

Spring-mvc, step1

Your Name

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Course Name
More Description About the Course

Spring base information

- Rod Johnson
- Inversion of Contorl (IoC)
- Aspect-Oriented Programming (AOP)
- From version 2.5 is supported annotations
- Setter, constructor, interface injection
- Advantages
 - Easy to use
 - Making simple tasks easy, hard thinks possible
 - POJOs (Plain Old Java Objects)
 - Everything should be POJOs
- Links
 - http://weblog.morosystems.cz/spring

DispatcherServlet

- Also know as Front Controller (define where are requests are routed base on information, which come later
- DispatcherServlet Icontrol where all our requests are routed
- This servlet definition also has an attendant <servlet-mapping/> entry that maps to the URL patterns that we will be using
 - Any URL with an 'htm' extensions be routed to springapp
 - <servlet-mapping>
 - <servlet-name>springapp</servlet-name>
 - <url-pattern>*.htm</url-pattern>
 - </servlet-mapping>
- PageController (Fowler)
- Default HandlerMapping that the DispatcherServlet uses is the BeanNameUrlHandlerMapping
- *-servlet.xml contains beans definitons

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app 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/ns/j2ee/web-app 2 4.xsd" >
 <servlet>
  <servlet-name>springapp</servlet-name>
  <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
  <load-on-startup>1</load-on-startup>
 </servlet>
 <servlet-mapping>
  <servlet-name>springapp</servlet-name>
  <url-pattern>*.htm</url-pattern>
 </servlet-mapping>
 <welcome-file-list>
  <welcome-file>
   index.jsp
  </welcome-file>
 </welcome-file-list>
</web-app>
```

springapp-servlet.xml

- Contains bean definitions (POJOs) used by DispatcherServlet,
 WebApplicationContext all web-related component go there
- Name is determined by the value of the <servlet-name/> element from the 'web.xml', with '-servlet' appended to it

HelloController.java (1/2)

- defines the controller that our application will be using to service a request with the corresponding URL mapping of '/hello.htm'
- uses an implementation class of the interface called HandlerMapping to define the mapping between a request URL and the object that is going to handle that request (the handler)
- HelloController is responsible for handling a request for a particular page of the website (Fowler)
- Controller handles the request and returns a ModelAndView in this case, one named 'hello.jsp'

HelloController.java (2/2)

```
package springapp.web;
import org.springframework.web.servlet.mvc.Controller;
import org.springframework.web.servlet.ModelAndView;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import java.io.IOException;
public class HelloController implements Controller {
  protected final Log logger = LogFactory.getLog(getClass());
  public ModelAndView handleRequest(HttpServletRequest request,
   HttpServletResponse response)
       throws ServletException, IOException {
     logger.info("Returning hello view");
     return new ModelAndView("hello.jsp");
```

Test for HelloController

- Agile development
- During development, not after
- Test packages

```
package springapp.web;
import org.springframework.web.servlet.ModelAndView;
import springapp.web.HelloController;
import junit.framework.TestCase;
public class HelloControllerTests extends TestCase {
  public void testHandleRequestView() throws Exception {
    HelloController controller = new HelloController();
    ModelAndView modelAndView = controller.handleRequest(null,
  null);
    assertEquals("hello.jsp", modelAndView.getViewName());
```

hello.jsp (5/)

Copy to directory /WEB-INF/

Run http://localhost:8080/springapp/hello.htm

Thank you