Question 7:-

Controller Class:-

package com.hellocontroller;

import java.util.ArrayList;

import javax.validation.Valid;

import org.springframework.http.MediaType;

import org.springframework.stereotype.Controller;

import org.springframework.ui.Model;

import org.springframework.validation.BindingResult;

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

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

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

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

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

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

import org.springframework.web.servlet.ModelAndView;

@Controller

public class HelloController {

@RequestMapping(value="/loginform.html", method= RequestMethod.GET)

public ModelAndView loginForm() {

ModelAndView model1= new ModelAndView("LoginForm");

return model1;

}

@ModelAttribute

public void addingCommonObjects(Model model1) {

model1.addAttribute("headerMessage","LOGIN FORM");

}

@RequestMapping(value="/success.html", method= RequestMethod.POST)

public ModelAndView submitForm(@Valid@ModelAttribute("data") Data data, BindingResult result) {

if(result.hasErrors()) {

ModelAndView model1= new ModelAndView("error");

return model1;

}

ModelAndView model1= new ModelAndView("success");

return model1;

}

Data Class:-

package com.hellocontroller;

import java.util.ArrayList;

import java.util.Date;

import javax.validation.constraints.NotNull;

import javax.validation.constraints.Size;

import com.fasterxml.jackson.annotation.JsonIgnoreProperties;

import com.fasterxml.jackson.annotation.JsonInclude;

import com.fasterxml.jackson.annotation.JsonProperty;

import com.fasterxml.jackson.annotation.JsonPropertyOrder;

public class Data {

@Size(min=2,message="required")

private String email;

@NotNull(message = "Name may not be null")

private String name;

@NotNull(message = "Password may not be null")

private String password;

@NotNull(message = "Contact may not be null")

@ContactNumberConstraint

private String contact;

private ArrayList<String> city;

@NotNull(message = "Zipcode may not be null")

private long zipcode;

public String getContact() {

return contact;

}

public void setContact(String contact) {

this.contact = contact;

}

public ArrayList<String> getCity() {

return city;

}

public void setCity(ArrayList<String> city) {

this.city = city;

}

public long getZipcode() {

return zipcode;

}

public void setZipcode(long zipcode) {

this.zipcode = zipcode;

}

public String getEmail() {

return email;

}

public void setEmail(String email) {

this.email = email;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getPassword() {

return password;

}

public void setPassword(String password) {

this.password = password;

}

}

Contact Number Validator:-

package com.hellocontroller;

import javax.validation.ConstraintValidator;

import javax.validation.ConstraintValidatorContext;

public class ContactNumberValidator implements

ConstraintValidator<ContactNumberConstraint, String> {

@Override

public void initialize(ContactNumberConstraint contactNumber) {

}

@Override

public boolean isValid(String contactField,

ConstraintValidatorContext cxt) {

return contactField != null && contactField.matches("[0-9]+")

&& (contactField.length() > 8) && (contactField.length() < 14);

}

}

ContactNumberConstraint:-

package com.hellocontroller;

import java.lang.annotation.Documented;

import java.lang.annotation.Retention;

import java.lang.annotation.Target;

import java.lang.annotation.ElementType;

import java.lang.annotation.RetentionPolicy;

import javax.validation.Constraint;

import javax.validation.Payload;

@Documented

@Constraint(validatedBy = ContactNumberValidator.class)

@Target( { ElementType.METHOD, ElementType.FIELD })

@Retention(RetentionPolicy.RUNTIME)

public @interface ContactNumberConstraint {

String message() default "Invalid phone number";

Class<?>[] groups() default {};

Class<? extends Payload>[] payload() default {};

}

Login Form:-

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

<html>

<body>

<h1>${headerMessage}</h1>

<h1>Enter your Login Details:-</h1>

<form action=*"/FirstSpringMVCProject/success.html"* method=*"post"*>

<table>

<tr>

<td>Email: <input type=*"text"* name=*"email"*/></td>

</tr>

<tr>

<td>Name: <input type=*"text"* name=*"name"*/></td>

</tr>

<tr>

<td>Password: <input type=*"password"* name=*"password"*/></td>

</tr>

<tr>

<td>Contact: <input type=*"text"* name=*"contact"*/></td>

</tr>

<tr>

<td>City :</td><td><select name=*"city"* multiple>

<option value=*"Pune"*>Pune</option>

<option value=*"Bangalore"*>Bangalore</option>

<option value=*"Mumbai"*>Mumbai</option>

</select></td>

</tr>

<tr>

<td>Zipcode: <input type=*"number"* name=*"zipcode"*/></td>

</tr>

<tr><td><input type=*"submit"* value=*"Submit"*/></td></tr>

</table>

</form>

</body>

</html>

Error Page:-

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

<!DOCTYPE html>

<html>

<head>

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

<title>ERROR</title>

</head>

<body>

<h3>You Have Some Error!!</h3>

<form:errors path=*"data.\*"*/>

</body>

</html>

Success page:-

<%@ page contentType=*"text/html; charset=UTF-8"* isELIgnored=*"false"* %>

<html>

<body>

<h1>${headerMessage}</h1>

<h3>You have logged in Successfully!!</h3>

<h2>Details submitted by you::</h2>

<table>

<tr>

<td>Your Email :</td>

<td>${data.email}</td>

</tr>

<tr>

<td>Your Name :</td>

<td>${data.name}</td>

</tr>

</table>

</body>

</html>