

## 57. 파일 업로드

\* 텍스트 프로토콜

POST /board/add HTTP/1.1 ↗ request line  
Content-Type: multipart/form-data; boundary=----Webxxxxx  
↑  
<form enctype="multipart/form-data" ...>  
:  
<input type='file' ...>  
:  
</form>

자바에서 구동 문자열

header

↑  
==== ← 상위-문자열 <boundary>  
|||| ← 바운더리  
==== ← 하위-문자열  
:  
} message-body      ~~O=OK O=O~~

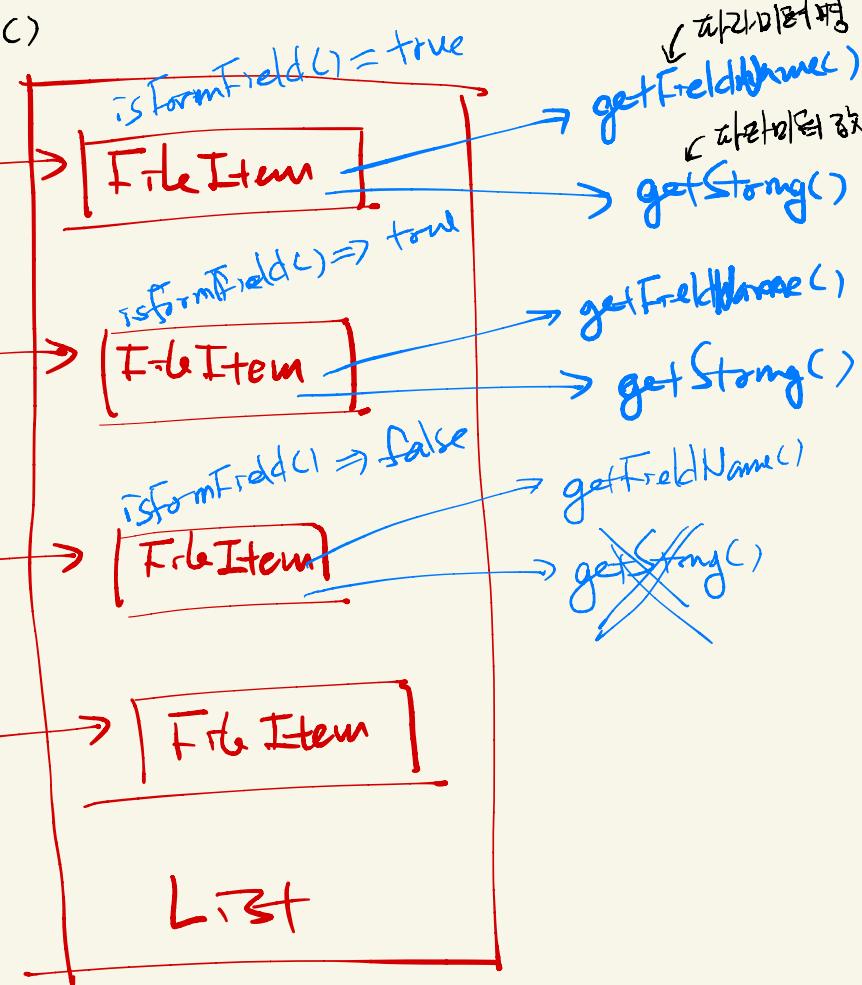
\* 요청 파싱  $\Rightarrow$  parseRequest()

aaaa  
name = "title"

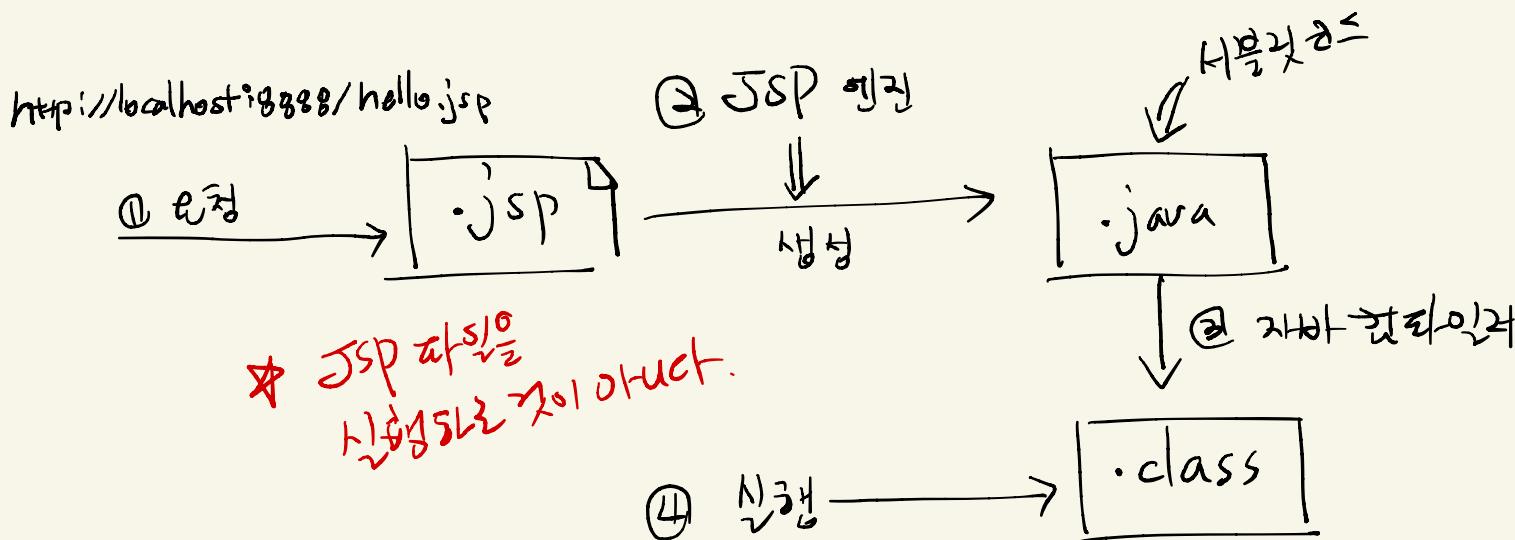
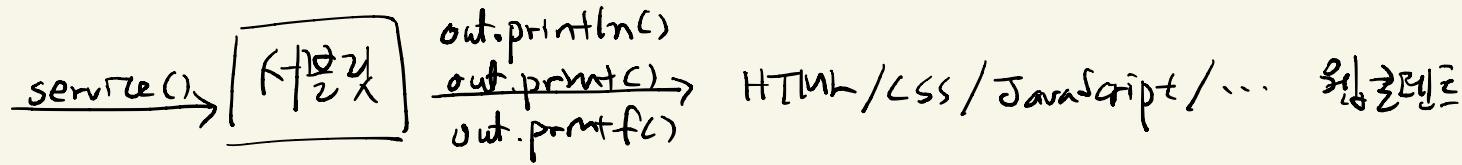
bbbbb  
name = "content"

dd  
name = "files"

ee  
name = "category"



\* JSP → 서블릿 코드 자동생성



\* JSP 자원 평로

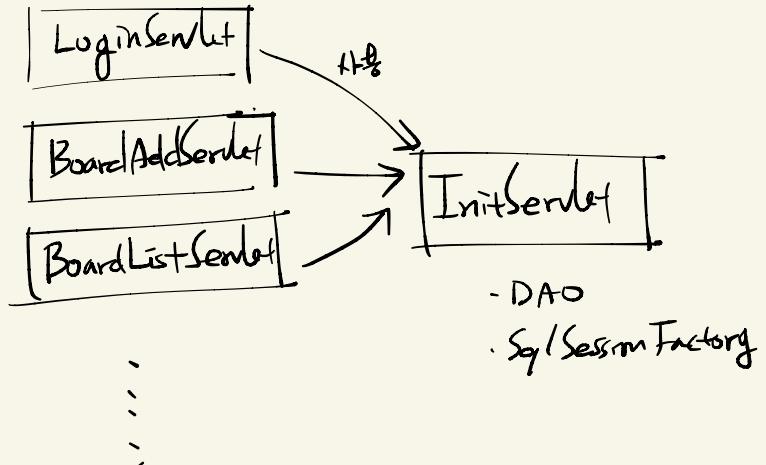
src/main/webapp/\*.jsp

↓ 자동생성

.. /temp/\*:java

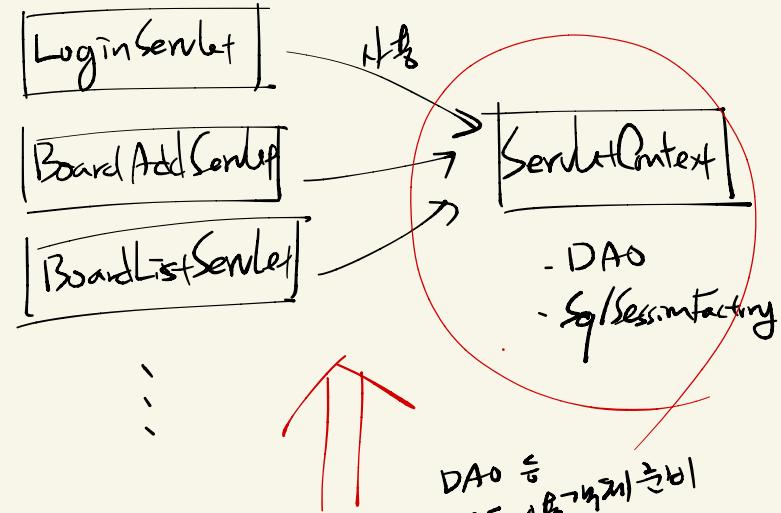
\* 63. ⇒ CTX ServletContext 보관/수

① 전통



\* 예전에  
- ex) static DAO를  
InitServlet에 주면  
그거 쓰는거.

→ ② InitServlet 종속성 주입



DAO 등  
공통 DAO가 되도록 한다

ContextLoaderListener

↓  
ServletContextListener  
<interface>

## \* JSP (Java Server Page)

<%@ page ... %>  
<%@ taglib ... %>  
<%@ include ... %>

} directive element

<% 자바코드 %> ← scriptlet

<%= 표현식 %> ← expression element

<%! 퍼드 및 대체된 문자 %> ← declaration element

<jsp:xxx - /> ← JSP action tag

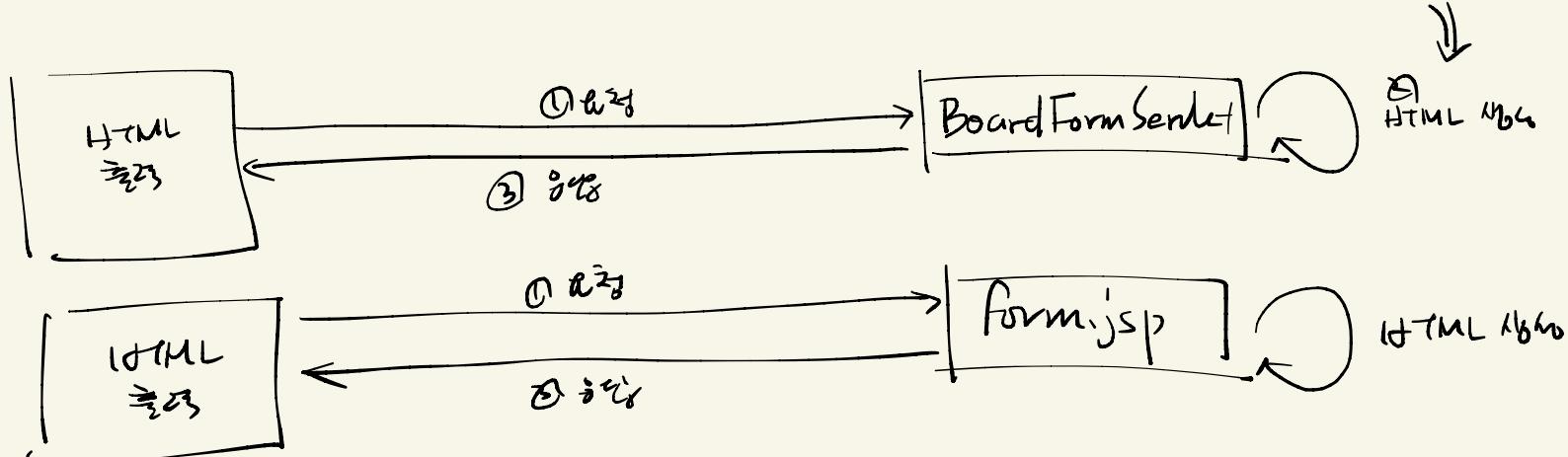
text ← template data

## JSP Built-in Objects

- ① ServletContext application
- ② ServletConfig config
- ③ Throwable exception
- ④ JspWriter out
- ⑤ PageContext pageContext
- ⑥ HttpServletRequest request
- ⑦ HttpServletResponse response
- ⑧ HttpSession session
- ⑨ this page

## 서버 렌더링 (rendering) 과정

서버 렌더링  
HTML 흐름



## 클라이언트 렌더링 과정

