# 06 SpringMVC-视图解析流程分析

SpringMVC

## 一:视图解析流程分析

- 1、请求处理方法执行完成后,最终返回一个 ModelAndView对象
- 2、对于那些返回 String, View 或 ModeMap 等类型的处理方法, Spring MVC 也会在内部将它们装配成一个ModelAndView 对象,它包含了逻辑名和模型对象的视图

## 二:源码解析

1、执行Dug程序 , 并进入到DispatcherServlet类中doDispatch方法中

```
Debugger Tomcat Localhost Log --1 x Tomcat Catalina Log --1 x Tomcat C
```

```
protected void doDispatch(HttpServletRequest request, .....
) {
//其他代码省略......
 在此处打DUG断点,获取ModelAndView对象
*/
mv = ha.handle(processedRequest, response, mappedHandler.getHandler())
                  if (asyncManager.isConcurrentHandlingStarted()) {
                      return;
}
 /**
 在此处打DUG断点,进行处理视图,点击查询怎么处理视图
this.applyDefaultViewName(processedRequest, mv);
                  mappedHandler.applyPostHandle(processedRequest, res
ponse, mv);
//其他代码省略......
 在此处打DUG断点
*/
  this.processDispatchResult(processedRequest, response,
mappedHandler, mv, (Exception)dispatchException);
           } catch (Exception var22) {
    //其他代码省略.....
```

### 1、applyDefaultViewName

- 1、点击this.applyDefaultViewName(processedRequest, mv);
- 2、查询处理的视图

#### 2, render

#### 1、进行渲染视图

```
protected void render (ModelAndView mv, ....
) {
        //其他代码省略.....
   if (mv.isReference()) {
   /**
  解析视图的名称
在此处打DUG断点
, 点击查询怎么解析视图
*/
           view = this.resolveViewName(mv.getViewName(), mv.getModelIn
ternal(), locale, request);
           if (view == null) {
       //其他代码省略.....
 try {
           if (mv.getStatus() != null) {
               response.setStatus(mv.getStatus().value());
/**
  真正的解析渲染一个视图
```

```
19.
在此处打DUG断点,点击查询怎么渲染的

20.
*/

21.
view.render(mv.getModelInternal(), request, response);

22.
} catch

23.
}
```

#### 1、this.resolveViewName(mv.getViewName()

1、进行点击resolveViewName解析视图名称

```
| protected View resolveViewName(String viewName, Map<String, Object> model, Locale locale, HttpServletRequest request) throws Exception {
| Iterator var5 = this.viewResolvers.iterator(); |
| View view; |
| do {
| if (!var5.hasNext()) {
| return null; |
| }
| //通过视图解析器得到一个视图
| ViewResolver viewResolver = (ViewResolver)var5.next(); |
| view = viewResolver.resolveViewName(viewName, locale); |
| while(view == null); |
| //返回一个视图 |
| return view; |
| 14. | }
```

- 2、 view.render(mv.getModelInternal(),
  - 1、查询怎么真正的渲染一个视图
  - 2、点击是一个抽象类,查询视图类(Ctrl+alt+B),在AbstractView类中

```
1. public void render (Map<String, ?> model, HttpServletRequest request, Ht tpServletResponse response) throws Exception {
2.
3. //其他代码省略......
4. this.prepareResponse(request, response);
/**
6. 进行合并视图模型
7. 在此处打DUG断点,点击查询怎么合并视图模型
*/
9. this.renderMergedOutputModel(mergedModel, this.getRequestToExpose(request), response);
```

```
10. }
```

1、this.renderMergedOutputModel(mergedModel,

```
1、点击是一个抽象类,查询视图类(Ctrl+alt+B), InternalResourceView实现类
```

```
Choose Implementation of AbstractView.renderMergedOutputModel(Map, HttpServletRequest, HttpServletResponse) (16 found)

AbstractExcelView (org.springframework.web.servlet.view.document)

AbstractFeedView (org.springframework.web.servlet.view.feed)

AbstractJExcelView (org.springframework.web.servlet.view.document)

AbstractJackson2View (org.springframework.web.servlet.view.json)

AbstractJasperReportsView (org.springframework.web.servlet.view.jasperreports)

AbstractPdfStamperView (org.springframework.web.servlet.view.document)

AbstractPdfView (org.springframework.web.servlet.view.document)

AbstractPdfView (org.springframework.web.servlet.view.document)

AbstractSLaview (org.springframework.web.servlet.view)

AbstractXlsView (org.springframework.web.servlet.view)

AbstractXlsView (org.springframework.web.servlet.view.document)

Ibit (spring-webmvc-4.3.2.RELEASE.jar)

AbstractXlsView (org.springframework.web.servlet.view)

AbstractXlsView (org.springframework.web.servlet.view.xml)

AbstractXlsView (org.springframework.web.servlet.view.xml)

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AbstractXlsView (org.springframework.web.servlet.view.xml)

AbstractYlsview (org.springframework.web.servlet.view.xml)

AbstractYlsview (org
```

- 2、Spring MVC 借助视图解析器(ViewResolver)得到最终的视图对象(View),最终的视图可以是 JSP ,也可能是html、JFreeChart 等各种表现形式的视图
- 3、模型图

