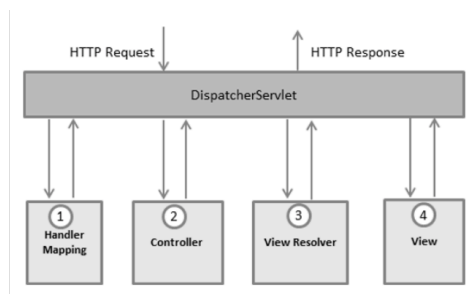


Spring MVC 学习笔记

由于之前使用的是struts来实现MVC架构，现在换成Spring MVC框架，故需要学习一个

1、Spring MVC工作机制：



如图所示，工作流程是：

- 1) After receiving an HTTP request, DispatcherServlet consults the HandlerMapping to call the appropriate Controller.
- 2) The Controller takes the request and calls the appropriate service methods based on used GET or POST method. The service method will set model data based on defined business logic and returns view name to the DispatcherServlet.
- 3) The DispatcherServlet will take help from ViewResolver to pickup the defined view for the request.
- 4) Once view is finalized, The DispatcherServlet passes the model data to the view which is finally rendered on the browser.

2、举例：

- 1) web.xml

```
<web-app id = "WebApp_ID" 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">

  <display-name>Spring MVC Application</display-name>

  <servlet>
    <servlet-name>HelloWeb</servlet-name>
    <servlet-class>
      org.springframework.web.servlet.DispatcherServlet
    </servlet-class>
    <load-on-startup>1</load-on-startup>
  </servlet>

  <servlet-mapping>
    <servlet-name>HelloWeb</servlet-name>
    <url-pattern>*.jsp</url-pattern>
  </servlet-mapping>

</web-app>
```

首先注册了DispatcherServlet，其次说明什么样的url被DispatcherServlet处理

2) servletname-servlet.xml

```
<beans xmlns = "http://www.springframework.org/schema/beans"
xmlns:context = "http://www.springframework.org/schema/context"
xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation = "http://www.springframework.org/schema/b
http://www.springframework.org/schema/beans/spring-beans-3.0.
http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context-

<context:component-scan base-package = "com.tutorialspoint" />

<bean class = "org.springframework.web.servlet.view.InternalR
<property name = "prefix" value = "/WEB-INF/jsp/" />
<property name = "suffix" value = ".jsp" />
</bean>
</beans>
```

在这个配置文件中，主要说明谁来scan各种Spring MVC的annotations (@Controller等)、以及注册viewresolver

3) Controller

```
@Controller
@RequestMapping("/hello")
public class HelloController {
    @RequestMapping(method = RequestMethod.GET)
    public String prinHello(ModelMap model) {
        model.addAttribute("message", "Hello Spring MVC Framework!");
        return "hello";
    }
}
```

annotations说明了URL映射的基本信息，model是用在view从对应的controller中抽取数据使用的，return的值是view的名字，2) 中的配置文件会给return的view名字自动加上前缀和后缀来定位view资源所在的位置。另外的例子参见：<https://spring.io/guides/gs/serving-web-content/>

4) View

```
<html>
<head>
    <title>Hello Spring MVC</title>
</head>

<body>
    <h2>${message}</h2>
</body>
</html>
```

注意抽取数据的名字用\${}扩起来，这个名字就是在controller中model被添加的属性名称

5) Model

用来向Controller提供各种service->数据库的对应类