Quick Access

Java EE

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ow.jsp - SpringFormValidation/WebContent/WEB-INF/jsp

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
id="WebApp_ID" version="3.1">
 <display-name>SpringFormValidation</display-name>
 <welcome-file-list>
   <welcome-file>index.jsp</welcome-file>
 </welcome-file-list>
 <servlet>
        <servlet-name>spring</servlet-name>
        <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
        <load-on-startup>1</load-on-startup>
        <!-- <init-param>
                <param-name>contextConfigLocation</param-name>
                <param-value>/WEB-INF/spring-servlet.xml</param-value>
        </init-param> -->
 </servlet>
 <servlet-mapping>
        <servlet-name>spring</servlet-name>
        <url-pattern>/</url-pattern>
 </servlet-mapping>
</web-app>
```

Web.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:mvc="http://www.springframework.org/schema/mvc"
xmlns:context="http://www.springframework.org/schema/context"
xmlns:p="http://www.springframework.org/schema/p"
xsi:schemaLocation="http://www.springframework.org/schema/mvc http://www.springframework.org/schema/mvc/spring-mvc-4.0.xsd
http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans-3.2.xsd
http://www.springframework.org/schema/context http://www.springframework.org/schema/context/spring-context-4.0.xsd">

<mvc:annotation-driven/>
<context:component-scan base-package="com.spring.web.controller"/>
<bean id="customerValidation" class="com.spring.web.validation.CustomerValidation"></bean>
<bean id="messageSource" class="org.springframework.context.support.ResourceBundleMessageSource">
<property name="basename" value="validation"></property>
</bean>
<bean class="org.springframework.web.servlet.view.InternalResourceViewResolver">
<property name="prefix" value="/WEB-INF/jsp/"></property>
<property name="suffix" value=".jsp"></property>
</bean>
</beans>
```

Spring-servlet.xml

```java
package com.spring.web.bean;

public class Customer {

private int id;
private String name,address,language[],gender,password,degree;

//Generat Getters And Setteres

}
```

Bean class

```java
package com.spring.web.validation;
import org.springframework.validation.Errors;
import org.springframework.validation.ValidationUtils;
import org.springframework.validation.Validator;
import com.spring.web.bean.Customer;

public class CustomerValidation implements Validator{

public CustomerValidation() {
// TODO Auto-generated constructor stub
}
@Override
public boolean supports(Class<?> clz) {
// TODO Auto-generated method stub
return Customer.class.equals(clz);
}
```

Validation Class

```
@Override
public void validate(Object object, Errors errors) {
// TODO Auto-generated method stub
Customer customer=(Customer) object;
ValidationUtils.rejectIfEmptyOrWhitespace(errors, "name", "valid.name");
ValidationUtils.rejectIfEmptyOrWhitespace(errors, "password", "valid.password");
ValidationUtils.rejectIfEmptyOrWhitespace(errors, "address", "valid.address");
ValidationUtils.rejectIfEmptyOrWhitespace(errors, "gender", "valid.gender");
ValidationUtils.rejectIfEmptyOrWhitespace(errors, "degree", "valid.degree");

int passLength=customer.getPassword().length();
if(passLength<6 && passLength>12)
{
errors.rejectValue("password", "valid.password.range");
}


int selectedLanguages=customer.getLanguage().length;
if(selectedLanguages<1)
{
errors.rejectValue("language", "valid.language");
}
}
}
```

Validation Class

```java
package com.spring.web.controller;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.ModelMap;
import org.springframework.validation.BindingResult;
import org.springframework.validation.annotation.Validated;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.support.SessionStatus;
import org.springframework.web.servlet.ModelAndView;

import com.spring.web.bean.Customer;
import com.spring.web.validation.CustomerValidation;

@Controller
public class CustomerController {

private CustomerValidation customerValidation;
public CustomerController() {
```

Controller Class

```java
public CustomerValidation getCusomerValidation() {
return customerValidation;
}

@Autowired
public void setCusomerValidation(CustomerValidation customerValidation) {
this.customerValidation = customerValidation;
}

@RequestMapping(value="/",method=RequestMethod.GET)
public String home(){

System.out.println("Home call");
return "index";
}

@RequestMapping(value="/customer",method=RequestMethod.GET)
private ModelAndView customer()
{
System.out.println("Controller");
Customer customer=new Customer();
customer.setId(1);
ModelAndView model=new ModelAndView("customer","customer",customer);
return model;
```

Controller Class

```java
@ModelAttribute("customerDynamic")
private Map<String, List<String>> dynamic()
{
Map<String, List<String>> map=new HashMap<String, List<String>>();
List<String> languages=new ArrayList<String>();
languages.add("Java");
languages.add("Testing");
languages.add("Android");
languages.add(".Net");
languages.add("iPhone");
languages.add("PHP");

map.put("languages", languages);
List<String> education=new ArrayList<String>();
education.add("");
education.add("BE");
education.add("ME");
education.add("BCA");
education.add("MCA");
education.add("PhD");
map.put("degrees", education);
return map;
}
```

Controller Class

```java
@RequestMapping(value="/addCustomer",method=RequestMethod.POST)
private String addCustomer(@ModelAttribute("customer")@Validated Customer customer,ModelMap model,BindingResult
result,SessionStatus status)
{
String returnVal="show";
customerValidation.validate(customer, result);

if(result.hasFieldErrors())
{
returnVal="customer";
}
else
{
status.setComplete();
model.addAttribute("customer",customer);
}
return returnVal;

}
}
```

Controller Class

valid.name=Customer Name Is Required
valid.gender=Customer Gender Is Required
valid.degree=Customer Education Is Required
valid.language=Customer Language Is Required
valid.password=Customer Password Is Required
valid.address=Customer Address Is Required
valid.password.range=Customer Password Range Must Be Between 6 To 12 Character

Validation Property

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
</head>

<body>
<a href="customer">Add Customer</a>
</body>
</html>
```

Index.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
<style type="text/css">
.error{
color: red;
}
.errorBlock{
color: #000;
background-color: #ffeeee;
border: 3px solid #ff0000;
padding: 8px;
margin: 16px;
}
</style>
</head>
<body>
<form:form method="POST" action="addCustomer" commandName="customer">
<form:errors path="*" cssClass="errorBlock" element="div"></form:errors>
```

Customer.jsp

```jsp
<table>
<tr>
<td><form:label path="name">Name:</form:label></td>
<td><form:input path="name"/></td>
<td><form:errors path="name" cssclass="error"/></td>
</tr>
<tr>
<td><form:label path="password">Password:</form:label></td>
<td><form:password path="password"/></td>
<td><form:errors path="password" cssClass="error"/></td>
</tr>
<tr>
<td><form:label path="address">Address:</form:label></td>
<td><form:textarea cols="30" rows="5" path="address"/></td>
<td><form:errors path="address" cssclass="error"/></td>
</tr>
<tr>
<td><form:label path="language">Technologies:</form:label></td>
<td><form:checkboxes items="${customerDynamic.languages}" path="language"/></td>
<td><form:errors path="language" cssclass="error"/></td>
</tr>
```

Customer.jsp

```
<tr>
<td><form:label path="gender">Gender:</form:label></td>
<td><form:radiobutton path="gender" value="male"/>Male
<form:radiobutton path="gender" value="female"/>Female</td>
<td><form:errors path="gender" cssclass="error"/></td>
</tr>
<tr>
<td><form:label path="degree">Degree:</form:label></td>
<td><form:select path="degree" items="${customerDynamic.degrees}"/></td>
<td><form:errors path="degree" cssclass="error"/></td>
</tr>
<tr>
<td colspan="3">
<form:hidden path="id"/>
<input type="submit" name="submit" value="Add Customer">
</td>
</tr>
</table>
</form:form>
</body>
</html>
```

Customer.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
Id:${customer.id}<br>
Name:${customer.name}<br>
Password:${customer.password}<br>
Address:${customer.address}<br>
Gender:${customer.gender}<br>
Technologies:
<c:forEach var="lang" items="${customer.language}">
<c:out value="${lang}"></c:out>
</c:forEach><br>
Education:${customer.degree}<br>
</body>
</html>
```

Show.jsp