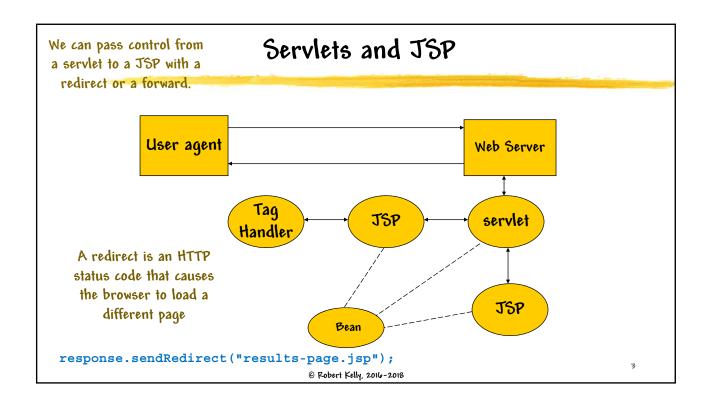
Session 22

Intra Server Control

Lecture Objectives

- Understand the differences between a server side forward and a redirect
- Understand the differences between an include and a forward and when each should be used

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RequestDispatcher Interface

- An object that receives a request (and response) and sends these objects to a named resource (e.q., servlet, JSP file) on the server
- Operates entirely within the server

Are We on Track?

- Code a servlet that
 - Adds an attribute to the request object
 - Forwards to a JSP that displays (using EL) the value of the request attribute (in a paragraph tag)

RequestDispatcher is in the javax.servlet package



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Were We on Track?

Servlet

Forward / Include

- RequestDispatcher provides 2 methods
 - forward
 - Forwards a request to another resource on the server
 - The destination resource generates the response
 - | Called before response buffer is flushed
 - include
 - Includes the response of the target in the response generated by the servlet using the dispatcher

You will not likely use the include method in your project – it is mainly for library tags

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Forward / Include Issues

- Use the include method of RequestDispatcher to have the servlet provide response body
- Included page:
 - | Must be dynamic
 - Lannot set the status code
 - Lannot set headers
 - | Must use the flush attribute (and set it to true)
- TSP provides support for includes and forwards
 - <jsp:include page="pathName" flush="true" /> occurs at request time c:import is more powerful, so you may not need to use jsp:include

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```
Servlet

The servlet forwards to next jsp

The servlet forwards to next js
```

... Example

Bean used in the example:

```
package lectures;

public class InfoBean {
    private String value;

    public void setValue(String s) {
       value = s;
    }

    public String getValue() {
       return value;
    }
}
```

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Have You Satisfied the Lecture Objectives?

- Understand the differences between a server side forward and a redirect
- Understand the differences between an include and a forward and in which cases each would be used

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