# STRUTS 2.0 BASIC PART 1

**START** ≫

# *Learning Goals*

After the course, attendees will be able to:

▶ Understand Struts

▶ Know how to write a Web application with Struts 2.0

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04e-BM/NS/HDCV/FSOFT v2/3

# *Trainee's missions*

To complete this course and achieve goals, trainees must:

▶ **Read Lecture, Reference**

▶ **Do Exercises**

▶ **Take quiz**

▶ **Complete Assignment**

- Struts2 is popular and mature web application framework based on the MVC design pattern.

- The WebWork framework started off with Struts framework as the basis and its goal was to offer an enhanced and improved framework built on Struts **to make web development easier for the developers**.
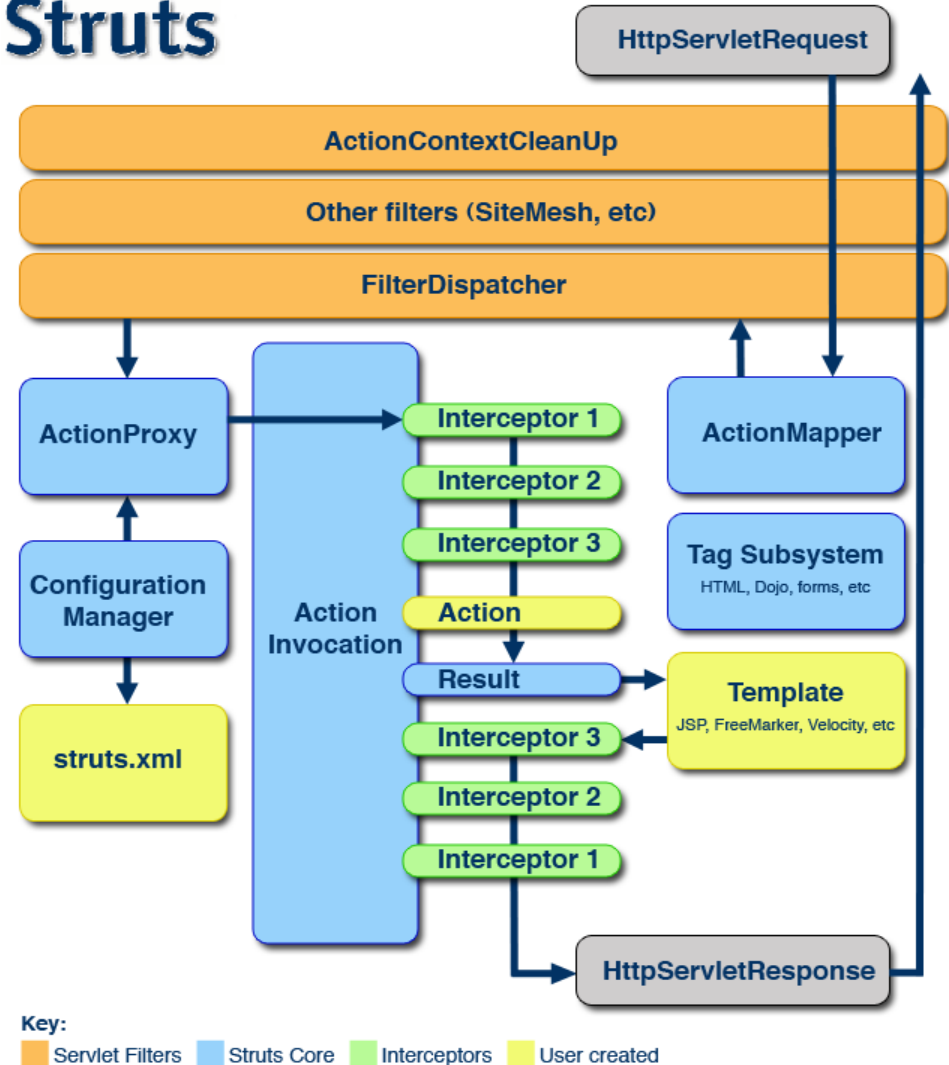
- The Webwork framework and the Struts community joined hands to create the famous Struts2 framework.
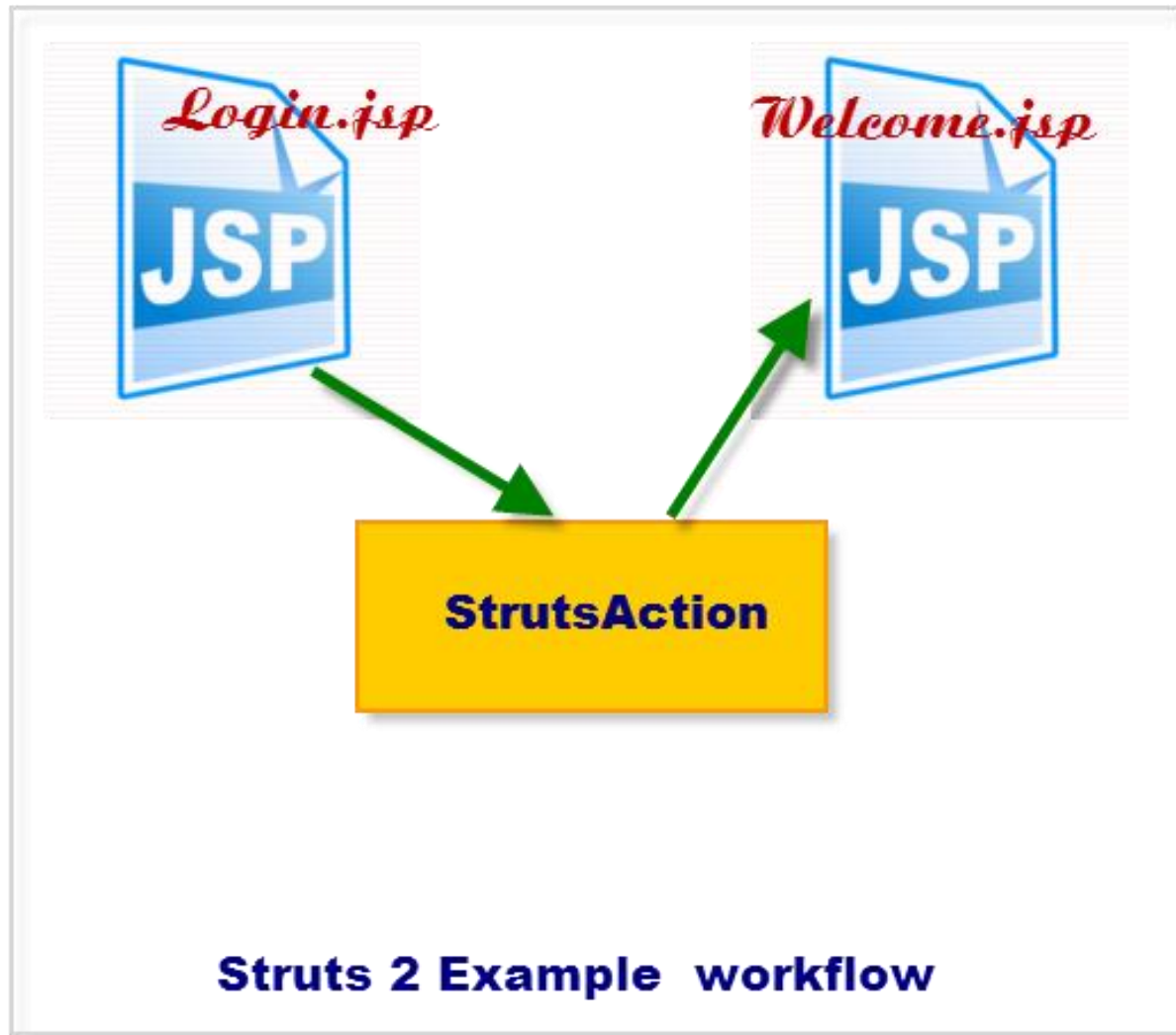
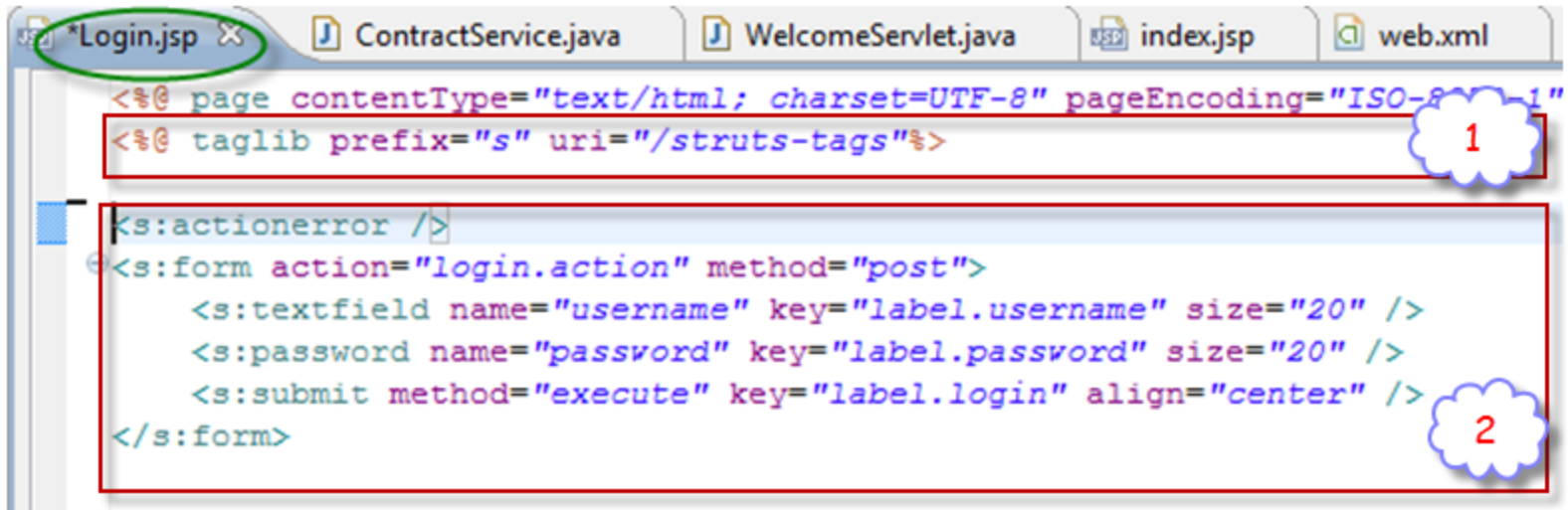Is a pull-MVC framework. MVC pattern in Struts2 is realized with following five core component:

- ActionMapper
- FilterDispatcher
- Configuration Manager
- ActionInvocation
- Tag Subsystem

# Create Struts2 Example



Struts 2 Example workflow

# JSP Pages

# LoginAction



-The execute() method returns a String value which will determine the result page
- Method execute() is the default method getting called by Sturts2

# web.xml configuration

Default in WebContent/WEB-INF folder.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app id="WebApp_9" version="2.4"
    xmlns="http://java.sun.com/xml/ns/j2ee"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://java.sun.com/xml/ns/j2ee http://java.sun.com/xml/n

    <display-name>Struts2 Application</display-name>
    <filter>
        <filter-name>struts2</filter-name>
        <filter-class>
            org.apache.struts2.dispatcher.FilterDispatcher
        </filter-class>
    </filter>
    <filter-mapping>
        <filter-name>struts2</filter-name>
        <url-pattern>/*</url-pattern>
    </filter-mapping>
    <welcome-file-list>
        <welcome-file>Login.jsp</welcome-file>
    </welcome-file-list>
</web-app>
```

**1**

**2**

# Application.properties

# struts.xml configuration

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE struts PUBLIC
    "-//Apache Software Foundation//DTD Struts Configuration 2.0//EN"
    "http://struts.apache.org/dtds/struts-2.0.dtd">

<struts>
    <constant name="struts.enable.DynamicMethodInvocation"
        value="false" />
    <constant name="struts.devMode" value="false" />
    <constant name="struts.custom.i18n.resources"
        value="ApplicationResources" />


    <package name="default" extends="struts-default" namespace="/">
        <action name="login"
            class="net.viralpatel.struts2.LoginAction">
            <result name="success">Welcome.jsp</result>
            <result name="error">Login.jsp</result>
        </action>
    </package>
</struts>
```
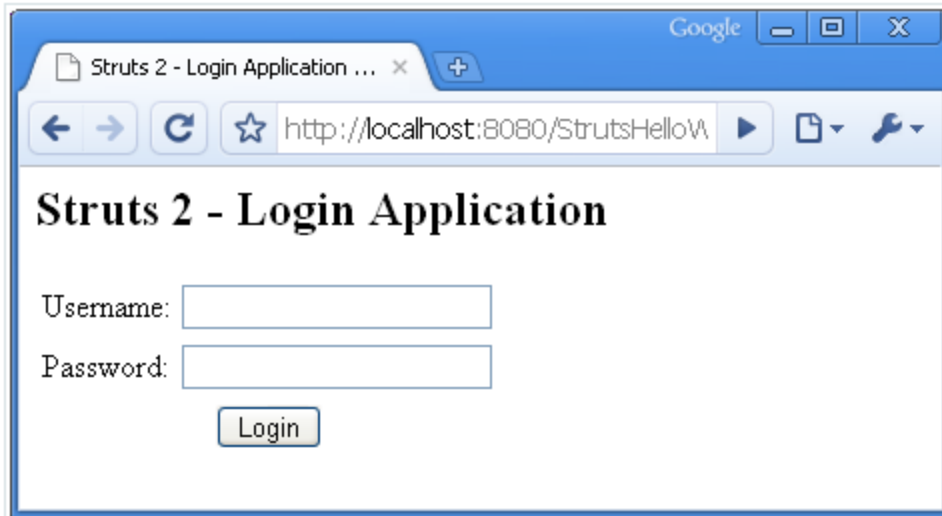
1

2

# Run Application
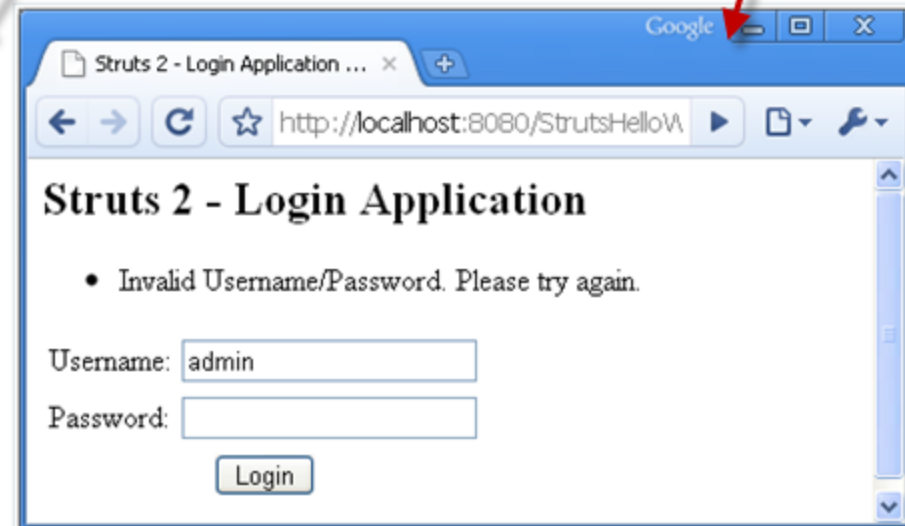
- Struts2: a web application framework based on the MVC
- Support POJO Action, **execute**() is the default method getting called by Sturts2
- Action class can extend **Support Action**
- Use **ResourceBundle** to help in putting the static content away from the source file
- Struts 2 uses struts.xml configuration file