

Java Web 高级编程 Homework

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班级：14 级 Java 一班

Info:

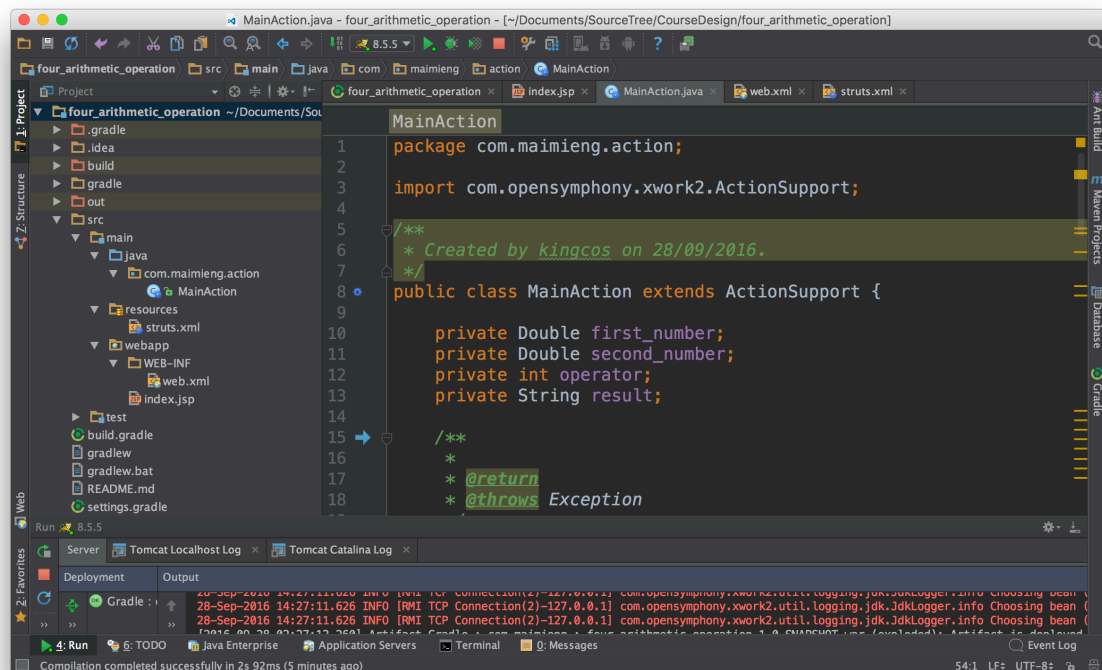
- macOS 10.12.1 beta
- IntelliJ IDEA 2016.2.3
- JDK 1.8
- Struts 2.3.30
- Tomcat 8.5.5

一 . 四则运算

代码托管地址

https://github.com/kingcos/CourseDesign/tree/master/four_arithmetic_operation

目录结构



web.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"
    version="3.1">

    <filter>
        <filter-name>struts2</filter-name>
        <filter-
class>org.apache.struts2.dispatcher.ng.filter.StrutsPrepareAndExecuteFilter</filt
er-class>
    </filter>

    <filter-mapping>
        <filter-name>struts2</filter-name>
        <url-pattern>/*</url-pattern>
    </filter-mapping>

</web-app>
```

struts.xml

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

<!DOCTYPE struts PUBLIC
    "-//Apache Software Foundation//DTD Struts Configuration 2.3//EN"
    "http://struts.apache.org/dtds/struts-2.3.dtd">

<struts>
    <package name="four_arithmetic_operation" extends="struts-default">
        <action name="Calculate" class="com.maimieng.action.MainAction">
            <result name="success">/index.jsp</result>
        </action>
    </package>
</struts>
```

index.jsp

```
<%--
    Created by IntelliJ IDEA.
    User: kingcos
    Date: 27/09/2016
    Time: 11:46 PM
    To change this template use File | Settings | File Templates.
--%>
<%@ page contentType="text/html; charset=UTF-8" language="java" %>
<%@ taglib uri="/struts-tags" prefix="s" %>
<html>
<head>
    <title>Demo</title>
</head>
<body>
<form action="Calculate" style="text-align:center;">
    <s:textfield name="first_number"/>
    <s:select
        name="operator"
        list="#{1:'+', 2:'-', 3:'*', 4:'/'}"
        listValue="value"
        headerKey="-1"
        headerValue="--运算符--"/>
```

```
<s:textfield name="second_number"/>
<button type="submit"></button>
<s:property value="result"/>
</form>
</body>
</html>
```

MainAction.java

```
package com.maimieng.action;

import com.opensymphony.xwork2.ActionSupport;

/**
 * Created by kingcos on 28/09/2016.
 */
public class MainAction extends ActionSupport {

    private Double first_number;
    private Double second_number;
    private int operator;
    private String result;

    /**
     * @return
     * @throws Exception
     */
    @Override
    public String execute() throws Exception {
        String res = calculate();
        result = res;
        return SUCCESS;
    }

    /**
     * 将计算结果作为字符串返回。
     * @return
     */
    public String calculate() {
        String res = "0.0";

        if (first_number == null || second_number == null || operator == -1) {
            res = "ERROR";
        } else {
            if (operator == 1) {
                res = "" + (first_number + second_number);
            } else if (operator == 2) {
                res = "" + (first_number - second_number);
            } else if (operator == 3) {
                res = "" + (first_number * second_number);
            } else if (operator == 4) {
                if (second_number.equals(0.0)) {
                    res = "ERROR";
                } else {
                    res = "" + (first_number / second_number);
                }
            }
        }

        return res;
    }

    public double getFirst_number() {
        return first_number;
    }
}
```

```

    public void setFirst_number(Double first_number) {
        this.first_number = first_number;
    }

    public double getSecond_number() {
        return second_number;
    }

    public void setSecond_number(Double second_number) {
        this.second_number = second_number;
    }

    public int getOperator() {
        return operator;
    }

    public void setOperator(int operator) {
        this.operator = operator;
    }

    public String getResult() {
        return result;
    }

    public void setResult(String result) {
        this.result = result;
    }
}

```

二 . DMI 登录注册

代码托管地址

https://github.com/kingcos/CourseDesign/tree/master/dynamic_method_invocation

struts.xml

```

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

<!DOCTYPE struts PUBLIC
    "-//Apache Software Foundation//DTD Struts Configuration
    2.3//EN"
    "http://struts.apache.org/dtds/struts-2.3.dtd">

<struts>
    <package name="dynamic_method_invocation" extends="struts-
    default">
        <action name="user_*" class="com.maimieng.action.MainAction"
        method="{1}">
            <result name="success">/login_success.jsp</result>
            <result name="login">/login.jsp</result>
            <result name="register_failed">/index.jsp</result>
        </action>
    </package>
</struts>

```

index.jsp

```

<%--
    Created by IntelliJ IDEA.
    User: kingcos
    Date: 28/09/2016
    Time: 2:42 PM
    To change this template use File | Settings | File Templates.
--%>
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<%@ taglib prefix="s" uri="/struts-tags" %>
<html>
<head>
    <title>注册</title>
</head>
<body>
<s:form action="user_register">
    <s:property value="failedMessage"></s:property>
    <s:textfield name="user.username" label="用户名"
"></s:textfield><br>
    <s:password name="user.password" label="密码"></s:password>
    <s:submit value="注册"></s:submit>
</s:form>
</body>
</html>

```

login.jsp

```

<%--
    Created by IntelliJ IDEA.
    User: kingcos
    Date: 28/09/2016
    Time: 2:42 PM
    To change this template use File | Settings | File Templates.
--%>
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<%@ taglib prefix="s" uri="/struts-tags" %>
<html>
<head>
    <title>登陆</title>
</head>
<body>
<s:form action="user_login">
    <s:property value="failedMessage"></s:property>
    <s:textfield name="user.username" label="用户名"
"></s:textfield><br>
    <s:password name="user.password" label="密码"></s:password>
    <s:submit value="登陆"></s:submit>
</s:form>
</body>
</html>

```

login_success.jsp

```

<%--
    Created by IntelliJ IDEA.

```

```
User: kingcos
Date: 28/09/2016
Time: 3:35 PM
To change this template use File | Settings | File Templates.
--%>
<%@ page contentType="text/html; charset=UTF-8" language="java" %>
<%@ taglib prefix="s" uri="/struts-tags" %>
<html>
<head>
  <title>Success</title>
</head>
<body>
  <s:property value="user.username"></s:property>
  <h1>Success</h1>
</body>
</html>
```

User.java

```
package com.maimieng.entity;

/**
 * Created by kingcos on 28/09/2016.
 */
public class User {
    private String username;
    private String password;

    public String getUsername() {
        return username;
    }

    public void setUsername(String username) {
        this.username = username;
    }

    public String getPassword() {
        return password;
    }

    public void setPassword(String password) {
        this.password = password;
    }
}
```

MainAction.java

```
package com.maimieng.action;

import com.maimieng.entity.User;
import com.opensymphony.xwork2.ActionContext;
import com.opensymphony.xwork2.ActionSupport;
```

```

/**
 * Created by kingcos on 28/09/2016.
 */
public class MainAction extends ActionSupport {

    private User user;
    private String failedMessage;

    public String register() {
        if (user != null) {
            if (!user.getUsername().equals("")
            && !user.getPassword().equals("")) {
                ActionContext.getContext().getSession().put("username",
                user.getUsername());

                ActionContext.getContext().getSession().put("password",
                user.getPassword());
                return LOGIN;
            }

            failedMessage = "注册失败";
            return "register_failed";
        }

        public String login() {
            if (user != null) {
                if (!user.getUsername().equals("")
                && !user.getPassword().equals("")) {
                    String un =
                    (String)ActionContext.getContext().getSession().get("username");
                    String pwd =
                    (String)ActionContext.getContext().getSession().get("password");
                    if (un.equals(user.getUsername()) &&
                    pwd.equals(user.getPassword())) {
                        return SUCCESS;
                    }
                }
            }

            failedMessage = "登录失败";
            return LOGIN;
        }

        public User getUser() {
            return user;
        }

        public void setUser(User user) {
            this.user = user;
        }

        public String getFailedMessage() {
            return failedMessage;
        }
    }
}

```

```
public void setFailedMessage(String failedMessage) {  
    this.failedMessage = failedMessage;  
}  
}
```