

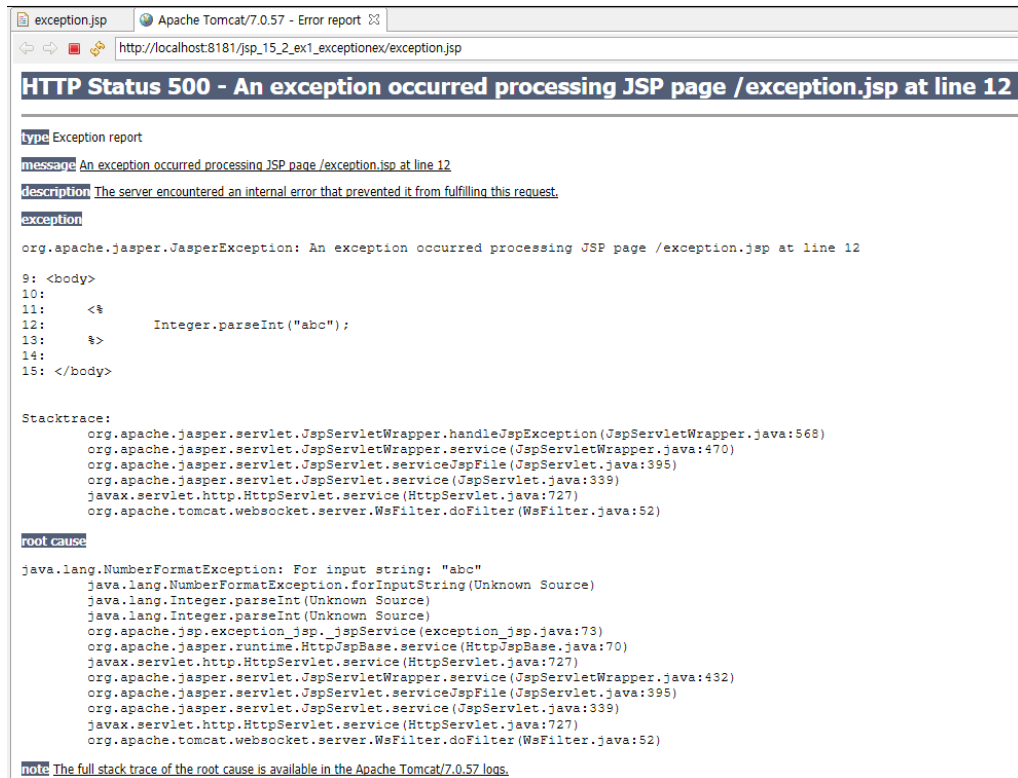
15강. 예외 페이지

- 예외 페이지의 필요성
- page 지시자를 이용한 예외 처리
- web.xml파일을 이용한 예외 처리

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15-1. 예외 페이지의 필요성

JAVA언어에서 아마도 예외처리에 대해서 사전 학습을 했을 것 입니다. JSP, Servlet에서도 예외가 발생 할 수 있습니다. 예외적인 상황이 발생했을 경우 웹컨테이너(톰캣)에서 제공되는 기본적인 예외 페이지가 보여 진다면, 사용자로 하여금 뭔가 불쾌한 느낌이 들면서, 다시는 해당 사이트에 접속하려 들지 않을 것 입니다. 따라서 약간은 다소 딱딱한 에러 페이지를 보다 친근한 느낌이 느껴지는 페이지로 유도 할 수 있습니다.



The screenshot shows a web browser window displaying an Apache Tomcat error report. The title bar indicates the browser is viewing 'exception.jsp' on 'Apache Tomcat/7.0.57 - Error report'. The address bar shows the URL 'http://localhost:8181/jsp_15_2_ex1_exceptionex/exception.jsp'. The main content area has a header 'HTTP Status 500 - An exception occurred processing JSP page /exception.jsp at line 12'. Below this, there is a section titled 'type' with the value 'Exception report'. The 'message' is 'An exception occurred processing JSP page /exception.jsp at line 12'. The 'description' states 'The server encountered an internal error that prevented it from fulfilling this request.' The 'exception' section shows the full exception details: 'org.apache.jasper.JasperException: An exception occurred processing JSP page /exception.jsp at line 12'. The code snippet for the JSP page is shown, with line 12 containing 'Integer.parseInt("abc");'. The 'Stacktrace' section lists the sequence of method calls leading to the error, starting from 'org.apache.jasper.servlet.JspServletWrapper.handleJspException' down to 'org.apache.tomcat.websocket.server.WsFilter.doFilter'. The 'root cause' section identifies the specific error: 'java.lang.NumberFormatException: For input string: "abc"', and provides the full stack trace for this exception, starting from 'java.lang.NumberFormatException.forInputString' down to 'org.apache.tomcat.websocket.server.WsFilter.doFilter'. A note at the bottom states: 'note The full stack trace of the root cause is available in the Apache Tomcat/7.0.57 logs.'

```
exception.jsp Apache Tomcat/7.0.57 - Error report
http://localhost:8181/jsp_15_2_ex1_exceptionex/exception.jsp

HTTP Status 500 - An exception occurred processing JSP page /exception.jsp at line 12

type Exception report
message An exception occurred processing JSP page /exception.jsp at line 12
description The server encountered an internal error that prevented it from fulfilling this request.
exception
org.apache.jasper.JasperException: An exception occurred processing JSP page /exception.jsp at line 12

9: <body>
10:
11:   <%
12:       Integer.parseInt("abc");
13:   %>
14:
15: </body>

Stacktrace:
org.apache.jasper.servlet.JspServletWrapper.handleJspException(JspServletWrapper.java:568)
org.apache.jasper.servlet.JspServletWrapper.service(JspServletWrapper.java:470)
org.apache.jasper.servlet.JspServlet.serviceJspFile(JspServlet.java:395)
org.apache.jasper.servlet.JspServlet.service(JspServlet.java:339)
javax.servlet.http.HttpServlet.service(HttpServlet.java:727)
org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:52)

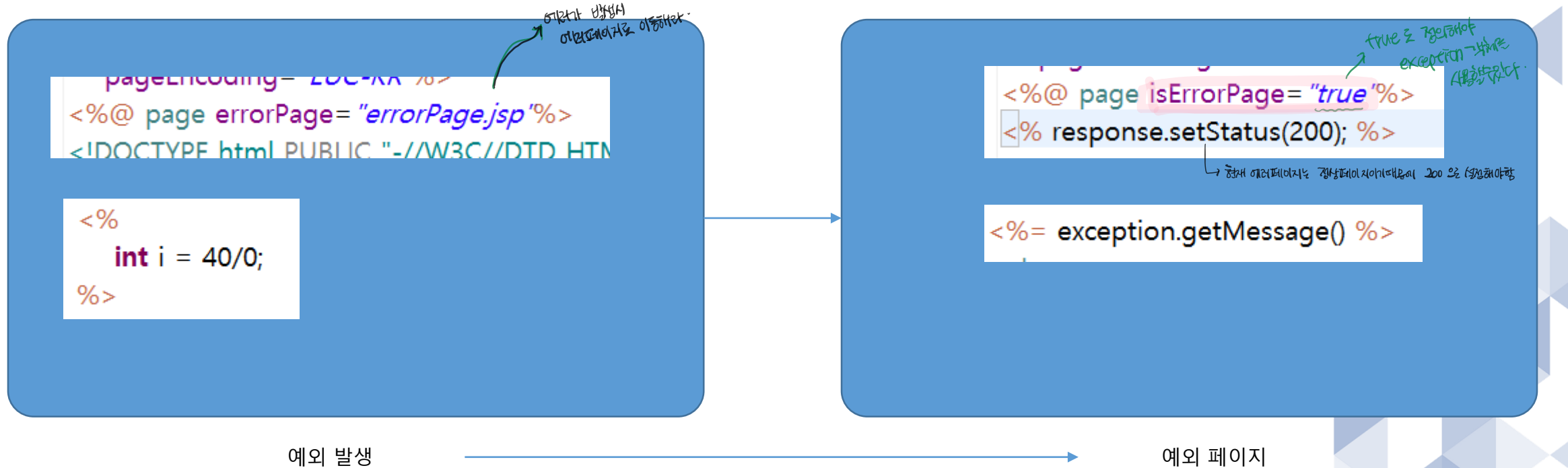
root cause
java.lang.NumberFormatException: For input string: "abc"
java.lang.NumberFormatException.forInputString(Unknown Source)
java.lang.Integer.parseInt(Unknown Source)
java.lang.Integer.parseInt(Unknown Source)
org.apache.jsp.exception_jsp._jspService(exception_jsp.java:73)
org.apache.jasper.runtime.HttpJspBase.service(HttpJspBase.java:70)
javax.servlet.http.HttpServlet.service(HttpServlet.java:727)
org.apache.jasper.servlet.JspServletWrapper.service(JspServletWrapper.java:432)
org.apache.jasper.servlet.JspServlet.serviceJspFile(JspServlet.java:395)
org.apache.jasper.servlet.JspServlet.service(JspServlet.java:339)
javax.servlet.http.HttpServlet.service(HttpServlet.java:727)
org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:52)

note The full stack trace of the root cause is available in the Apache Tomcat/7.0.57 logs.
```

200 : 정상적으로 완료된 경우
500 : 어떠한 연산이 잘못되었을 경우.

15-2. page지시자를 이용한 예외 처리

(jsp_15_2_ex1_exceptionex)



15-3. web.xml파일을 이용한 예외 처리

(jsp_15_3_ex1_exceptionex)

```
<error-page>
  <error-code>404</error-code>
  <location>/error404.jsp</location>
</error-page>
<error-page>
  <error-code>500</error-code>
  <location>/error500.jsp</location>
</error-page>
```

→ 페이지를 못찾을때 발생하는 에러

404에러 발생시 error404.jsp 페이지로 이동

→ 연산이 잘못될 경우 발생하는 에러

500에러 발생시 error500.jsp 페이지로 이동