Assignment 4

**Question 1:**

Create a **Spring-based** framework application for a travel company that lets users select a preferred travel plan. You as a member of the Web development team need to perform the following:

* Create a form to accept the **User Name**, **Mobile number**, and the **Name of the tourist destination** selected.
* Display a page that says “Thanks for Signing Up” and show all information for confirm if values are entered in all the three fields, else display a message: “Missing value in: “Employee Name”, “Missing value in: “Employee ID” or “Missing value in: “Health Plan”.

**com.models**

**Users.java**

package com.models;

import org.hibernate.validator.constraints.NotBlank;

public class Users {

@NotBlank(message = "Missing value in: 'Username'")

private String username;

@NotBlank(message = "Missing value in: 'Mobile Number'")

private String mobileNumber;

@NotBlank(message = "Missing value in: 'Tourist Destination'")

private String destination;

/\*Getter and setter - constructor\*/

}

**com.controllers**

**TravelController.java**

package com.controllers;

import com.models.Users;

import javax.validation.Valid;

import org.springframework.stereotype.Controller;

import org.springframework.ui.ModelMap;

import org.springframework.validation.BindingResult;

import org.springframework.web.bind.annotation.ModelAttribute;

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.bind.annotation.RequestMethod;

@Controller

@RequestMapping(value = "/")

public class TravelContronller {

@ModelAttribute("setDataForm")

public Users setUserForm() {

return new Users();

}

@RequestMapping(value = "index", method = RequestMethod.GET)

public String showFormData() {

return "index";

}

@RequestMapping(value = "acceptDataForm", method = RequestMethod.POST)

public String saveDataForm(@ModelAttribute("setDataForm") @Valid Users user, BindingResult br, ModelMap model) {

if (br.hasErrors()) {

return "index";

}

model.addAttribute("username", user.getUsername());

model.addAttribute("mobileNumber", user.getMobileNumber());

model.addAttribute("destination", user.getDestination());

return "thanks";

}

}

**index.jsp**

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<%@taglib prefix="form" uri="http://www.springframework.org/tags/form" %>

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

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>Welcome to Preferred Travel Plan</title>

</head>

<body>

<h1>Welcome to Preferred Travel Plan</h1>

<form:form action="acceptDataForm.htm" method="POST" modelAttribute="setDataForm">

<table>

<tbody>

<tr>

<td><label for="username">User Name:</label></td>

<td><form:input type="text" id="username" path="username" autofocus="true"/> <br>

<form:errors path="username" cssStyle="color:red" /></td>

</tr>

<tr>

<td> <label for="mobileNumber">Mobile Number:</label></td>

<td> <form:input type="tel" id="mobileNumber" path="mobileNumber" /> <br>

<form:errors path="mobileNumber" cssStyle="color:red" /></td>

</tr>

<tr>

<td><label for="destination">Tourist Destination:</label></td>

<td><form:input type="text" id="destination" path="destination" /> <br>

<form:errors path="destination" cssStyle="color:red" /></td>

</tr>

<tr>

<td></td>

<td><input type="submit" value="Sign up"/></td>

</tr>

</tbody>

</table>

</form:form>

</body>

</html>

**thanks.jsp**

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>Thank you</title>

</head>

<body>

<h1>Thanks for Signing Up</h1>

<h6>Confirm your information in below</h6>

<table>

<tbody>

<tr>

<td>User Name:</td>

<td>${setDataForm.username}</td>

</tr>

<tr>

<td>Mobile Number:</td>

<td>${setDataForm.mobileNumber}</td>

</tr>

<tr>

<td>Tourist Destination:</td>

<td>${setDataForm.destination}</td>

</tr>

</tbody>

</table>

</body>

</html>

**Question 2:**

Develop a JSF application to accept ticket bus line details from the user and send a confirmation message back to the user.

* The ticket bus line details to be accepted: **Journey Starts From**, **Destination place**, **Date of Journey**, **Number of seat.**
* In the confirmation message, the application should display **the Coach/ Seat number, Journey Starts From, Destination place, Date of Journey and the price of the Ticket**.

**com.models**

**Ticket.java**

package com.models;

import java.util.Date;

import javax.validation.constraints.NotNull;

import org.hibernate.validator.constraints.NotBlank;

public class Ticket {

@NotBlank(message = "Enter Journey Starts From Please")

private String journeyStart;

@NotBlank(message = "Enter Destination Place Please")

private String destination;

@NotNull(message = "Enter Date of Journey Please")

private Date journeyDate;

@NotNull(message = "Enter Number of Seat Please")

private int numberOfSeat;

private String coachSeatNumber;

private double price;

/\*Getter and setter - constructor\*/

public void generationCoachSeatNumber() {

this.coachSeatNumber = "SEAT\_" + Math.random() \* 100;

}

public void calculatedPrice() {

this.price = 200 \* numberOfSeat;

}

}

**com.controllers**

**ticketContronllerManagedBean.java (chuột phải -> new -> other -> JavaServer Faces -> JSF CDI Bean)**

package com.controllers;

import com.models.Ticket;

import javax.inject.Named;

import javax.enterprise.context.SessionScoped;

import java.io.Serializable;

@Named(value = "ticketContronllerManagedBean")

@SessionScoped

public class ticketContronllerManagedBean implements Serializable {

private Ticket ticket = new Ticket();

public ticketContronllerManagedBean() {

}

public String bookingTicket() {

System.out.println("---------->" + ticket.getJourneyDate());

ticket.generationCoachSeatNumber();

ticket.calculatedPrice();

return "confirmation.xhtml?faces-redirect=true";

}

public Ticket getTicket() {

return ticket;

}

}

**index.xhtml**

<?xml version='1.0' encoding='UTF-8' ?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml"

xmlns:h="http://xmlns.jcp.org/jsf/html"

xmlns:p="http://xmlns.jcp.org/jsf/passthrough"

xmlns:f="http://xmlns.jcp.org/jsf/core">

<h:head>

<title>Booking Page</title>

</h:head>

<h:body>

<h1>Enter Information of your Ticket</h1>

<h:form>

<h:outputLabel for="journeyStart">Journey Starts From:</h:outputLabel>

<h:inputText id="journeyStart" value="#{ticketContronllerManagedBean.ticket.journeyStart}" required="true" />

<h:outputLabel for="destination"> Destination Place:</h:outputLabel>

<h:inputText id="destination" value="#{ticketContronllerManagedBean.ticket.destination}" required="true" />

<h:outputLabel for="journeyDate">Date of Journey:</h:outputLabel>

<h:inputText id="journeyDate" p:type="date" value="#{ticketContronllerManagedBean.ticket.journeyDate}" required="true" >

<f:convertDateTime pattern="yyyy-MM-dd"/>

</h:inputText>

<h:outputLabel for="numberOfSeats">Number of seat:</h:outputLabel>

<h:inputText id="numberOfSeats" value="#{ticketContronllerManagedBean.ticket.numberOfSeat}" required="true" />

<h:commandButton value="Book" action="#{ticketContronllerManagedBean.bookingTicket()}" />

</h:form>

</h:body>

</html>

**confirmation.xhtml**

<?xml version='1.0' encoding='UTF-8' ?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml"

xmlns:h="http://xmlns.jcp.org/jsf/html"

xmlns:p="http://xmlns.jcp.org/jsf/passthrough"

xmlns:f="http://xmlns.jcp.org/jsf/core">

<h:head>

<title>Booking Page</title>

</h:head>

<h:body>

<h1>Enter Information of your Ticket</h1>

<h:form>

<h:outputLabel for="journeyStart">Journey Starts From:</h:outputLabel>

<h:inputText id="journeyStart" value="#{ticketContronllerManagedBean.ticket.journeyStart}" required="true" />

<h:outputLabel for="destination"> Destination Place:</h:outputLabel>

<h:inputText id="destination" value="#{ticketContronllerManagedBean.ticket.destination}" required="true" />

<h:outputLabel for="journeyDate">Date of Journey:</h:outputLabel>

<h:inputText id="journeyDate" p:type="date" value="#{ticketContronllerManagedBean.ticket.journeyDate}" required="true" >

<f:convertDateTime pattern="yyyy-MM-dd"/>

</h:inputText>

<h:outputLabel for="numberOfSeats">Number of seat:</h:outputLabel>

<h:inputText id="numberOfSeats" value="#{ticketContronllerManagedBean.ticket.numberOfSeat}" required="true" />

<h:commandButton value="Book" action="#{ticketContronllerManagedBean.bookingTicket()}" />

</h:form>

</h:body>

</html>