2018

Java EE框架 ---Struts2

Java EE framework --Struts2

王磊

部门:研发部

CONTENTS









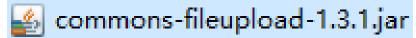
一、创建JavaWeb项目

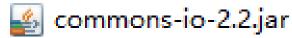
- 1、新建Dynamic Web Project
- 2、引入最小Struts2 jar包
- 3、构建路径
- HelloWorld_Struts2
 - > 🛅 Deployment Descriptor: HelloWorld_Struts2
 - > A JAX-WS Web Services
 - > 🅦 Java Resources
 - > Maya Script Resources
 - > 🃂 build
 - WebContent
 - > > META-INF
 - > 📂 WEB-INF

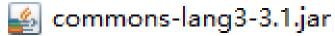
二、搭建Stust2 FrameWork开发环境

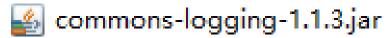
4、加入搭建Struts2 FrameWork开发环境的必需Jar包











🕌 freemarker-2.3.19.jar

🕍 javassist-3.11.0.GA.jar

🔬 ognl-3.0.6.jar

🔬 struts2-core-2.3.16.1.jar

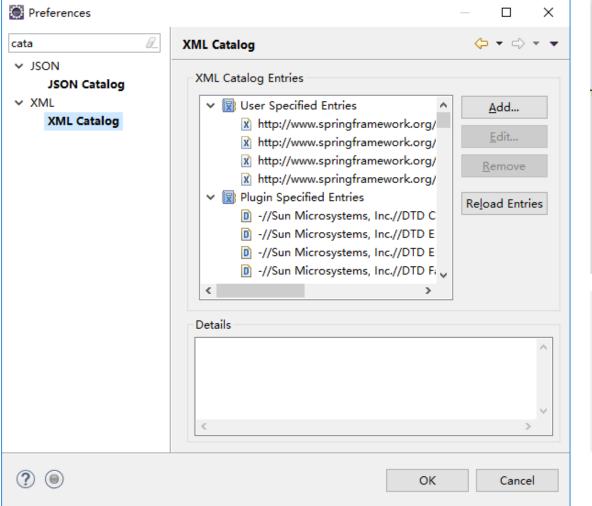
🕍 xwork-core-2.3.16.1.jar

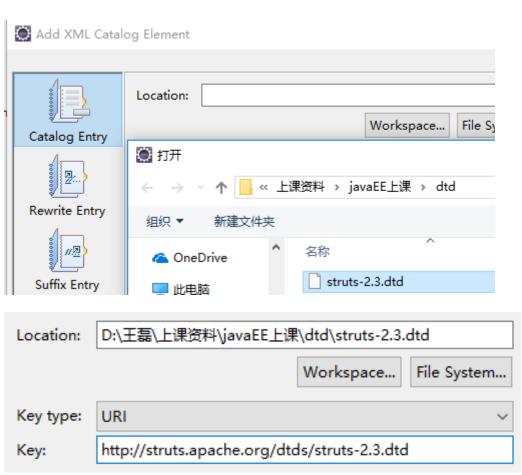
x web.xml

·二、搭建Stust2 FrameWork开发环境·

src目录下创建"struts.xml"文件,需要导入dtd约束。 在无法联网的情况下,需要设置XML Catalog。

1 <?xml version="1.0" encoding="UTF-8"?>





二、搭建Stust2 FrameWork开发环境·

先把 "struts.xml" 框架结构写好。

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE struts PUBLIC</pre>
    "-//Apache Software Foundation//DTD Struts Configuration 2.3//EN"
    "http://struts.apache.org/dtds/struts-2.3.dtd">
    <struts>
        <constant name="" value=""></constant>
        <package name="" namespace="" extends="">
            <action name="" class="" method="">
                <result name=""></result>
            </action>
        </package>
    </struts>
```

二、搭建Stust2 FrameWork开发环境·

src目录下创建"struts.xml"文件 在strusts.xml文件中加入如下配置信息

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE struts PUBLIC</pre>
    "-//Apache Software Foundation//DTD Struts Configuration 2.3//EN"
    "http://struts.apache.org/dtds/struts-2.3.dtd">
   <struts>
        <constant name="struts.devMode" value="true"></constant>
        <package name="HelloWord Struts2" namespace="/" extends="struts-default">
            <action name="index" class="com.xk.action.HelloAction" method="execute">
                <result name="success">index.jsp</result>
            </action>
        </package>
    </struts>
                                                                       可以省略
```

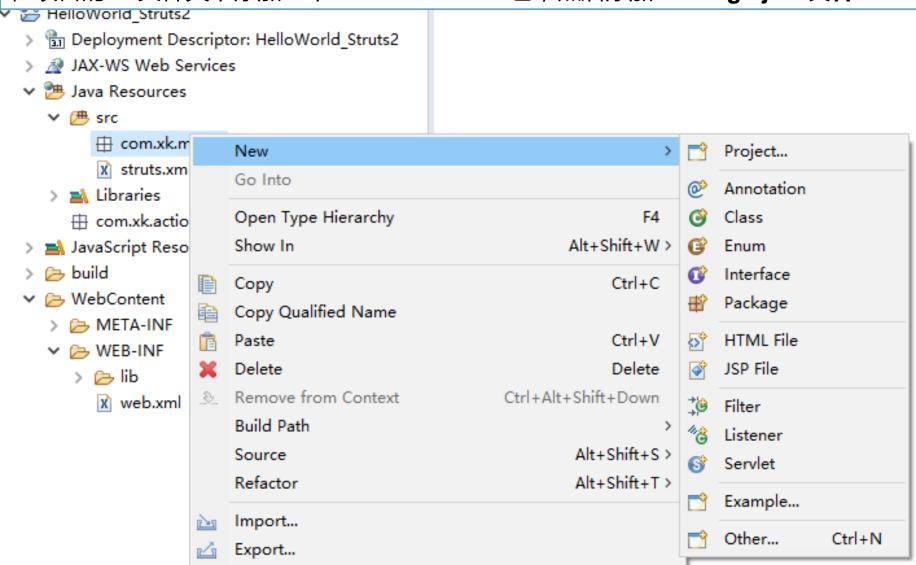
二、搭建Stust2 FrameWork开发环境

在web.xml文件中配置Struts2的核心过滤器(红色部分)

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</pre>
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>HelloWorld_Struts2</display-name>
 <welcome-file-list>
  <welcome-file>index.html</welcome-file>
</welcome-file-list>
 <filter>
   <filter-name>struts2</filter-name>
   <filter-class> org.apache.struts2.dispatcher.ng.filter.StrutsPrepareAndExecuteFilter </filter-class>
 </filter>
 <filter-mapping>
   <filter-name>struts2</filter-name>
   <url-pattern>/*</url-pattern>
 </filter-mapping>
</web-app>
```

三、创建Model类Message

在项目的src文件夹下添加一个 "com.xk.model"包,然后添加Message.java文件



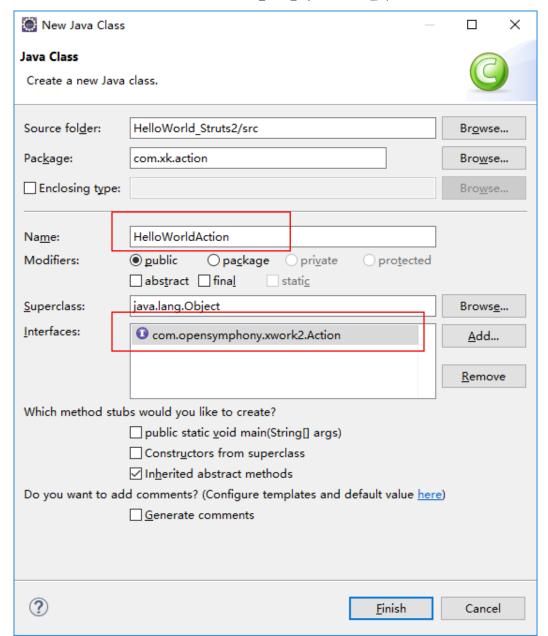
三、创建Model类Message

打开"Message.java", 编写如下代码:

```
☑ Message.java 
☒

 1 package com.xk.model;
 2 public class Message {
        private String message;
        public Message(String message) {
 4⊖
            this.message = message;
        public String getMessage() {
 7⊖
            return message;
10⊜
        public void setMessage(String message) {
            this.message = message;
13
```

四、创建Action类HelloWorldAction



在项目的src文件夹下添加一个 "HelloWorldAction.java"文件,放到 "com.xk.action"包中。 注意:

com.opensymphony.xwork2.Action继承自ActionSupport类。

四、创建Action类HelloWorldAction。

点击Finish完成添加,此时在src文件夹下就可以看到 "HelloWorldAction.java"文件

- → № HelloWorld_Struts2
 - > 🛅 Deployment Descriptor: HelloWorld_Struts2
 - JAX-WS Web Services
 - ▼ 2 Java Resources
 - - - > I HelloWorldAction.java
 - ▼

 ⊕ com.xk.model

 - x struts.xml

四、创建Action类HelloWorldAction

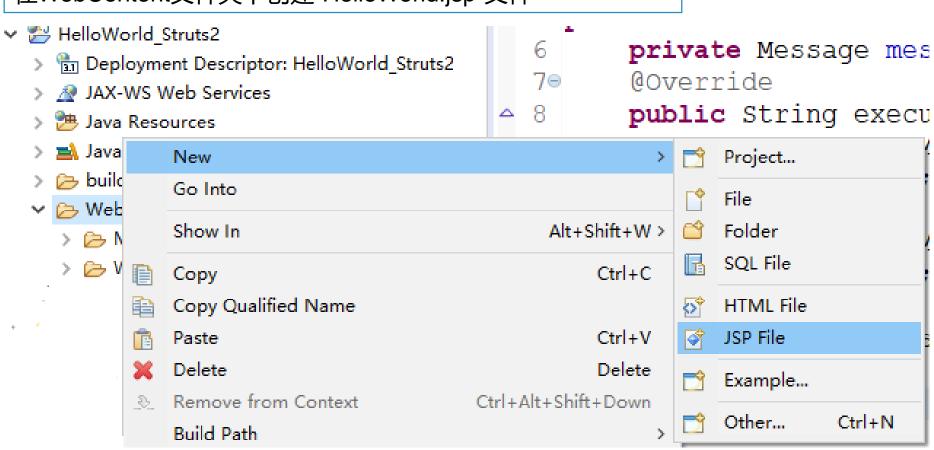
在 "HelloWorldAction.java"文件中编写如下代码:

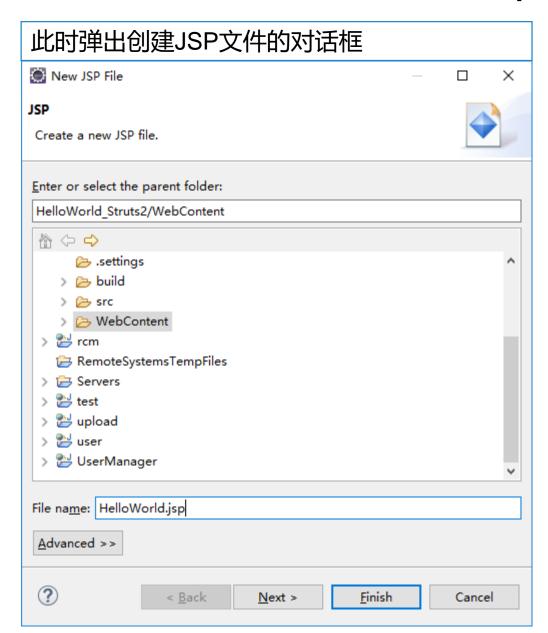
```
→ HelloWorldAction.java 

□

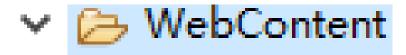
 1 package com.xk.action;
 2@import com.opensymphony.xwork2.Action;
 3 import com.xk.model.Message;
   public class HelloWorldAction implements Action {
        private Message message;
        @Override
        public String execute() throws Exception {
            message = new Message("Hello World!");
            return SUCCESS;
10
11
12⊜
        public Message getMessage() {
13
            return message;
14
15⊜
        public void setMessage(Message message) {
16
            this.message = message;
17
```

在WebContent文件夹下创建"HelloWorld.jsp"文件





点击Finish完成添加,此时在WebRoot文件夹下就可以看到"HelloWorld.jsp"文件。



- > B META-INF
- > > WEB-INF
 - HelloWorld.jsp

在HelloWorld.jsp编写如下代码

```
■ HelloWorld.jsp \(\omega\)
 1 < @ page language="java" contentType="text/html; charset=UTF-8"
       pageEncoding="UTF-8"%>
 3 <%@ taglib prefix="s" uri="/struts-tags" %>
 4 <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http
 50<html>
 60 < head>
 7 <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
 8 <title>Struts2 Application</title>
 9 </head>
10@ <body>
        <h2><s:property value="message.message" /></h2>
12 </body>
13 </html>
```

六、配置struts.xml・

在struts.xml中加入红色部分的配置信息

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE struts PUBLIC</pre>
  "-//Apache Software Foundation//DTD Struts Configuration 2.3//EN"
  "http://struts.apache.org/dtds/struts-2.3.dtd">
<struts>
  <constant name="struts.devMode" value="true" />
  <package name="Hello_World_Struts2" extends="struts-default">
    <action name="index">
       <result>/index.jsp</result>
    </action>
    <action name="hello"
       class="com.xk.action.HelloWorldAction" method="execute">
       <result name="success">/HelloWorld.jsp</result>
    </action>
  </package>
</struts>
```

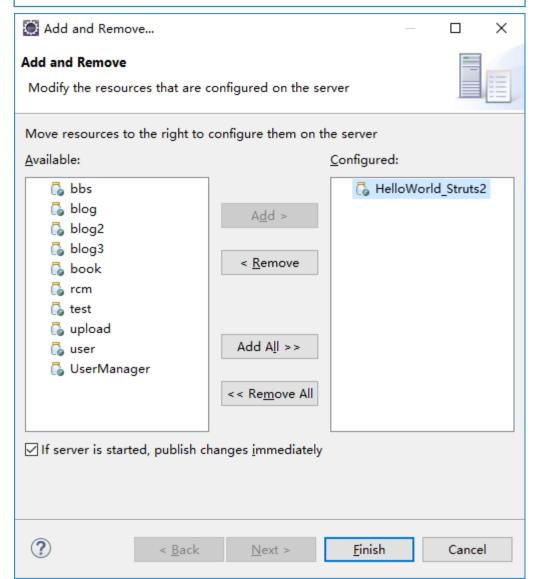
·七、创建Action的URL链接

在index.jsp中添加Action的URL链接,index.jsp中的代码如下:

```
1 < @ page language="java" contentType="text/html; charset=UTF-8"
       pageEncoding="UTF-8"%>
 3 <%@ taglib prefix="s" uri="/struts-tags" %>
 4 <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http:/
 50<html>
 60 < head>
 7 <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
 8 <title>Struts 2 Application</title>
 9 </head>
10@<body>
       <h1>Welcome To Struts2!</h1>
       <a href="<s:url action='hello'/>">Hello World</a>
13 </body>
14 </html>
```

"<%@ taglib prefix="s" uri="/struts-tags" %>"表示引入struts2的标签,"<s:url action>"是一个Struts2的标签,用于创建Action的URL链接,"<s:url action='hello'/>"表示链接到一个名字为"hello"的action。

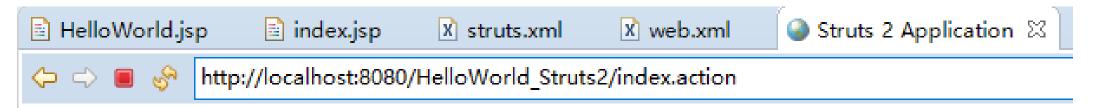
将项目发布到Tomcat服务器中,如图所示



发布成功后就可以在Tomcat服务器中看到,如下图所示:

- ▼ Tomcat v8.5 Server at localhost [Started, Restart]
 - HelloWorld_Struts2 [Synchronized]

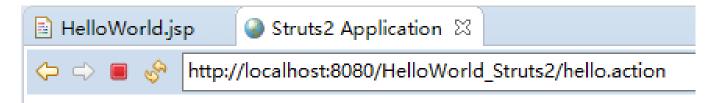
打开浏览器,在浏览器中输入<u>http://localhost:8080/HelloWorld_Struts2/index.action</u>,此时就可以看到运行效果,如下图所示:



Welcome To Struts2!

Hello World

点击 "HelloWorld" 超链接,此时看到的效果如下:



Hello World!

·使用Struts2编写HelloWord程序成功!







可以在此基础上,进一步拓展业务逻辑层,链接后台数据库,写出更为复杂的框架程序