



Spring Web MVC – II

Spring's Form Tags

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Using Spring's form tag library

1. As of version 2.0, spring provides a comprehensive set of data binding-aware tags for handling form elements when using JSP and Spring Web MVC.
2. Each tag provides support for the set of attributes of its corresponding HTML tag.
3. The tag-generated HTML is HTML 4.01/XHTML 1.0 compliant.

Configuration of Spring's Form Tags

The **form** tag library comes bundled in **spring-webmvc.jar**. The library descriptor is called **spring-form.tld**.

To use the tags from this library, add the following directive to the top of your JSP page:

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

Here **form** is the tag name prefix you want to use for the tags from this library.

Table of Spring's Form tags

Tags	Description
<form:form method="POST" model Attribute="" >	Root Element of Spring's form tags
<form:input path="firstName" />	Convert into HTML type="text"
<form:checkbox path="" value="" />	Convert into type="checkbox"
<form:checkboxes path="" items="\$ {}" />	Multiple Checkboxes
<form:radiobutton path="sex" value="M" /> <form:radiobutton path="sex" value="M" />	Type="radio" to create radio button's group
<form:radiobutton path="sex" items="\$ {}" />	Group of radio buttons
<form:password path="" />	
<form:select path="skills" items="\$ {skills}" /> <select name="skills" multiple="true"> <option value="" >J2EE</option> <option value="" >Spring</option> <option value="" >Hibernate</option> </select>	Selection list Multi select list
<form:select path="skill"> <form:option value="J2EE" /> <form:option value="Spring" /> <form:option value="J2EE" /> </form:select>	Selection list
<form:options items="\$ {}" itemValue="" itemLabel="" />	Sub-element of list
<form:textarea path="notes" rows="3" cols="20" />	Type="textarea" no. of rows and columns
<form:errors path="notes" />	To display the error message
<form:hidden path="" />	Type="hidden" –hidden form field

Spring Form Tags

User Name:

Gender: ☐ Male ☐ Female

Hobbies: ☐ Coding ☐ Designing ☐ Testing

Skills:

Password:

Address:

pom.xml

```
<dependencies>
  <dependency>
    <groupId>jstl</groupId>
    <artifactId>jstl</artifactId>
    <version>1.2</version>
  </dependency>

  <dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-webmvc</artifactId>
    <version>4.3.5.RELEASE</version>
  </dependency>
</dependencies>
```

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://java.sun.com/xml/ns/javaee"
  xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
  http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd" id="WebApp_ID" version="3.0">

  <display-name>Archetype Created web Application</display-name>

  <servlet>
    <servlet-name>dispatcher</servlet-name>
```

```

        <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
        <load-on-startup>1</load-on-startup>
    </servlet>
    <servlet-mapping>
        <servlet-name>dispatcher</servlet-name>
        <url-pattern>/</url-pattern>
    </servlet-mapping>

</web-app>

```

dispatcher-servlet.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:context="http://www.springframework.org/schema/context"
    xmlns:mvc="http://www.springframework.org/schema/mvc"
    xsi:schemaLocation="http://www.springframework.org/schema/beans
        http://www.springframework.org/schema/beans/spring-beans.xsd
        http://www.springframework.org/schema/context
        http://www.springframework.org/schema/context/spring-context.xsd
        http://www.springframework.org/schema/mvc
        http://www.springframework.org/schema/mvc/spring-mvc.xsd">

    <mvc:annotation-driven />
    <context:component-scan base-package="com.Biditvats.*" />
    <mvc:resources location="/resources/" mapping="/resources/**" />

    <bean id="viewResolver" class="org.springframework.web.servlet.view.InternalResourceViewResolver">
        <property name="prefix" value="/WEB-INF/views/" />
        <property name="suffix" value=".jsp" />
    </bean>

</beans>

```

welcome.jsp

```

<% @ page isELIgnored="false" language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<% @ 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=UTF-8">
<title>Spring's Form Tags</title>
</head>
<body>
    <h1>Spring Form Validation</h1>
    <form:form method="POST" modelAttribute="user" action="register">
        <table>
            <tr>
                <td>User Name:</td>
                <td><form:input path="userName"/></td>
            </tr>

```

```

        <tr>
            <td>Gender:</td>
            <td>
                <form:radiobutton path="gender" value="Male"/>Male
                <form:radiobutton path="gender" value="Female"/>Female
            </td>
        </tr>
        <tr>
            <td>Hobbies:</td>
            <td>
                <form:checkbox path="hobbies" value="Coding"/>Coding
                <form:checkbox path="hobbies" value="Designing"/>Designing
                <form:checkbox path="hobbies" value="Testing"/>Testing
            </td>
        </tr>
        <tr>
            <td>Skills:</td>
            <td>
                <form:select multiple="true" path="skills">
                    <option value="J2EE">J2EE</option>
                    <option value="Spring">SPRING</option>
                    <option value="Hibernate">HIBERNATE</option>
                </form:select>
            </td>
        </tr>
        <tr>
            <td>Password:</td>
            <td>
                <form:password path="password"/>
            </td>
        </tr>
        <tr>
            <td>Address:</td>
            <td><form:textarea path="address" rows="4" cols="40"/></td>
        </tr>
        <tr>
            <td colspan="2">
                <input type="submit" value="submit">
            </td>
        </tr>
    </table>
</form:form>
</body>
</html>

```

regSuccess.jsp

```

<% @ page isELIgnored="false" language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<% @ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<!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=UTF-8">
<title>Show User Details</title>

```

```

</head>
<body>
    <h1>User Details</h1>
    <p>User Name: ${user.userName}</p>
    <p>Gender: ${user.gender}</p>
    <p>Hobbies:
        <c:forEach begin="0" items="${user.hobbies}" var="hob">
            <c:out value="${hob}"></c:out>
        </c:forEach>
    </p>
    <p>Skills:
        <c:forEach begin="0" items="${user.skills}" var="skill">
            <c:out value="${skill}"></c:out>
        </c:forEach>
    </p>
    <p>Password: ${user.password}</p>
    <p>Address: ${user.address}</p>
</body>
</html>

```

User.java

```

package com.Biditvats.spring.bean;

import org.springframework.stereotype.Component;

@Component("user")
public class User {
    private String userName;
    private String gender;
    private String[] hobbies;
    private String[] skills;
    private String password;
    private String address;

    public User() {
        System.out.println("User object is created");
    }

    //Getters and Setters
}

```

UserController.java

```

package com.Biditvats.spring.controller;

import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.servlet.ModelAndView;

import com.Biditvats.spring.bean.User;

@Controller

```

```
public class UserController {

    @RequestMapping("/")
    public String userForm(Model model) {
        User user = new User();
        model.addAttribute("user", user);
        return "welcome";
    }

    @RequestMapping("/register")
    public ModelAndView registerUser(@ModelAttribute User user) {
        return new ModelAndView("regSuccess", "user",user);
    }
}
```