



```

1022 // Determine handler adapter for the current request.
1023 HandlerAdapter ha = getHandlerAdapter(mappedHandler.getHandler()); ha: RequestMappingHandlerAdapter@5188
1024
1025 // Process last-modified header, if supported by the handler.
1026 String method = request.getMethod(); method: "GET"
1027 boolean isGet = "GET".equals(method); isGet: true
1028 if (isGet || "HEAD".equals(method)) { method: "GET"
1029     long lastModified = ha.getLastModified(request, mappedHandler.getHandler());
1030     if (new ServletWebRequest(request, response).checkNotModified(lastModified) && isGet) { request: RequestFacade@5099
1031         return;
1032     }
1033 }
1034
1035 if (!mappedHandler.applyPreHandle(processedRequest, response)) {
1036     return;
1037 }
1038
1039 // Actually invoke the handler.
1040 mv = ha.handle(processedRequest, response, mappedHandler.getHandler()); mv: null ha: RequestMappingHandlerAdapter@5188
1041

```

```

1039 // Actually invoke the handler.
1040 mv = ha.handle(processedRequest, response, mappedHandler.getHandler()); ha: RequestMappingHandlerAdapter@5188
1041
1042 + (ModelAndView@5273) ModelAndView [view="ex01/e01"; model={}]
1043 ModelAndView [view="ex01/e01"; model={}]
1044 return;

```

Log

Variables

- this = (DispatcherServlet@5098)
- request = (RequestFacade@5099)
- response = (ResponseFacade@5100)
- processedRequest = (RequestFacade@5099)
- mappedHandler = (HandlerExecutionChain@5157) "HandlerExecutionChain with [com.shine.controller.ExController01#e01(Integer)] and 1 interceptors"
 - handler = (HandlerMethod@5173) "com.shine.controller.ExController01#e01(Integer)"
 - interceptors = [HandlerInterceptor@5174]
 - interceptorList = [ArrayList@5174] size = 1
 - 0 = (ConversionServiceExposingInterceptor@5177)
 - interceptorIndex = 0
- multipartRequestParses = false
- asyncManager = (WebAsyncManager@5101)
- mv = (ModelAndView@5273) "ModelAndView [view="ex01/e01"; model={}]"
 - view = "ex01/e01"
 - model = (ModelMap@5282) size = 0
 - status = null

```

1054 // making them available for @ExceptionHandler methods and other scenarios.
1055 dispatchException = new NestedServletException("Handler dispatch failed", err);
1056
1057 processDispatchResult(processedRequest, response, mappedHandler, mv, dispatchException); processedRequest: RequestFacade@5099
1058
1059 catch (Exception ex) {
1060     triggerAfterCompletion(processedRequest, response, mappedHandler, ex);
1061 }
1062 catch (Throwable err) {
1063     triggerAfterCompletion(processedRequest, response, mappedHandler,
1064         new NestedServletException("Handler processing failed", err));
1065 }
1066 finally {
1067     if (asyncManager.isConcurrentHandlingStarted()) {
1068         // Instead of postHandle and afterCompletion

```

```

1111 mv = processHandlerException(request, response, handler, ex);
1112 errorView = (mv != null); errorView: false
1113
1114 }
1115
1116 // Did the handler return a view to render?
1117 if (mv != null && !mv.wasCleared()) {
1118     render(mv, request, response); mv: ModelAndView [view="ex01/e01"; model={}]
1119     if (errorView) {
1120         WebUtils.clearErrorRequestAttributes(request);
1121     }
1122 }

```

```

1346 View view;
1347 String viewName = mv.getViewName(); viewName: "ex01/e01"
1348 if (viewName != null) {
1349     // We need to resolve the view name.
1350     view = resolveViewName(viewName, mv.getModelInternal(), locale, request); viewName: "ex01/e01"
1351     if (view == null) {
1352         throw new ServletException("Could not resolve view with name '" + mv.getViewName() +
1353             "' in servlet with name '" + getServletName() + "'");

```

```

1408 @Nullable
1409 protected View resolveViewName(String viewName, @Nullable Map<String, Object> model, viewName: "ex01/e01" model: size = 0
1410     Locale locale, HttpServletRequest request) throws Exception { locale: "zh_CN" request: RequestFacade@5099
1411     根据视图名称解析得到视图对象
1412     if (this.viewResolvers != null) {
1413         for (ViewResolver viewResolver : this.viewResolvers) { viewResolver: InternalResourceViewResolver@5675 viewResolvers: size = 1
1414             View view = viewResolver.resolveViewName(viewName, locale); view: "org.springframework.web.servlet.view.InternalResourceView
1415             if (view != null) {
1416                 return view; view: "org.springframework.web.servlet.view.InternalResourceView; name 'ex01/e01'; URL [/ex01/e01.jsp]
1417             }
1418         }
1419     }
1420     return null;
1421 }

```

```

1348 if (viewName != null) {
1349     // We need to resolve the view name
1350     view = resolveViewName(viewName, mv.getModelInternal(), locale, request); viewName: "ex01/e01" mv: "ModelAndView
1351     if (view == null) { view: "org.springframework.web.servlet.view.InternalResourceView; name 'ex01/e01'; URL [/ex
1352         throw new ServletException("Could not resolve view with name '" + mv.getViewName() +
1353             "' in servlet with name '" + getServletName() + "'");
1354     }
1355     else {
1356         // No need to lookup: the ModelAndView object contains the actual View object.
1357         view = mv.getView();
1358         if (view == null) {
1359             throw new ServletException("View resolver threw exception '" + msg + "' while resolving the view '" + viewName + "'");
1360         }
1361     }
1362     DispatcherServlet > render()

```

Variables

```

> response = (ResponseFacade@5100)
> locale = (Locale@5638) "zh_CN"
> viewName = "ex01/e01"
> view = (InternalResourceView@5680) "org.springframework.web.servlet.view.InternalResourceView; name 'ex01/e01'; URL [/ex01/e01.jsp]"
  alwaysInclude = false
  preventDispatchLoop = true
  url = "/ex01/e01.jsp"
  contentType = "text/html; charset=ISO-8859-1"
  requestContextAttribute = null
  staticAttributes = (LinkedHashMap@5704) size = 0
  exposePathVariables = true
  exposeContextBeansAsAttributes = false
  exposedContextBeanNames = null
  beanName = "ex01/e01"

```

```

1372 response.setStatus(mv.getStatus().value());
1373 view.render(mv.getModelInternal(), request, response); view: "org.springframework.web.servlet.view.InternalResourceView
1374
1375 catch (Exception ex) {
1376     if (logger.isDebugEnabled()) {
1377         logger.debug("Error rendering view [" + view + "]", ex);
1378     }
1379     throw ex;
1380 }
1381 DispatcherServlet > render()

```

Log

Variables

```

> this = (DispatcherServlet@5098)
> mv = (ModelAndView@5584) "ModelAndView [view='ex01/e01'; model=[]]"
> request = (RequestFacade@5099)
> response = (ResponseFacade@5100)
> locale = (Locale@5638) "zh_CN"
> viewName = "ex01/e01"
> view = (InternalResourceView@5680) "org.springframework.web.servlet.view.InternalResourceView; name 'ex01/e01'; URL [/ex01/e01.jsp]"
  alwaysInclude = false

```

```
web.xml x DispatcherServlet.java x AbstractView.java x ModelAndView.java x HandlerExecutionChain.java x CharacterEncodingFilter.java x OncePerRequestFilter.java x
301 * Delegates to renderMergedOutputModel for the actual rendering.
302 * @see #renderMergedOutputModel view父类的方法
303 */
304 @Override
305 public void render(@Nullable Map<String, ?> model, HttpServletRequest request, HttpServletResponse response) throws Exception {
306     // ...
307     if (logger.isDebugEnabled()) {
308         logger.debug("View '" + formatViewName() +
309             "' with model '" + (model != null ? model : Collections.emptyMap()) +
310             "' (static attributes: '" + (this.staticAttributes.isEmpty() ? "" : "static attributes '" + this.staticAttributes));
311     }
312     Map<String, Object> mergedModel = createMergedOutputModel(model, request, response);
313     prepareResponse(request, response);
314     renderMergedOutputModel(mergedModel, getRequestToExpose(request), response);
315 }
316
317
318
319
```

```
web web.servlet.view InternalResourceView
138 protected void renderMergedOutputModel(
139     Map<String, Object> model, HttpServletRequest request, HttpServletResponse response) throws ServletException {
140     // Expose the model object as request attributes.
141     exposeModelAsRequestAttributes(model, request);
142     // Expose helpers as request attributes, if any.
143     exposeHelpers(request);
144     // Determine the path for the request dispatcher.
145     String dispatcherPath = prepareForRendering(request, response);
146     // Obtain a RequestDispatcher for the target resource (typically a JSP).
147     RequestDispatcher rd = getRequestDispatcher(request, dispatcherPath);
148     if (rd == null) {
149         // ...
150     }
151     @Nullable
152     @protected RequestDispatcher getRequestDispatcher(HttpServletRequest request, String path) {
153         return request.getRequestDispatcher(path);
154     }
155 }
227
228
229
230
```

```
147 // Determine the path for the request dispatcher.
148 String dispatcherPath = prepareForRendering(request, response);
149 // Obtain a RequestDispatcher for the target resource (typically a JSP).
150 RequestDispatcher rd = getRequestDispatcher(request, dispatcherPath);
151 if (rd == null) {
152     throw new ServletException("Could not get RequestDispatcher for [" + getUrl() +
153         "]: Check that the corresponding file exists within your web application archive!");
154 }
155 // If already included or response already committed, perform include, else forward.
156 if (useInclude(request, response)) {
157     response.setContentType(getContentType());
158     if (logger.isDebugEnabled()) {
159         logger.debug("Including [" + getUrl() + "]");
160     }
161     rd.include(request, response);
162 }
163
```

```
Tomcat Catalina Log
Variables
this = (InternalResourceView@5680) "org.springframework.web.servlet.view.InternalResourceView: name 'ex01/e01'; URL [/ex01/e01.jsp]"
model = (LinkedHashMap@6049) size = 0
request = (RequestFacade@5099)
response = (ResponseFacade@5100)
dispatcherPath = "/ex01/e01.jsp"
```