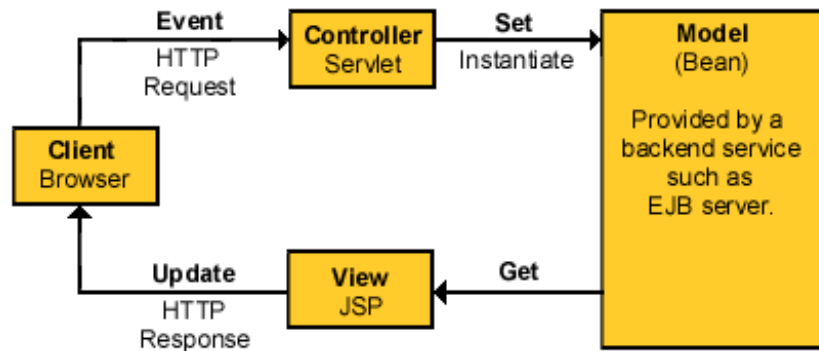


Simple MVC



An example: join.jsp

```
<%@ page language="java" %>
<%@ page import="business.util.Validation" %>
<%@ page import="business.db.MailingList" %>
<%
String error = "";
String email = request.getParameter("email");

// do we have an email address
if( email!=null ) {
    // validate input...
    if( business.util.Validation.isValidEmail(email) ) {
        // store input...
        try {
            business.db.MailingList.AddEmail(email);
        } catch (Exception e) {
            error = "Error adding email address to system. " + e;
        }
    }
}
```

join.jsp – part 2

```
if( error.length()==0 ) {
%>
    // redirect to welcome page...
    <jsp:forward page="welcome.html"/>
<%
    }
    } else {
        // set error message and redisplay page
        error = email + " is not a valid email address, try again.";
    }
} else {
    email = "";
}
%>
```

join.jsp – part 3

```
<html>
<head>
<title>Join Mailing List</title>
</head>
<body>
<font color=red><%=error%></font><br>
<h3>Enter your email to join the group</h3>
<form action="join.jsp" name="joinForm">
    <input name="email" id="email" value=<%=email%>></input>
    <input type="submit" value="submit">
</form>
</body>
</html>
```

An example – comment

- * **Heavy HTML and Java coupling**

The coder of the JSP file must be both a page designer and a Java developer. The result is often either terrible Java code or an ugly page, or sometimes both.

- * **Java and JavaScript blur**

As the pages become larger, there can be a tendency to implement some JavaScript. When the JavaScript appears in a page, the script can get confused with the Java code. An example of a possible point of confusion is using client-side JavaScript to validate the email field.

- * **Embedded flow logic**

To understand the entire flow of the application, you have to navigate all of the pages. Imagine the spaghetti logic on a 100-page Web site.

- * **Debugging difficulties**

In addition to being ugly to look at, HTML tags, Java code, and JavaScript code all in one page makes it difficult to debug problems.

- * **Tight coupling**

Changes to business logic or data means possibly touching every page involved.

- * **Aesthetics**

Visually, in large pages, this type of coding looks messy.

Struts jsp tag libs

You write:

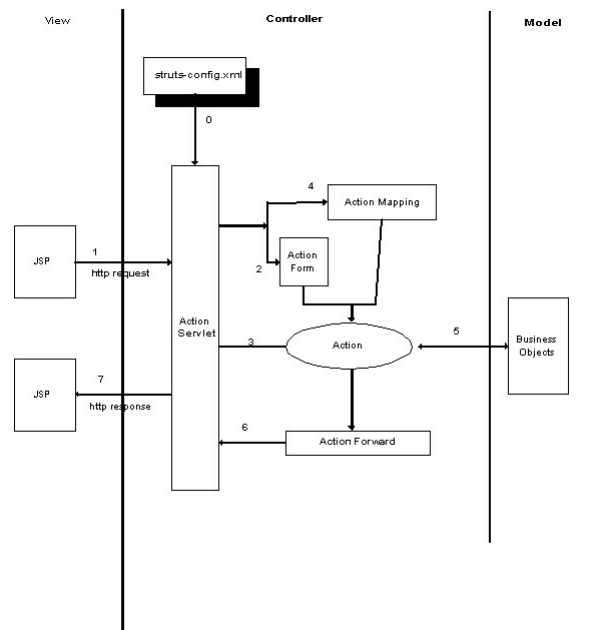
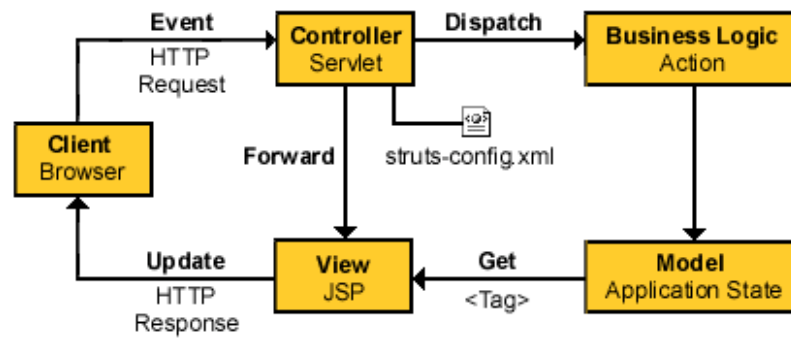
```
<form:form action="join.do" focus="email" >
  <form:text property="email" size="30" maxlength="30"/>
  <form:submit property="submit" value="Submit"/>
</form:form>
```

Browser gets:

```
<form name="joinForm" method="POST"
  action="join.do;jsessionid=ndj71hjo01">
  <input type="text" name="email" maxlength="30" size="30"
  value="">
  <input type="submit" name="submit" value="Submit">
</form>
<script language="JavaScript">
<!--
  document.joinForm.email.focus()
// -->
</script>
```

The additional JavaScript sets the focus on the email address field.

Struts MVC



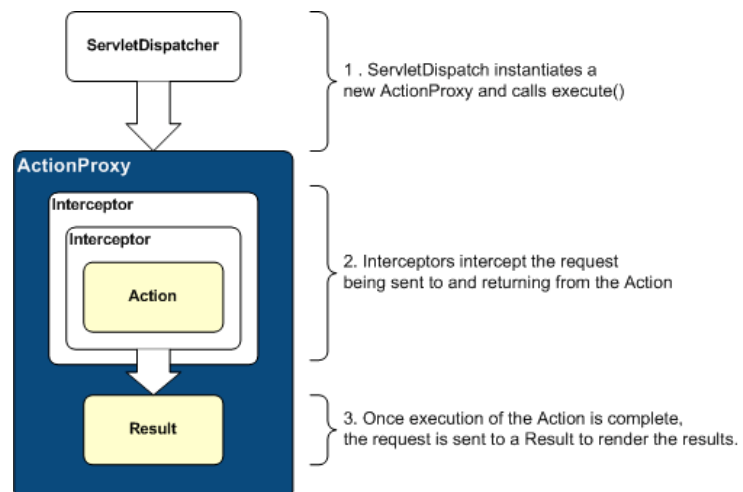
implementation

See code downloaded from

<http://www-128.ibm.com/developerworks/ibm/library/j-struts/#download>

Struts 2

<http://struts.apache.org/2.x/docs/core-developers-guide.html>



Struts 2

Struts

