

## \* 学习目标

- \* 能够掌握MyBatisPlus的开发

- \* 能够理解SpringMVC的概述

  - \* MVC:C

  - \* WEB三层架构：Web层

- \* 能够掌握SpringMVC的HelloWorld开发

  - \* 添加依赖

  - \* 实现Controller---handleRequest---ModelAndView

  - \* springmvc.xml--bean

  - \* web.xml---DispatcherServlet

  - \* 视图解析器

- \* 能够掌握SpringMVC的执行流程

  - \* request--DispatcherServlet--HandlerMapping---Handler---HandlerAdapter---

ModelAndView

  - \* ViewResolver---View---Model---Response

- \* 能够了解在SpringMVC中使用Servlet的形式进行开发

  - \* 不用xml配置和@WebServlet，不在tomcat容器，在SpringMVC容器

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- \* 能够掌握MyBatisPlus的开发

  - \* 添加依赖

  - \* MyBatisSqlSessionFactoryBean

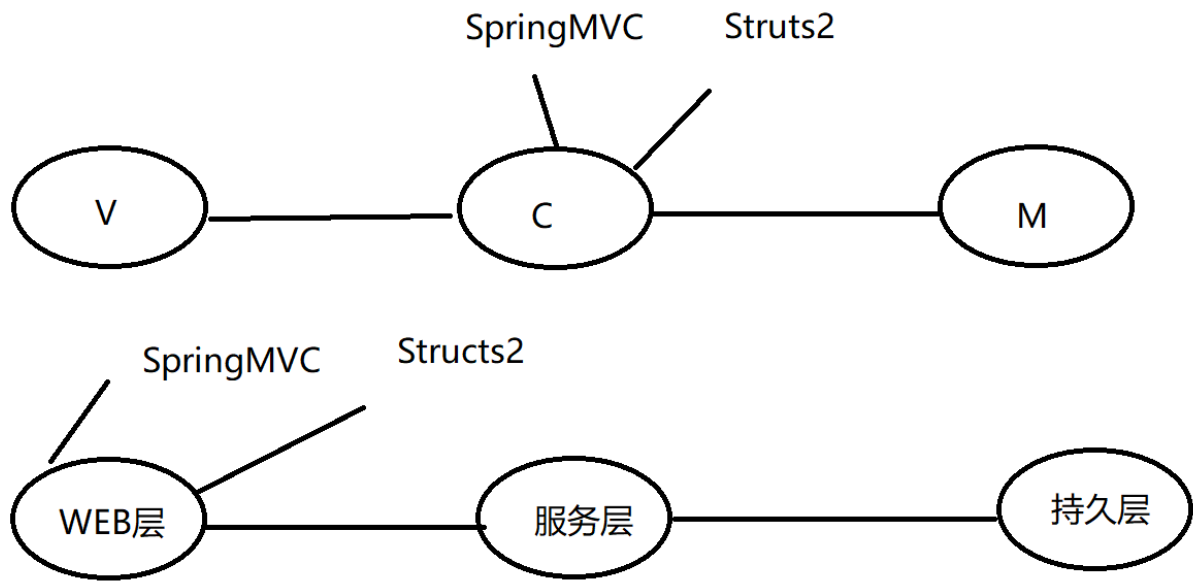
  - \* 实体：@TableName,@TableField

  - \* BaseMapper<实体>

  - \* CRUD，分页功能

- \* 能够理解SpringMVC的概述

  - \* Spring web mvc和Struts2都属于Web层（控制层）的框架



\* 能够掌握SpringMVC的HelloWorld开发

```
1 * 案例一: implements Controller接口
2 * 添加依赖
3 <dependency>
4   <groupId>junit</groupId>
5   <artifactId>junit</artifactId>
6   <version>4.12</version>
7   <scope>test</scope>
8 </dependency>
9 <dependency>
10  <groupId>org.springframework</groupId>
11  <artifactId>spring-webmvc</artifactId>
12  <version>5.2.2.RELEASE</version>
13 </dependency>
14 <dependency>
15  <groupId>javax.servlet</groupId>
16  <artifactId>javax.servlet-api</artifactId>
17  <version>3.1.0</version>
18  <scope>provided</scope>
19 </dependency>
20
21 * 编写控制器
```

```

22 public class HelloController implements Controller {
23     @Override
24     public ModelAndView handleRequest(HttpServletRequest httpServletRequest,
25         HttpServletResponse httpServletResponse) throws Exception {
26         ModelAndView modelAndView=new ModelAndView();
27         modelAndView.addObject("name","xiaohei");
28         modelAndView.setViewName("hello.jsp");
29         return modelAndView;
30     }
31 }
32 * 在webapp下新建hello.jsp文件
33 <%@ page contentType="text/html; charset=UTF-8" language="java" isELIgnored="fal
34 <html>
35 <head>
36     <title>Hello SpringMVC</title>
37 </head>
38 <body>
39     <h1>HelloWorld ${name}</h1>
40     <h1>123</h1>
41     <h1>345</h1>
42 </body>
43 </html>
44 * springmvc.xml
45 <?xml version="1.0" encoding="UTF-8"?>
46 <beans xmlns="http://www.springframework.org/schema/beans"
47     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
48     xmlns:context="http://www.springframework.org/schema/context"
49     xmlns:aop="http://www.springframework.org/schema/aop"
50     xsi:schemaLocation="http://www.springframework.org/schema/beans
51     http://www.springframework.org/schema/beans/spring-beans.xsd
52     http://www.springframework.org/schema/context
53     http://www.springframework.org/schema/context/spring-context.xsd
54     http://www.springframework.org/schema/aop http://www.springframework.org
55     <bean name="/hello.action" class="com.lg.controller.HelloController"/>
56 </beans>
57 * web.xml
58 <!DOCTYPE web-app PUBLIC
59     "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
60     "http://java.sun.com/dtd/web-app_2_3.dtd" >
61

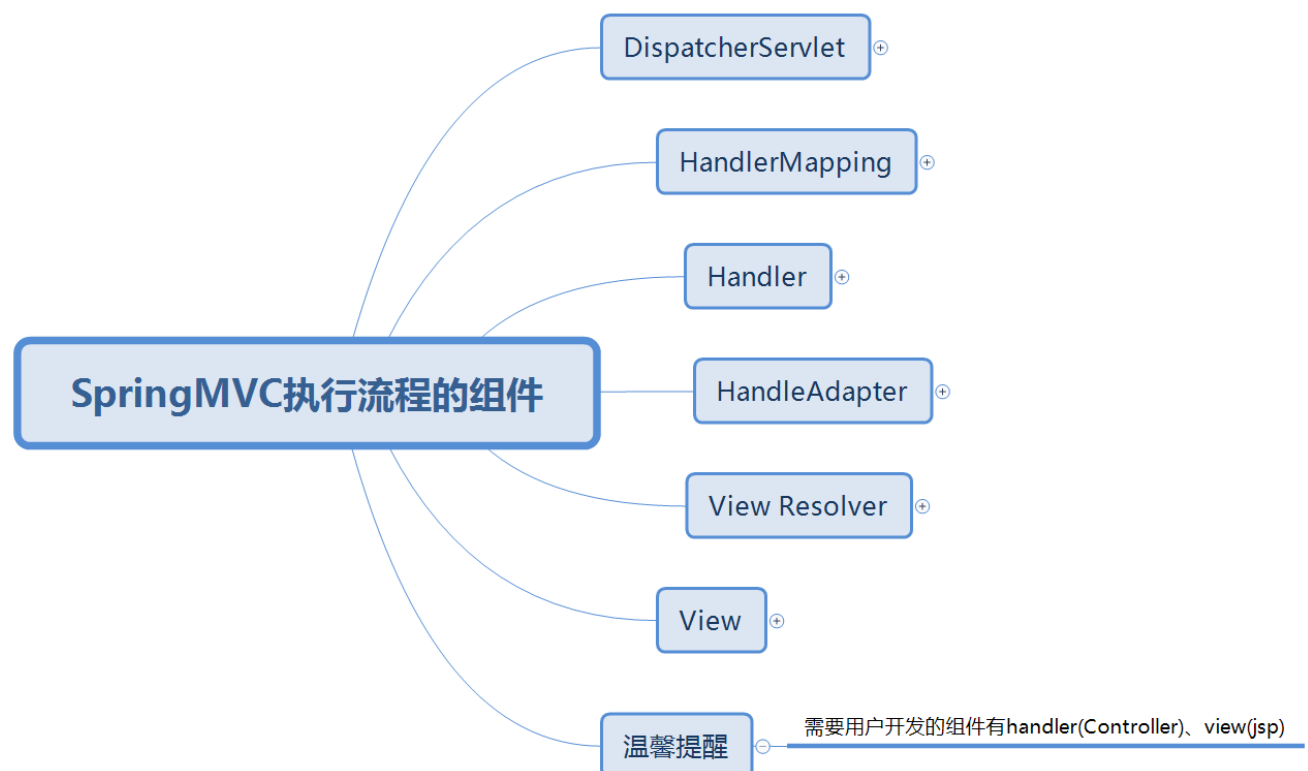
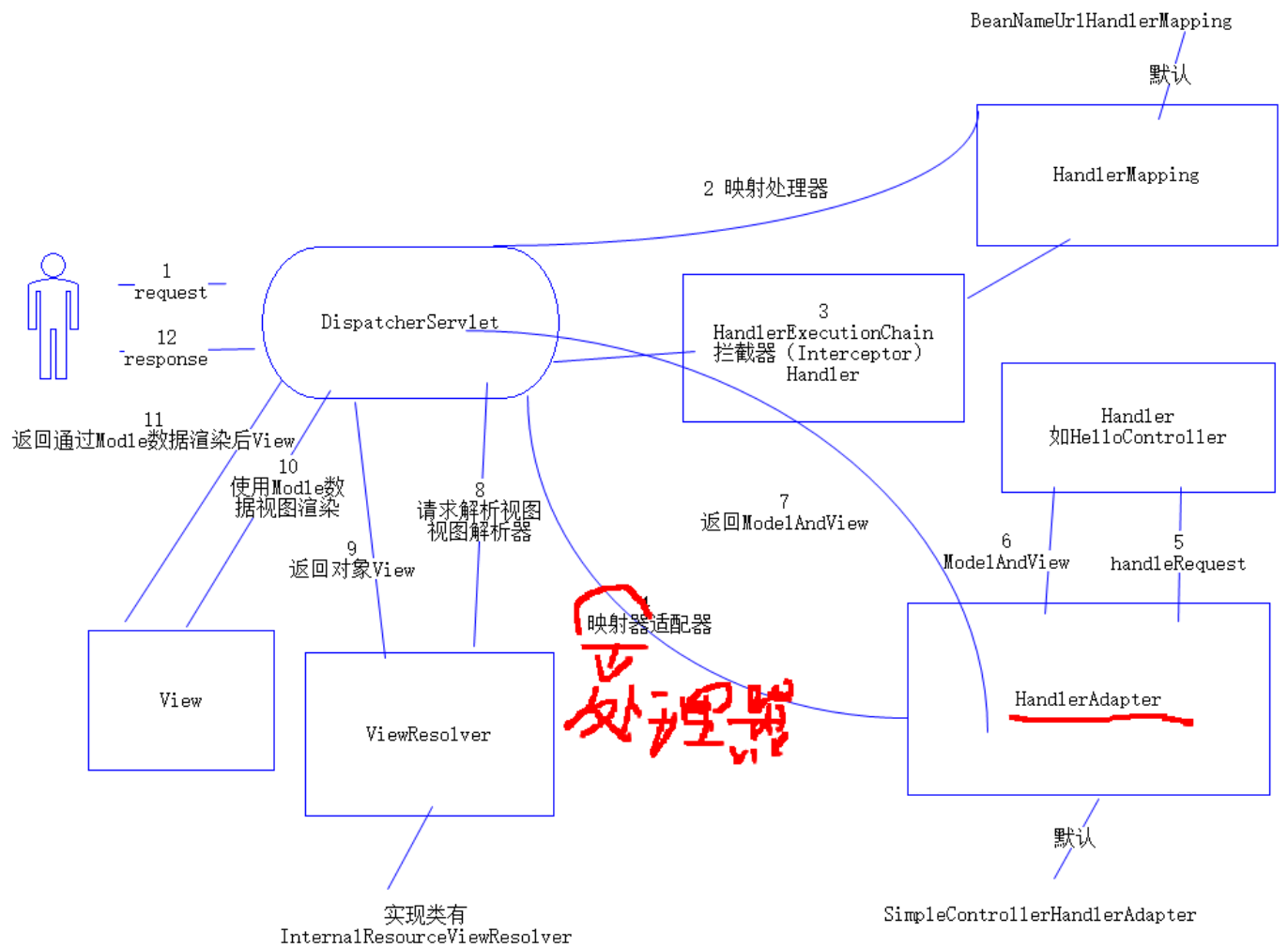
```

```
62 <web-app>
63   <display-name>亮哥教育</display-name>
64   <servlet>
65     <servlet-name>springmvc</servlet-name>
66     <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
67     <init-param>
68       <param-name>contextConfigLocation</param-name>
69       <param-value>classpath:springmvc.xml</param-value>
70     </init-param>
71   </servlet>
72   <servlet-mapping>
73     <servlet-name>springmvc</servlet-name>
74     <url-pattern>*.action</url-pattern>
75   </servlet-mapping>
76 </web-app>
77
78 * 访问测试效果
79 * http://localhost:8080/lgspringmvc/hello.action
80
81 * 案例二：（配置视图解析器-防止外界访问jsp页面）
82 * 把hello.jsp放到/WEB-INF/jsp/目录下
83 * 在springmvc.xml配置视图解析器
84 <bean class="org.springframework.web.servlet.view.InternalResourceViewResolver"
85       <property name="prefix" value="/WEB-INF/jsp/" />
86       <property name="suffix" value=".jsp" />
87 </bean>
88 * 修改HelloController代码
89 * modelAndView.setViewName("hello");
90 * 访问测试
91
92 * 案例三：通过注解的配置
93 @Controller
94 public class HelloController2 {
95   @RequestMapping("/test1.action")
96   public ModelAndView test1(){
97     ModelAndView modelAndView=new ModelAndView();
98     modelAndView.addObject("name","xiaobai666");
99     modelAndView.setViewName("hello");
100     return modelAndView;
101   }
```

```
102 }
103 * 在springmvc.xml配置
104 * <context:component-scan base-package="com.lg"/>
105 * 访问测试
```

### \* 能够掌握SpringMVC的执行流程

```
1 * 用户发送请求至前端控制器DispatcherServlet
2 * DispatcherServlet收到请求URL调用HandlerMapping处理器映射器（默认是BeanNameUrlHan
3 * 处理器映射器根据请求url找到具体的处理器，生成处理器对象及处理器拦截器(如果有则生成)-
4 * DispatcherServlet通过HandlerAdapter处理器适配器调用处理器（默认是SimpleControlle
5 * 执行处理器(Controller，也叫后端控制器)。
6 * Controller执行完成返回ModelAndView
7 * HandlerAdapter将controller执行结果ModelAndView返回给DispatcherServlet
8 * DispatcherServlet将ModelAndView传给ViewReslover视图解析器
9 * ViewReslover解析后返回具体View
10 * DispatcherServlet对View进行渲染视图（即将模型数据填充至视图中）。
11 * DispatcherServlet响应用户
```





## \* 查看框架默认加载的组件

## \* 搜索DispatcherServlet.properties

```
org.springframework.web.servlet.LocaleResolver=org.springframework.web.servlet.i18n.AcceptHeaderLocaleResolver

org.springframework.web.servlet.ThemeResolver=org.springframework.web.servlet.theme.FixedThemeResolver

org.springframework.web.servlet.HandlerMapping=org.springframework.web.servlet.handler.BeanNameUrlHandlerMapping, \
org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerMapping, \
org.springframework.web.servlet.function.support.RouterFunctionMapping

org.springframework.web.servlet.HandlerAdapter=org.springframework.web.servlet.mvc.HttpRequestHandlerAdapter, \
org.springframework.web.servlet.mvc.SimpleControllerHandlerAdapter, \
org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter, \
org.springframework.web.servlet.function.support.HandlerFunctionAdapter

org.springframework.web.servlet.HandlerExceptionResolver=org.springframework.web.servlet.mvc.method.annotation.ExceptionHandlerExceptionResolver, \
org.springframework.web.servlet.mvc.annotation.ResponseStatusExceptionHandler, \
org.springframework.web.servlet.mvc.support.DefaultHandlerExceptionResolver

org.springframework.web.servlet.RequestToViewNameTranslator=org.springframework.web.servlet.view.DefaultRequestToViewNameTranslator

org.springframework.web.servlet.ViewResolver=org.springframework.web.servlet.view.InternalResourceViewResolver

org.springframework.web.servlet.FlashMapManager=org.springframework.web.servlet.support.SessionFlashMapManager
```

```
1 * 测试案例一
2 * 在springmvc.xml
3 <bean class="org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerMapping" />
4 <bean class="org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter" />
5 * 会覆盖默认的HandlerMapping和HandlerAdapter
6 * 访问: http://localhost:8080/lgspringmvc/test1.action和之前一样
7 * 访问: http://localhost:8080/lgspringmvc/hello.action会出现404
8
9 * 测试案例二
10 * 在springmvc.xml继续添加
11 <bean class="org.springframework.web.servlet.handler.BeanNameUrlHandlerMapping" />
12 <bean class="org.springframework.web.servlet.mvc.SimpleControllerHandlerAdapter" />
13 * 访问: http://localhost:8080/lgspringmvc/hello.action和之前一样
14
15 * 案例三:
16 * 在springmvc.xml
17 <bean id="mController" name="/hello.action" class="com.lg.controller.HelloController" />
18 <bean class="org.springframework.web.servlet.handler.SimpleUrlHandlerMapping" />
19 <property name="mappings">
20 <props>
21 <prop key="/a.action">mController</prop>
22 <prop key="/b.action">mController</prop>
```

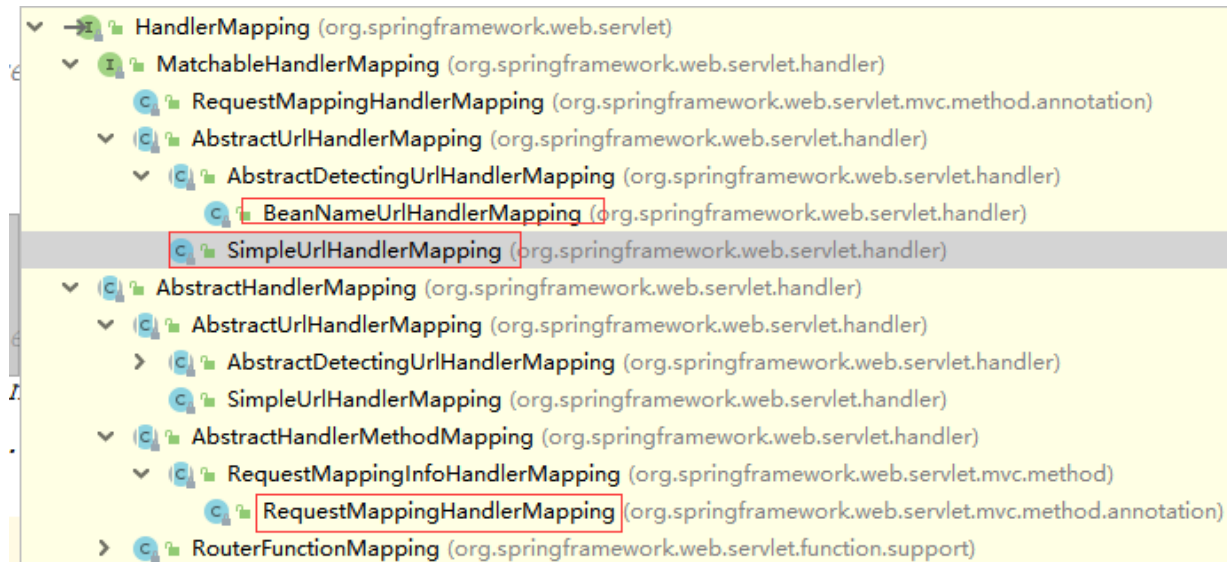


```

23         </props>
24     </property>
25 </bean>
26 * 访问: http://localhost:8080/lgspringmvc/a.action或b.action

```

### \* HandlerMapping继承结构

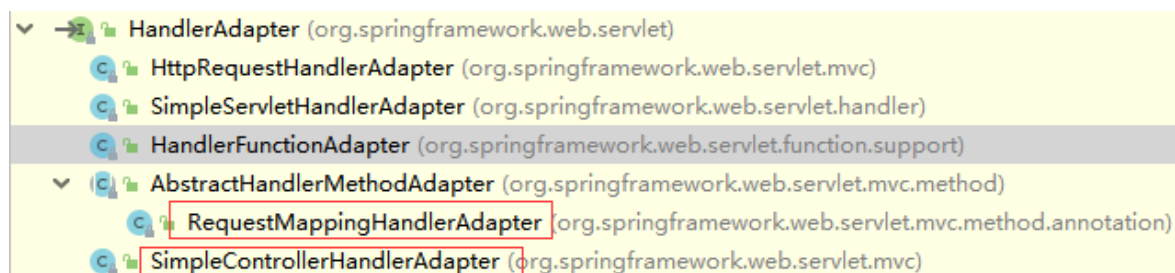


### \* HandlerMapping接口核心方法

\* 返回此请求的处理程序和所有拦截器

\* `HandlerExecutionChain getHandler(HttpServletRequest request)` throws Exception;

### \* HandlerAdapter继承结构



### \* 核心方法：

\* 使用给定的处理程序来处理此请求

\* ModelAndView handle(HttpServletRequest request, HttpServletResponse response, Object handler) throws Exception;

\* 查看SimpleControllerHandlerAdapter的handle方法源码

\* 在这里发现： ((Controller) handler).handleRequest(request, response);

\* 这个就是我们实现的接口

\* 能够了解在SpringMVC中使用Servlet的形式进行开发

\* 不用在web.xml或者@WebServlet里面配置，Servlet不在tomcat容器里，而是在SpringMVC容器里

```
1 * 代码
2 public class HelloServlet extends HttpServlet {
3     @Override
4     protected void doGet(HttpServletRequest req, HttpServletResponse resp) thro
5         resp.getWriter().write("HelloServlet");
6     }
7     @Override
8     protected void doPost(HttpServletRequest req, HttpServletResponse resp) thr
9         doGet(req, resp);
10    }
11 }
12
13 * 配置
14 <bean name="/hello2.action" class="com.lg.controller.HelloServlet"/>
15 <bean class="org.springframework.web.servlet.handler.SimpleServletHandlerAdapt
16 * 访问: http://localhost:8080/lgspringmvc/hello2.action
```