

Overview

Web application

 web.xml
 More ANT tricks
 MVC



- Components
 - Servlets
 - JSPs
 - Classes
 - Static documents (HTML, images, sounds etc.)Meta information
- Everything in the same context is considered part of <u>one</u> application

Directory Structure

- webapp root
 - WEB-INF/
 - WEB-INF/classes
 - WEB-INF/lib
 - WEB-INF/web.xml (deployment descriptor)

web.xml

<?xml version="1.0"?>

<web-app 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/ns/j2ee/web-app_2_4.xsd" version="2.4" >

<description>

A Java web application example for CS320. </description>

<display-name>CS320 Web App Example</display-name>

</web-app>

Some <web-app> Elements

- <welcome-file-list>
- servlet> and <servlet-mapping>
- <session-config>
- context-param>

More About web.xml

Java Servlet 2.4 SpecificationSRV.13.4













... MVC Control Flow

- 1. Process request
- 2. Populate beans
- 3. Store results in request, session, or servlet context
- 4. Forward request to JSP page
- 5. Extract bean data from beans and display

MVC Example

- M: User, Item, and Items
- ♦V: login.jsp, admin.jsp, and user.jsp
- C: Controller servlet

MVC Frameworks

Struts

- <u>http://struts.apache.org</u>
- Backed by SUN and Apache Foundation
- Mature framework
- Widely used and well supported
- Spring
 - http://www.springframework.org
 - New buzz in J2EE community
 - More flexible
 - Less dependency on the framework