_Travel='"+date+"' AND
Source='"+source+"' AND Destination='"+destination+"'";
        TypedQuery<TravelData> query=session.createQuery(hql);
        allData=new HashSet<TravelData>(query.getResultList());

        for(TravelData data:allData)
            seatsAvail=data.getNoOfPerson();
        System.out.println(seatsAvail);
        System.out.println(seatsAvail);
        session.close();
        return seatsAvail;
    }

    public Set<TravelData> getAvailableSeats(String date, String source,String
destination)
    {
        Set<TravelData> allData;
        Session session=factory.openSession();
        String hql="from TravelData where Date_Of_Travel='"+date+"' AND
Source='"+source+"' AND Destination='"+destination+"'";
        TypedQuery<TravelData> query=session.createQuery(hql);
        allData=new HashSet<TravelData>(query.getResultList());

        session.close();
        return allData;
    }

    public Set<TravelData> getConfirmDetails(int id)
    {
        Set<TravelData> allData;
        Session session=factory.openSession();
        String hql="from TravelData where Id="+id;
        TypedQuery<TravelData> query=session.createQuery(hql);
        allData=new HashSet<TravelData>(query.getResultList());

        session.close();
        return allData;
    }
}

```

Package-com.simplilearn.aeroplane.dto

Class-RegisterUser.java

```
package com.simplilearn.aeroplane.dto;

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="User_Registered")
public class RegisterUser {

    @Id
    @Column(name="SNo")
    @GeneratedValue(strategy=GenerationType.SEQUENCE)
    private int seqNo;

    @Column(name="Username")
    private String username;

    @Column(name="Fname")
    private String fname;

    @Column(name="Lname")
    private String lname;

    @Column(name="Name")
    private String name;

    @Column(name="Age")
    private int age;

    @Column(name="Password")
    private String password;

    public int getSeqNo() {
        return seqNo;
    }
    public void setSeqNo(int seqNo) {
        this.seqNo = seqNo;
    }
    public String getFname() {
```

```
        return fname;
    }
    public void setFname(String fname) {
        this.fname = fname;
    }
    public String getLname() {
        return lname;
    }
    public void setLname(String lname) {
        this.lname = lname;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    public int getAge() {
        return age;
    }
    public void setAge(int age) {
        this.age = age;
    }
    public String getPassword() {
        return password;
    }
    public void setPassword(String password) {
        this.password = password;
    }

    public String getUsername() {
        return username;
    }
    public void setUsername(String username) {
        this.username = username;
    }
    public RegisterUser() {

    }

    @Override
    public String toString() {
```

```

        return "RegisterUser [seqNo=" + seqNo + ", username=" + username + ",
fname=" + fname + ", lname=" + lname
        + ", name=" + name + ", age=" + age + ", password=" + password +
        "];
    }

    public RegisterUser(String username, String fname, String lname, String name,
int age, String password) {
        this.username = username;
        this.fname = fname;
        this.lname = lname;
        this.name = name;
        this.age = age;
        this.password = password;
    }
}

```

Package-com.simplilearn.aeroplane.dto

Class-TravelData.java

```

package com.simplilearn.aeroplane.dto;

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="Travel_details_aerospace")
public class TravelData {
    @Id
    @Column(name="Id")
    @GeneratedValue(strategy=GenerationType.SEQUENCE)
    private int id;

    @Column(name="Airlines")
    private String Airlines;
    @Column(name="Date_Of_Travel")
    private String dateOfTravel;
    @Column(name="Source")

```

```
private String source;
@Column(name="Destination")
private String destination;

@Column(name="No_Of_Person_Left")
private int noOfPerson;
@Column(name="Cost_of_Person")
private double costPerPerson;

public int getId() {
    return id;
}
public void setId(int id) {
    this.id = id;
}
public String getAirlines() {
    return Airlines;
}
public void setAirlines(String airlines) {
    Airlines = airlines;
}
public String getDateOfTravel() {
    return dateOfTravel;
}
public void setDateOfTravel(String dateOfTravel) {
    this.dateOfTravel = dateOfTravel;
}
public String getSource() {
    return source;
}
public void setSource(String source) {
    this.source = source;
}
public String getDestination() {
    return destination;
}
public void setDestination(String destination) {
    this.destination = destination;
}
public int getNoOfPerson() {
    return noOfPerson;
}
public void setNoOfPerson(int noOfPerson) {
    this.noOfPerson = noOfPerson;
}
}
```

```

    public double getCostPerPerson() {
        return costPerPerson;
    }
    public void setCostPerPerson(double costPerPerson) {
        this.costPerPerson = costPerPerson;
    }
    public TravelData(String airlines, String dateOfTravel, String source, String
destination, int noOfPerson,
        double costPerPerson) {
        Airlines = airlines;
        this.dateOfTravel = dateOfTravel;
        this.source = source;
        this.destination = destination;
        this.noOfPerson = noOfPerson;
        this.costPerPerson = costPerPerson;
    }
    public TravelData(String dateOfTravel, String source, String destination, int
noOfPerson, double costPerPerson) {
        this.dateOfTravel = dateOfTravel;
        this.source = source;
        this.destination = destination;
        this.noOfPerson = noOfPerson;
        this.costPerPerson = costPerPerson;
    }
    public TravelData(String dateOfTravel, String source, String destination, int
noOfPerson) {
        this.dateOfTravel = dateOfTravel;
        this.source = source;
        this.destination = destination;
        this.noOfPerson = noOfPerson;
    }

    public TravelData(int id, String airlines, String dateOfTravel, String
source, String destination, int noOfPerson,
        double costPerPerson) {
        super();
        this.id = id;
        Airlines = airlines;
        this.dateOfTravel = dateOfTravel;
        this.source = source;
        this.destination = destination;
        this.noOfPerson = noOfPerson;
        this.costPerPerson = costPerPerson;
    }

```

```

@Override
public String toString() {
    return "TravelData [id=" + id + ", Airlines=" + Airlines + ",
dateOfTravel=" + dateOfTravel + ", source="
        + source + ", destination=" + destination + ", noOfPerson=" +
noOfPerson + ", costPerPerson="
        + costPerPerson + "]";
}
public TravelData() {

}

}

```

Package-com.simplilearn.aeroplane.dto

Class-SeatBooked.java

```

package com.simplilearn.aeroplane.dto;

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="Seat_Booked_Flight")
public class SeatBooked {

    @Id
    @GeneratedValue(strategy=GenerationType.AUTO)
    @Column(name="BookId")
    private int bookId;

    @Column(name="Name")
    private String name;
}

```

```
@Column(name="username")
private String username;

@Column(name="Age")
private int age;

@Column(name="EMail")
private String emailAddress;

@Column(name="Address")
private String address;

@Column(name="Mobile")
private long phone;

@Column(name="Airline")
private String airline;

@Column(name="FlightId")
private int airId;

@Column(name="DateOfTravel")
private String dateOfTravel;

@Column(name="Source")
private String source;

@Column(name="Destination")
private String destintion;

@Column(name="TotalCost")
private double tcost;

@Column(name="AdhaarCard")
private long adhaar;


public int getBookId() {
    return bookId;
}

public void setBookId(int bookId) {
    this.bookId = bookId;
}
```



```
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public int getAge() {
    return age;
}

public void setAge(int age) {
    this.age = age;
}

public String getEmailAddress() {
    return emailAddress;
}

public void setEmailAddress(String emailAddress) {
    this.emailAddress = emailAddress;
}

public String getAddress() {
    return address;
}

public void setAddress(String address) {
    this.address = address;
}

public String getAirline() {
    return airline;
}

public void setAirline(String airline) {
    this.airline = airline;
}

public int getAirId() {
```

```
        return airId;
    }

    public void setAirId(int airId) {
        this.airId = airId;
    }

    public String getDateOfTravel() {
        return dateOfTravel;
    }

    public void setDateOfTravel(String dateOfTravel) {
        this.dateOfTravel = dateOfTravel;
    }

    public String getSource() {
        return source;
    }

    public void setSource(String source) {
        this.source = source;
    }

    public String getDestintion() {
        return destintion;
    }

    public void setDestintion(String destintion) {
        this.destintion = destintion;
    }

    public double getTcost() {
        return tcost;
    }

    public void setTcost(double tcost) {
        this.tcost = tcost;
    }

    public String getUsername() {
        return username;
    }

    public void setUsername(String username) {
```

```

        this.username = username;
    }

    public SeatBooked() {
    }

    public SeatBooked(String name, String username, int age, String emailAddress,
String address, long phone,
        String airline, int airId, String dateOfTravel, String source, String
destintion, double tcost,long adhaar) {
        this.name = name;
        this.username = username;
        this.age = age;
        this.emailAddress = emailAddress;
        this.address = address;
        this.phone = phone;
        this.airline = airline;
        this.airId = airId;
        this.dateOfTravel = dateOfTravel;
        this.source = source;
        this.destintion = destintion;
        this.tcost = tcost;
        this.adhaar=adhaar;
    }

}

```

Application start when you run **login.jsp** page and it will display two option with login and register user.

Location- src/main/webapp

File-login.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@page errorPage="error.jsp" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Welcome to AeroBooking</title>

```

```

</head>
<h1><b>Welcome to AeroBooking</b></h1>
<body>
<form action="LoginServlet" method="post">
Enter username:<input type="text" name="uname"/></br>
Enter password:<input type="password" name="pwd"/></br></br>
<input type="submit" value="Login"/>
<input type="submit" formaction="Register.jsp" value="Register"/>
</form>
</br>

</body>
</html>

```

After login if user is admin then code is given below –username-**admin** and pwd-**admin123**

Package-com.simplilearn.aeroplane.controller

Servlet-LoginServlet.java

```

package com.simplilearn.aeroplane.controller;

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.aeroplane.dao.AeroplaneDaoImpl;

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

    protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        String username=request.getParameter("uname");
        String password=request.getParameter("pwd");

        String n_user,n_pass;

```

```

        PrintWriter writer=response.getWriter();
        AeroplaneDaoImpl dao=new AeroplaneDaoImpl();
        dao.getUserPass(username, password);
        n_user=dao.getUser();
        n_pass=dao.getPassword();
        if(username.equals("admin")&&password.equals("admin123"))
        {
            writer.println("You're welcome ADMIN..go to admin page ");
            RequestDispatcher
requestDispatcher=request.getRequestDispatcher("AdminWork.jsp");
            requestDispatcher.forward(request, response);
        }
        else if(dao.checkAlreadyRegistered(username, password))
        {
            writer.println("Register user booking section");
            writer.println("Book a FLIGHT!!");
            RequestDispatcher
requestDispatcher=request.getRequestDispatcher("BookFlight.jsp");
            requestDispatcher.forward(request, response);
        }
        else
        {
            writer.println("Go to Register page newspage");
            RequestDispatcher
requestDispatcher=request.getRequestDispatcher("ReRegister.jsp");
            requestDispatcher.forward(request, response);
        }
        writer.println("user is "+n_user+" Password "+n_pass);
    }

    protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        doGet(request, response);
    }
}

```

If user is admin the control goes to AdminWork.jsp and code is –

Location- src/main/webapp

File- AdminWork.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<h1>Welcome Admin:</h1>
<h3>Your functions are:</h3>
<body>
<table border="1" cellpadding="1">
<form action="AddFlight.jsp" method="post">
<tr><td>Add details of the Flight</td><td><input type="submit" value="Add
flight"/></td></tr>
<tr><td>Change password of any user </td><td><input type="submit"
formation="ChangePassword.jsp" value="Lets change"/></td></tr>
<tr><td>Master List of Airlines</td><td><input type="submit"
formation="Airlineslist.jsp" value="Airline list"/></td></tr>
<tr><td>Master List of Source & Destinations</td><td><input type="submit"
formation="Source&Dest.jsp" value="Source & Dest"/></td></tr>
</table><br>
Logout from admin <input type="submit" formation="login.jsp" value="Logout"/>
</form>

</body>
</html>

```

Then it have 4 option –add Flight , change password , Display airlines, display source & destination. Suppose user go for add flight then control goes to AddFlight.jsp.

Location-src/main/webapp

File-AddFlight.jsp

```

<%@page import="java.util.LinkedHashSet"%>
<%@page import="com.simplilearn.aeroplane.dto.TravelData"%>
<%@page import="java.util.Set"%>
<%@page import="com.simplilearn.aeroplane.dao.AeroplaneDaoImpl"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">

```

```

<title>Add flight here to database</title>
</head>
<h2>Flight details add here:</h2>
<h3>Here to enter:</h3>
<body>
<form action="addFlightServlet" method="post">
    Enter Airline:<input type="text" name="airline"/></br>
    Date of travel:<input type="date" name="dateOfTravel" min="2022-04-25"/></br>
    Source:<input type="text" name="source"/></br>
    Destination:<input type="text" name="destination"/></br>
    Number of person:<input type="number" name="noOfPerson" min="1"/></br>
    Cost per Person:<input type="number" name="costPerPerson" min="2000"
max="1000000"/></br></br>
    <input type="submit" formaction="addFlightServlet" value="Flight Add"/>
</form>
</br>
<table border="1" padding="7">
<tr><th>Flight ID</th><th>Airline</th><th>Date of
Travel</th><th>Source</th><th>Destination</th><th>Seats Availabe</th><th>Cost per
Seat</th></tr>
<%AeroplaneDaoImpl dao=new AeroplaneDaoImpl();
    Set<TravelData> allDetails=dao.getAllFlight();
    for(TravelData detail:allDetails)
    {%>
<tr><td><%=detail.getId() %></td><td><%=detail.getAirlines()
%></td><td><%=detail.getDateOfTravel() %></td><td><%=detail.getSource()
%></td><td><%=detail.getDestination() %></td><td><%=detail.getNoOfPerson()
%></td><td><%=detail.getCostPerPerson() %></td></tr>
<%} %>
</table>
</body>
</html>

```

After AddFlight.jsp control goes to addFlightServlet.java.

Package-com.simplilearn.aeroplane.controller

Servlet-addFlightServlet.java

```

package com.simplilearn.aeroplane.controller;

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.aeroplane.dao.AeroplaneDaoImpl;
import com.simplilearn.aeroplane.dto.TravelData;

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

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

        PrintWriter writer = response.getWriter();
        writer.println("Welcome to add Flight servlet details");
        String airline=request.getParameter("airline");
        String dateOfTravel=request.getParameter("dateOfTravel");
        String source=request.getParameter("source");
        String destination=request.getParameter("destination");
        int noOfPerson=Integer.parseInt(request.getParameter("noOfPerson"));
        double
costPerPerson=Double.parseDouble(request.getParameter("costPerPerson"));

        TravelData travelData=new
TravelData(airline,dateOfTravel,source,destination,noOfPerson,costPerPerson);

        AeroplaneDaoImpl dao=new AeroplaneDaoImpl();
        int id=dao.addTravelData(travelData);
        if(id>0)
        {
            RequestDispatcher
requestDispatcher=request.getRequestDispatcher("ReAddFlight.jsp");
            requestDispatcher.forward(request, response);
        }
        else
        {
            writer.println("not added!!!");
        }
    }
}

```



```

        protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
            // TODO Auto-generated method stub
            doGet(request, response);
        }
    }
}

```

After successfully adding the flight the control goes to ReAddFlight.jsp to ask admin whether to add the flight or back to admin function.

Location-src/main/webapp

File-firstReAddflight.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<h2>New flight added on the database!!</h2>
<h3>Want to add Again::-</h3>
<body>

</body>
</html>

```

Above file will be included in ReAddFlight.jsp.

Location-src/main/webapp

File-ReAddFlight.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@page errorPage="error.jsp" %>
<%@ include file="firstReAddFlight.jsp" %>
<%@ include file="AddFlight.jsp" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>

```

```

</head>
<body>
<form action="AdminWork.jsp">
</br></br></br>
<input type="submit" value="Back To AdminWork"/>
</form>

</body>
</html>

```

After clicking back button in ReAddFlight.jsp the control goes back to AdminWork.jsp. And suppose if admin select the second option changing the password.

Location-src/main/webapp

File-ChangePassword.jsp

```

<%@page import="com.simplilearn.aeroplane.dto.RegisterUser"%>
<%@page import="java.util.Set"%>
<%@page import="com.simplilearn.aeroplane.dao.AeroplaneDaoImpl"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Welcome to password cahnge section</title>
</head>
<h2>Change the password of the user:</h2>
<body>
<form action="changePasswordServlet" method="post">
    Enter username of the user : <input type="text" name="uname"/>
    Enter New password to set : <input type="text" name="password"/>
    <input type="submit" value="Change password"/>
</form>
</br>
<table border="2" padding="2" color="yellow">

<tr><th>Username</th><th>Password</th></tr>
<%AeroplaneDaoImpl dao=new AeroplaneDaoImpl();
Set<RegisterUser> allUser=dao.getAllUser();
for(RegisterUser user:allUser)
{%>
<tr><td><%=user.getUsername() %></td><td><%=user.getPassword() %></td></tr>
<%} %>

```

```
</table>
</body>
</html>
```

The control goes to changePasswordServlet.java for changing the password.

Package-com.simplilearn.aeroplane.controller

Servlet- changePasswordServlet.java

```
package com.simplilearn.aeroplane.controller;

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.aeroplane.dao.AeroplaneDaoImpl;

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

    protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        PrintWriter writer = response.getWriter();
        writer.println("Welcome to Change password of user");

        String username=request.getParameter("uname");
        String n_password=request.getParameter("password");

        AeroplaneDaoImpl dao=new AeroplaneDaoImpl();
        dao.getUserPass(username, n_password);
        dao.updatePasswordAdmin(username, n_password);

        RequestDispatcher
requestDispatcher=request.getRequestDispatcher("ReChangePassword.jsp");
        requestDispatcher.forward(request, response);
    }
}
```

```

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

            doGet(request, response);
        }
    }
}
P

```

After admin change the password for specified user the control goes to ReChangePassword.jsp which have 2 option want to change password again or not and back to admin option.

Location-src/main/webapp

File-PasswordUpdation.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@page errorPage="error.jsp" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<h2>Password updated succesfully!!!</h2>
<body>

</body>
</html>

```

Location-src/main/webapp

File-ReChangePassword.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<%@ include file="PasswordUpdation.jsp" %>
<%@ include file="ChangePassword.jsp" %>
<html>
<head>
<meta charset="ISO-8859-1">

```

```

<title>Insert title here</title>
</head>
<body>
</br></br>
<form action="AdminWork.jsp">
<input type="submit" value="Back to WorkAdmin"/>
</form>
</body>
</html>

```

After updating password suppose admin came back to admin work option and select 3 to display airlines list.

Location-src/main/webapp

File-Airlineslist.jsp

```

<%@page import="com.simplilearn.aeroplane.dto.TravelData"%>
<%@page import="java.util.Set"%>
<%@page import="com.simplilearn.aeroplane.dao.AeroplaneDaoImpl"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Airline list</title>
</head>
<body>
<h2>Here is the list of the Flights:</h2></br>
<table border="1" cellpadding="1"><tr><th><h3><b>Flight name:</b></h3></th></tr>
<%AeroplaneDaoImpl dao=new AeroplaneDaoImpl();
Set<TravelData> allFlights=dao.getAllFlight();
HttpSession ses=request.getSession();
ses.setAttribute("allFlights", allFlights);

for(TravelData flight:allFlights)
{%>
<tr><td> <%=flight.getAirlines() %> </td></tr>
<%} %>
</table>
</br>
<form action="AdminWork.jsp" >
Add Airline name: <input type="text" name="Airline"/></br>

```

```

<input type="submit" value="Add"/>
<input type="submit" formaction="AdminWork.jsp" value="Back"/>
</form>

</body>
</html>

```

Suppose admin back after seeing the output of airline list and selected 4 option of displaying the source and destination list.

Location-src/main/webapp

File-Source&Dest.jsp

```

<%@page import="com.simplilearn.aeroplane.dto.TravelData"%>
<%@page import="java.util.Set"%>
<%@page import="com.simplilearn.aeroplane.dao.AeroplaneDaoImpl"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h2>Here is the list of the Source & Destination:</h2></br>
<table border="1" cellpadding="2">
<tr><th><b>Source:</b></th><th><b>Destination:</b></th></tr>
<%AeroplaneDaoImpl dao=new AeroplaneDaoImpl();
Set<TravelData> allFlights=dao.getAllFlight();

for(TravelData flight:allFlights)
{
<tr><td> <%=flight.getSource() %> </td><td><%=flight.getDestination()
%></td></tr>
<%} %>
</table>
</br>
<form action="AdminWork.jsp" >
Add Source: <input type="text" name="src"/></br>
Add destination:<input type="text" name="dest"/></br>
<input type="submit" value="Add"/>
<input type="submit" formaction="AdminWork.jsp" value="Back"/>
</form>

```

```
</body>
</html>
```

After selecting back option from Source&Dest.jsp , the admin will be back to AdminWork.jsp.

Suppose if the user is not admin and is normal user who came to book flight. And if user is new to AeroSpace website he will be first register to the database.

If user click on the register button in login.jsp. He/She will be forwarded to Register.jsp page.

Location-src/main/webapp

File-Register.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Register the user</title>
</head>
<h1><b>REGISTER USER</b></h1>
<body>

<form action="RegisterServlet" method="post">
<table>
<tr><td>User Name:</td><td><input type="text" name="uname"/></td></tr>
<tr><td>First name:</td><td><input type="text" name="fname"/></td></tr>
<tr><td>Second name:</td><td><input type="text" name="sname"/></td></tr>
<tr><td>Age:</td><td><input type="number" name="age" min="10"
max="100"/></td></tr>
<tr><td>Password:</td><td><input type="password" name="password"/></td></tr>
<tr><td>Confirm password:</td><td><input type="password"
name="cpassword"/></td></tr>
</table>
<input type="submit" value="Registered"/>
</form>

</body>
</html>
```

Then the control goes to **RegisterServlet.java** where user data is saved into database table-**user_registered**.

Package-com.simplilearn.aeroplane.controller

Servlet-RegisterServlet.java

```
package com.simplilearn.aeroplane.controller;

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.aeroplane.dao.AeroplaneDaoImpl;
import com.simplilearn.aeroplane.dto.RegisterUser;

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

    protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        String username=request.getParameter("uname");
        String fname=request.getParameter("fname");
        String lname=request.getParameter("sname");
        String name=fname+" "+lname;
        int age=Integer.parseInt(request.getParameter("age"));
        String rpassword=request.getParameter("password");
        String cpassword=request.getParameter("cpassword");
        String password="";
        RequestDispatcher requestDispatcher;
        AeroplaneDaoImpl dao=new AeroplaneDaoImpl();
        // RegisterUser n_user=new RegisterUser(fname,lname,name,age,rpassword);
        // DaoImpl dao=new DaoImpl();
        // Integer seqNo=dao.addRegisteredUser(n_user);

        // PrintWriter writer=response.getWriter();
        // if(seqNo>0)
        //     writer.println("data enetered");
        // else
        //     writer.println("no user added to record at the database");
    }
}
```



```

        boolean isUsernameUsed=dao.checkUsernameAvailable(username);
        if(isUsernameUsed)
        {
            requestDispatcher=request.getRequestDispatcher("UsernameUsed.jsp");
            requestDispatcher.forward(request, response);

        }
        else {
            if(rpassword.equals(cpassword))
            {
                password+=rpassword;
                RegisterUser n_user=new
RegisterUser(username,fname,lname,name,age,password);

                Integer seqNo=dao.addRegisteredUser(n_user);

                if(seqNo>0)
                {
                    requestDispatcher= request.getRequestDispatcher("login.jsp");
                    requestDispatcher.forward(request, response);
                }
                else
                {
                    requestDispatcher=request.getRequestDispatcher("Register.jsp"
);
                    requestDispatcher.forward(request, response);
                    System.out.println("password mismatch");
                }
            }
            else
            {requestDispatcher=request.getRequestDispatcher("passwordMismatch.jsp
");
                requestDispatcher.forward(request, response);
            }
        }

    }

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

```

```

        protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
            // TODO Auto-generated method stub
            doGet(request, response);
        }
    }
}

```

If user enter mismatch password then it will show Password mismatch message and control goes to passwordMismatch.jsp.

Location-src/main/webapp

File-passwordMismatch.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@page errorPage="error.jsp" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Password mismatch</title>
</head>
<body>
<h2>Your password entered and retyped password didnt match. Please enter again
the same password for both the field!!</h2>
</body>
<%@ include file="Register.jsp" %>
</html>

```

If user entered the Username that is already used then the control goes to UsernameUsed.jsp.

Location-src/main/webapp

File-UsernameUsed.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@page errorPage="error.jsp" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">

```

```

<title>Please enter new username</title>
</head>
<body>
<h2>Please enter another username!! This one is taken!!!</h2>
<%@ include file="Register.jsp" %>
</body>
</html>

```

If user entered both password correctly and user is registered successfully the control then goes to login.jsp. After successful registration of user and saving it to the Database table- user_registered.

Suppose this time user login already is registered and entered wrong password at the login.jsp then the control goes to WrongPasswrd.jsp and then to ReRegister.jsp.

Location-src/main/webapp

File-WrongPassword.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@page errorPage="error.jsp" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Wrong password</title>
</head>
<h3>You entered the wrong password or username!!</h3>
<h4>Re- enter the password and username...!! Carefully!!!</h4>
<body>

</body>
</html>

```

Location- src/main/webapp

File-ReRegister.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>

```

```

<%@include file="WrongPassword.jsp" %>
<%@include file="login.jsp" %>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>

</body>
</html>

```

Suppose if user has correct username and password and is login then he can book the flight. So the control goes from login.jsp to BookFlight.jsp.

Location- src/main/webapp

File- BookFlight.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@page errorPage="error.jsp" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<h2>Search Homepage</h2>
<h3><i>Travel Details</i></h3>
<body>
<form action="HomepageServlet" method="post">
    Date of travel:<input type="date" name=dateOfTravel min="2022-04-25"/>
    Source:<input type="text" name="source"/>
    Destination:<input type="text" name="destination"/>
    Number of person:<input type="number" name="noOfPerson" min="1"/>
    </br></br>
    <input type="submit" value="Book Flight"/>

</form>
</body>
</html>

```

After entering details for flight it will show flight on that date if available. And control goes to HomepageServlet.java.

Package- com.simplilearn.aeroplane.controller

Servlet- HomepageServlet.java

```
package com.simplilearn.aeroplane.controller;

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

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

import com.simplilearn.aeroplane.dao.AeroplaneDaoImpl;
import com.simplilearn.aeroplane.dto.TravelData;

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

    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
        String date=request.getParameter("dateOfTravel");
        String source=request.getParameter("source");
        String destination=request.getParameter("destination");
        int noOfPerson=Integer.parseInt(request.getParameter("noOfPerson"));

        PrintWriter writer=response.getWriter();

        AeroplaneDaoImpl dao=new AeroplaneDaoImpl();
        Set<TravelData> allData;
        allData=dao.getAllTravelDetails(date, source, destination);
        HttpSession session=request.getSession();

        session.setAttribute("seatRequired", noOfPerson);
        int seatsAvail=dao.getAvailableSeatsFlight(date, source, destination);
```

```

        //No of person
        Set<TravelData> seats;
        seats=dao.getAvailableSeats(date, source, destination);
        if(seats.size()>0)
            session.setAttribute("seatsAvailable", seats);
        else
            {session.setAttribute("msg1", "No seats available");
            RequestDispatcher
dis=request.getRequestDispatcher("RightDetailBookFlight.jsp");
            dis.forward(request, response);
            }
        if(allData.size()>0)
        {
            session.setAttribute("travelDetails", allData);

        }
        else
        {
            session.setAttribute("msg", "No Filght there for this date.");
            RequestDispatcher
dis=request.getRequestDispatcher("RightDetailBookFlight.jsp");
            dis.forward(request, response);

        }

        if(noOfPerson<=seatsAvail)
        { RequestDispatcher
dis=request.getRequestDispatcher("ShowFlight.jsp");
            dis.forward(request, response);
            //writer.println("Number of Person:"+noOfPerson);
        }
        else
        {
            RequestDispatcher
dis=request.getRequestDispatcher("BookFlightSeatsCorrect.jsp");
            dis.forward(request, response);
        }

    }

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

```

```

        doGet(request, response);
    }
}

```

Suppose if AeroSpace flight doesnot have flight on that day from that source to that destination, then it will print message no flights available and control goes to RightDetailBookFlight.jsp.

Location- src/main/java

File- RightDetailBookFlight.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<h1>There is no flight for on this date and to this source and destination.</h1>
<h2>Please try another date,soucre,destination!!</h2>
<%@ include file="BookFlight.jsp" %>
<body>

</body>
</html>

```

If user entered seats are not available in the flight then it will print you can access maximum this much amount of seat for this flight. And control goes to BookFlightSeatsCorrect.jsp.

Location-src/main/webapp

File-BookFlightSeatsCorrect.jsp

```

<%@page import="com.simplilearn.aeroplane.dto.TravelData"%>
<%@page import="java.util.Set"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>

<html>

```

```

<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<%Set<TravelData> seats=(Set<TravelData>)session.getAttribute("seatsAvailable");
for (TravelData seat:seats){%>
<h1>Your required seats are not available in this flight.</h1>
<h3>You can book maximum <%=
                                seat.getNoOfPerson()    %><% } %> seats of this
flight.</h3>
<%@ include file="BookFlight.jsp" %>
<body>

</body>
</html>

```

Lets suppose if user have entered every details that matches the criteria then it will show respective flights and control goes to ShowFlight.jsp.

Location-src/main/webapp

File-ShowFlight.jsp

```

<%@page import="com.simplilearn.aeroplane.dto.TravelData"%>
<%@page import="java.util.Set"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@page errorPage="error.jsp" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<center>
<h1> Available Flights </h1>

</center>
<div align="center">
<table border="1" cellpadding="8">
    <caption><h2>Book now from Aerospace </h2></caption>
    <tr>
        <th>Flight Id</th>
        <th>Airlines name:</th>

```



```

        <th>Date of Flight: </th>
        <th>From: </th>
        <th>To: </th>
        <th>Available Seats:</th>
        <th>Ticket price per Person:</th>
        <th>Book Flight</th>
    </tr>
    <% Set<TravelData>
allData=(Set<TravelData>)session.getAttribute("travelDetails");

    for(TravelData data : allData)
    {
    %>
        <tr><td><%=data.getId() %></td>
        <td><%=data.getAirlines() %></td>
        <td><%=data.getDateOfTravel() %></td>
        <td><%=data.getSource() %></td>
        <td><%=data.getDestination() %></td>
        <td><%=data.getNoOfPerson() %></td>
        <td><b><%=data.getCostPerPerson() %></b></td>
        <td><a href="PersonalDetailsBookingServlet?print_id=<%=data.getId()
%>" >Book</a></td></tr>
    <%
    }
    %>

</table>
</div>
</body>
</html>

```

After ShowFlight.jsp the flight will be shown and when user select book option from page. Then control goes to PersonalDetailsBookingServlet.java.

Package-com.simplilearn.aeroplane.controller

Servlet- PersonalDetailsBookingServlet.java

```

package com.simplilearn.aeroplane.controller;

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

```

```

import java.util.Set;

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

import com.simplilearn.aeroplane.dao.AeroplaneDaoImpl;
import com.simplilearn.aeroplane.dto.TravelData;

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

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

        int id=Integer.parseInt(request.getParameter("print_id"));
        PrintWriter writer=response.getWriter();
        AeroplaneDaoImpl dao=new AeroplaneDaoImpl();
        Set<TravelData> confirmData=dao.getConfirmDetails(id);

        HttpSession session=request.getSession();
        session.setAttribute("BookData", confirmData);

        RequestDispatcher
dis=request.getRequestDispatcher("PersonalDetailsBooking.jsp");
        dis.forward(request, response);

    }

    protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        doGet(request, response);
    }
}

```

Then control goes to PersonalDetailsBooking.jsp.

Location-src/main/webapp

File-PersonalDetailsBooking.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@page errorPage="error.jsp" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<h2>Welcome to book the Flight </h2>
<h4>Fill the Personal Details:</h4>
<body>
<form action="ShowConfirmBooking.jsp" method="post">
<table>
<tr><td>Enter name: </td><td><input type="text" name="name"/></td></tr>
<tr><td>Enter email: </td><td><input type="text" name="email"/></td></tr>
<tr><td>Enter username: </td><td><input type="text" name="uname"/></td></tr>
<tr><td>Enter age: </td><td><input type="number" name="age" min="10" /></td></tr>
<tr><td>Enter Adhaar: </td><td><input type="number" name="adhaar"/></td></tr>
<tr><td>Enter address: </td><td><input type="text" name="address"/></td></tr>
<tr><td>Enter phone number: </td><td><input type="number" name="phn"/></td></tr>
<tr><td><input type="submit" value="Go to Next"/></td></tr>
</table>
</form>

</body>
</html>
```

If any error during filling the form or personal details not filled then it will flow the control to **error.jsp** which is **Error Page** of whole package.

Location-src/main/webapp

File-error.jsp

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

```

<%@ page isErrorPage="true" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Error page</title>
</head>
<body>
<h2>You have bad internet speed or your data entered is wrong so please check it carefully!!</h2>
<h3>Sorry site crashes due to hevay load.</h3>

</body>
</html>

```

Suppose you fill all the field of personal details in PersonalDetailsBooking.jsp then the control will go to ShowConfirmBooking.jsp.

Location-src/main/webapp

File-ShowConfirmBooking.jsp

```

<%@page import="com.simplilearn.aeroplane.dto.TravelData"%>
<%@page import="java.util.Set"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@page errorPage="error.jsp" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<% Set<TravelData> confirmData=(Set<TravelData>)session.getAttribute("BookData");
    int nop=(int)session.getAttribute("seatRequired");
    if(nop==0|| confirmData.equals(null))
        throw new RuntimeException("Wrong exception");
    for(TravelData data:confirmData)
    {%>
        <h2>Booking for flight:-</h2></br>
You are booking for the flight with Flight: <b><i><%=data.getAirlines()
%></i></b> and Flight Id: <b><i><%=data.getId() %></i></b></br>
<body>
<h4>Details of Flights:</h4>

```

```

<b>Flight Id </b>: <%=data.getId() %></br>
<b>Airline </b> :<%=data.getAirlines() %></br>
<b>Date of Flight</b> : <%=data.getDateOfTravel() %></br>
<b>Flight from </b> : <%=data.getSource() %></br>
<b>Flight to </b> : <%=data.getDestination() %></br>
<b>Total seats booking:</b> <%=nop %></br>
<b>Total Amount : <i><%=data.getCostPerPerson()*nop %></i></b>

<%} %>
<%HttpSession ses=request.getSession();
String name=request.getParameter("name");
long adhaar=Long.parseLong(request.getParameter("adhaar"));
long phone=Long.parseLong(request.getParameter("phn"));
String address=request.getParameter("address");
String email=request.getParameter("email");
String uname=request.getParameter("uname");
int age=Integer.parseInt(request.getParameter("age"));
ses.setAttribute("name",name);
ses.setAttribute("adhaar", adhaar);
ses.setAttribute("phone", phone);
ses.setAttribute("address", address);
ses.setAttribute("email", email);
ses.setAttribute("uname", uname);
ses.setAttribute("age",age);%>

<form action="goToPayment.jsp" method="post">
</br>
<input type="submit" value="GO To Payment"/>
</form>
</body>
</html>

```

After fetching all the data from personal details it will send control to the goToPayment.jsp for dummy payment.

Location-src/main/webapp

File-goToPayment.jsp

```

<%@page import="com.simplilearn.aeroplane.dto.TravelData"%>
<%@page import="java.util.Set"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>

```

```

<head>
<meta charset="ISO-8859-1">
<title>dummy payment</title>
</head>
<body>
<%Set<TravelData> confirmData=(Set<TravelData>)session.getAttribute("BookData");
int nop=(int)session.getAttribute("seatRequired");
for(TravelData data:confirmData)
{ %>
<h2>Payment details</h2>
You have payment of total amount <b><%= data.getCostPerPerson()*nop %></b> for
Airline name <b><%=data.getAirlines() %></b> with flight id
<b><%=data.getId() %></b>.
So to proceed payment, enter the debit card information and otp:
<%} %>
<form action="Otp.jsp" method="post">
Card Number:<input type="number" name="CardNumber"/></br>
Name:<input type="text" name="CardName"/></br>
Expiry date:<input type="text" name="ExpiryDate"/></br>
CNN:<input type="number" name="CNN"/></br>
</br>
<input type="submit" value="Generate OTP"/>
</form>
</body>
</html>

```

After filling dummy credit/debit card detail it will ask for OTP and control will be send from the goToPayment.jsp to Otp.jsp.

Location-src/main/webapp

File-Otp.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Otp generation</title>
</head>
<body>
<h2>Hello an OTP for payment is send on the number 7**6**709.Please enter the OTP
for booking the Flight at AEROSPACE.</h2>
<form action="paymentSuccessfulServlet" method="post">

```

```
Enter OTP: <input type="number" name="otp"/></br>
</br>
<input type="submit" value="Ok"/>
</form>
</body>
</html>
```

After you entered the OTP then it will send control to the paymentSuccessfulServlet.java .

Package-com.simplilearn.aeroplane.controller

Servlet-paymentSuccessfulServlet.java

```
package com.simplilearn.aeroplane.controller;

import java.io.IOException;
import java.util.Set;

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

import com.simplilearn.aeroplane.dao.AeroplaneDaoImpl;
import com.simplilearn.aeroplane.dto.SeatBooked;
import com.simplilearn.aeroplane.dto.TravelData;

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

    protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        HttpSession session=request.getSession();
        int nop=(int)session.getAttribute("seatRequired");
        int seatsLeft=0;
        int Aid=0;String Airlines=null;String dot=null;String dest=null;String
src=null;double tcost=0.0;
        Set<TravelData>
detailsForBooking=(Set<TravelData>)session.getAttribute("BookData");
        for(TravelData data:detailsForBooking)
```

```

{
    Aid=data.getId();
    Airlines=data.getAirlines();
    dot=data.getDateOfTravel();
    dest=data.getDestination();
    src=data.getSource();
    tcost=data.getCostPerPerson()*nop;

}
String name=null;String email=null;long phone=0;long adhaar=0;String
address=null;String uname=null;int age=10;
name=(String)session.getAttribute("name");
email=(String)session.getAttribute("email");
phone=(long)session.getAttribute("phone");
adhaar=(long)session.getAttribute("adhaar");
address=(String)session.getAttribute("address");
uname=(String)session.getAttribute("uname");
age=(int)session.getAttribute("age");
AeroplaneDaoImpl dao=new AeroplaneDaoImpl();
seatsLeft=dao.getAvailableSeatsFlight(dot, src, dest);
seatsLeft-=nop;

SeatBooked seatBooked=new
SeatBooked(name,uname,age,email,address,phone,Airlines,Aid,dot,src,dest,tcost,adh
aar);

int bid=dao.addSeatBookedData(seatBooked);

if(bid>0)
{
    dao.updateSeats(Aid, seatsLeft);

    Set<TravelData> allData;
    allData=dao.getAllTravelConfirmDetails(Aid);
    session.setAttribute("details", allData);

    RequestDispatcher
dis=request.getRequestDispatcher("paymentSuccessful.jsp");
    dis.forward(request, response);
}

else
{
    RequestDispatcher dis=request.getRequestDispatcher("login.jsp");
    dis.forward(request, response);
}
System.out.println("i am here");

```



```

        System.out.println(seatsLeft);
    }

    protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        doGet(request, response);
    }
}

```

After this control goes to paymentSuccessful.jsp where it will display message of successful payment.

Location-src/main/webapp

File-paymentSuccessful.jsp

```

<%@page import="com.simplilearn.aeroplane.dto.TravelData"%>
<%@page import="java.util.Set"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@page errorPage="error.jsp" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Payment Cinfirmation successful</title>
</head>

<body>
<h1>Thank you!! For booking flight at Aerospace. Have a delightful
journey!!!</h1></br>
<% Set<TravelData> details=(Set<TravelData>)session.getAttribute("details");
    int nop=(int)session.getAttribute("seatRequired");
    for(TravelData detail:details)
    {%>
Your flight with Airline <b><%=detail.getAirlines() %></b> having flight
id <b><i><%=detail.getId() %></i></b> from <b><%=detail.getSource()%></b> to
<b><%=detail.getDestination() %></b> on Date : <b><i><%=detail.getDateOfTravel()
%></i></b> for <b><%=nop %></b> seat has been SUCCEFULLY BOOKED at Aerospace.
<% } %>
    </br>

```

```
    </br>
    <h3>Have a Safe journey!! See u at the other end.</h3>
</body>
</html>
```