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Struts As a MVC Framework

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Learning goals

- Understand Struts1 and How to struts work
- Can build web applications with Struts1 Framework

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- How to Struts1 work
- Create Example
- Action
- Ation Form
- Struts configuration

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Trainee's mission

Read Lecture,Reference

Do Exercises

Take quiz

Complete Assignment

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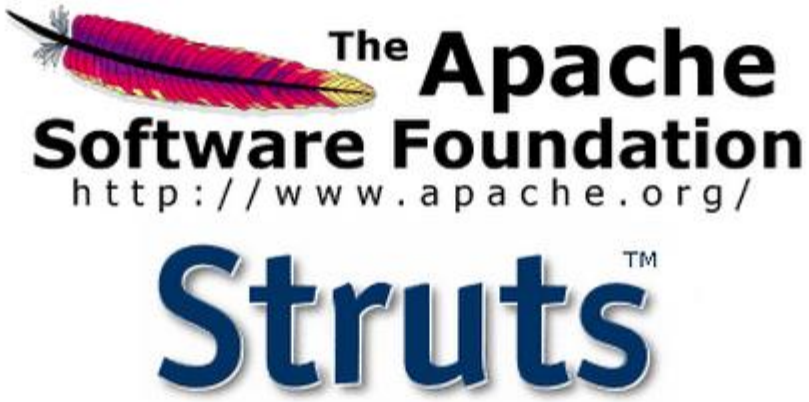
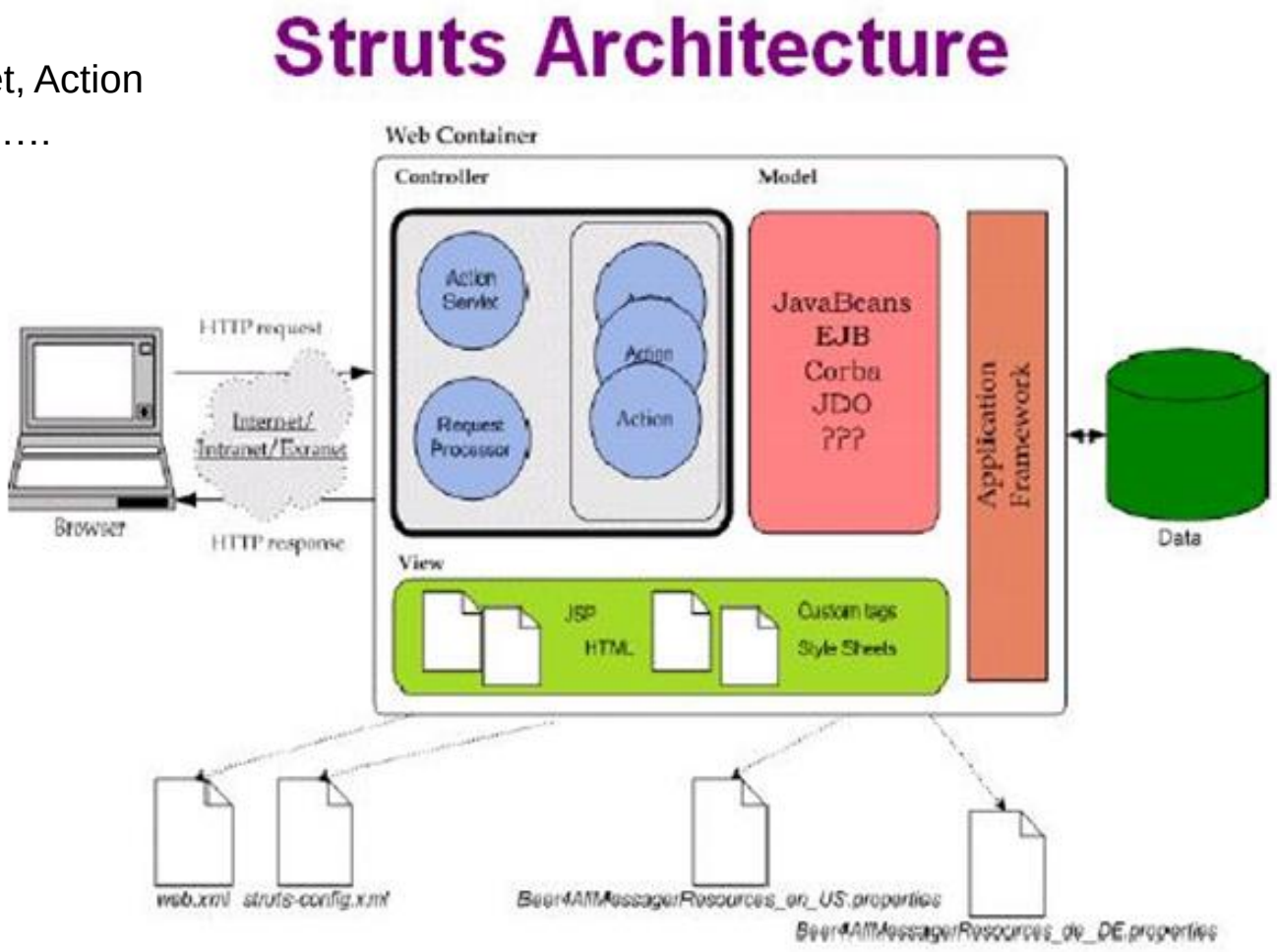
What Are Struts1?

- Apache's open source web application model view controller framework project!
- Takes MVC to the next level for web applications.



Struts 1 Architecture

- View: JSP, HTML
- Controller: ActionServlet, Action
- Model: JavaBean, EJB,….



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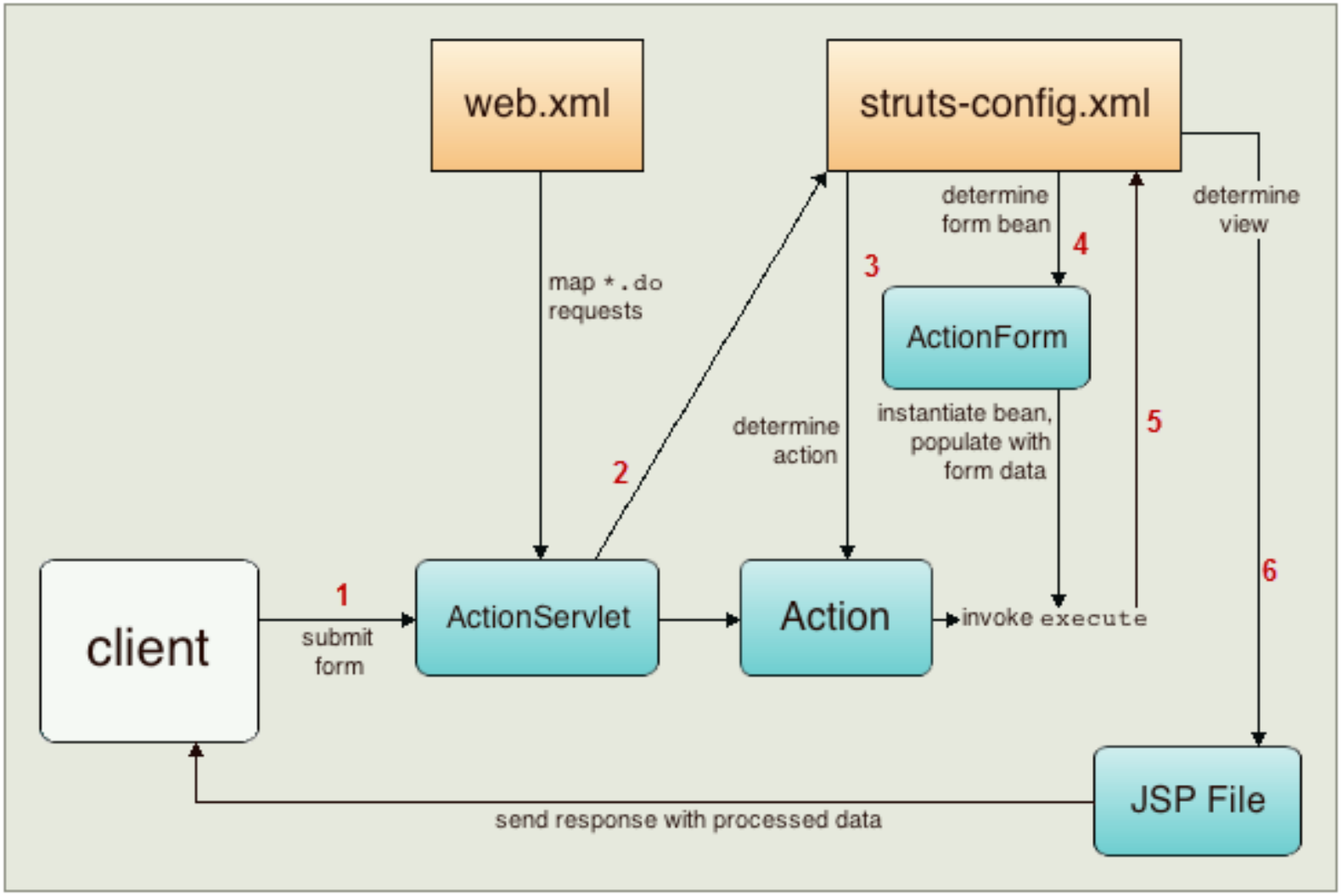
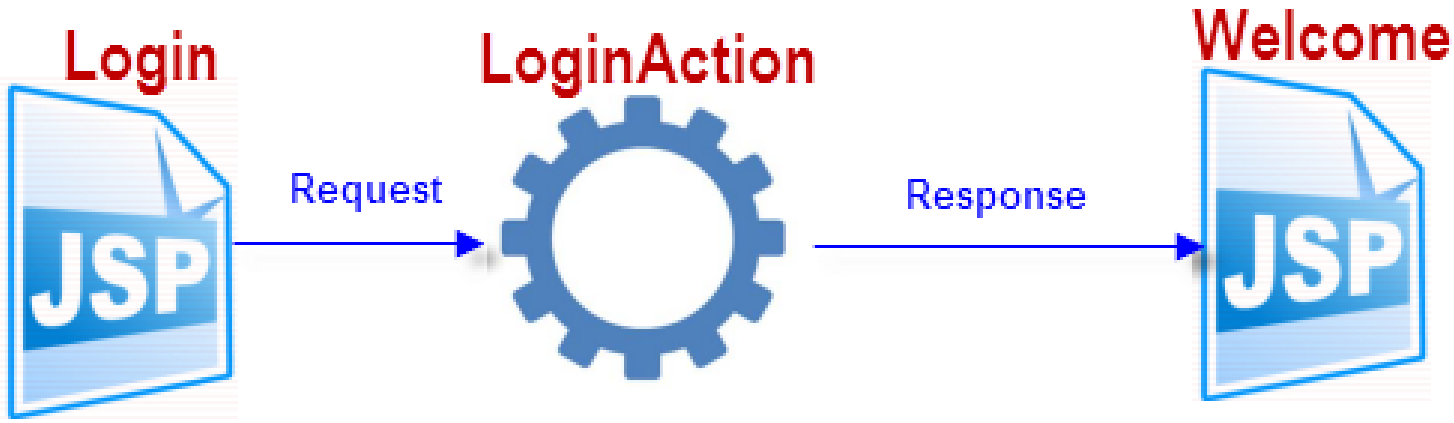
How to Struts1 work



Create Example



Example workflow

Struts-config.xml

struts-config.xml

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

<!DOCTYPE struts-config PUBLIC
          "-//Apache Software Foundation//DTD Struts Configuration 1.3//EN"
          "http://struts.apache.org/dtds/struts-config_1_3.dtd">

<struts-config>

    <form-beans>
        <form-bean name="loginForm" type="struts1.demo.form.LoginForm"/>
    </form-beans>

    <action-mappings>
        <action name="loginForm" path="/login" type="struts1.demo.action.LoginAction" input="/Login.jsp">
            <forward name="failure" path="/Login.jsp" redirect="true"/>
            <forward name="success" path="/Welcome.jsp" redirect="true"/>
        </action>

    </action-mappings>

</struts-config>
```

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Action

LoginAction.java

```
package struts1.demo.action;
 *author:ThuanVD3.

import javax.servlet.http.HttpServletRequest;


public class LoginAction extends Action {
    @Override
    public ActionForward execute(ActionMapping mapping, ActionForm form,
            HttpServletRequest request, HttpServletResponse response)
            throws Exception {
        LoginForm loginForm = (LoginForm) form;

        if (loginForm.getUserName() == null || loginForm.getPassword() == null
                || !loginForm.getUserName().equalsIgnoreCase("helios")
                || !loginForm.getPassword().equals("helios")) {
            return mapping.findForward("failure");
        } else
            request.getSession().setAttribute("name", loginForm.getUserName());
            return mapping.findForward("success");
    }

}
```

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Action Form

LoginForm.java

```
import javax.servlet.http.HttpServletRequest;

public class LoginForm extends ActionForm {

    private String userName = null;
    private String password = null;

    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;
    }
```

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Summary

Struts1 is a Framework which base on MVC

- How to Struts1 work
- Create Example
- Action
- Ation Form
- Struts configuration