



Advanced Java

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Java EE webapp directory structure

Java EE web appn must be arranged in a fixed format while deploying in web server.

webapp/

- *.html, *.jsp
- *.png
- *.js, *.css

WEB-INF/

- web.xml

classes/

- *.class

lib/

- *.jar

may be added in sub directories

deployment descriptor

pojo, dao, ... | in
servlets, ... | packages

third-party libraries
e.g. jdbc driver, jstl, ...

appn should deployed as a directory or as war (zip) file with given structure.



To be deployed in web server → Hot deployment folder i.e. web apps in tomcat.

Note: Contents in WEB-INF are not directly accessible to client (by url), but contents above it are accessible (by url).



JSP

- JSPs are outdated.

Servlet = Business Logic + Presentation Logic

JSP = Presentation Logic + Business Logic

* JSP is converted into Servlet while execution.

* JSP syntax: basically JSP is markup (tags).

① Directives `<%@ ... %>` → Defines JSP behavior, ...

 @Page, @include, @taglib

② Declaration `<%! ... %>` → fields & methods to be added in generated servlet class.

③ Scriptlet `<% ... %>` → Java statements to be executed per request.

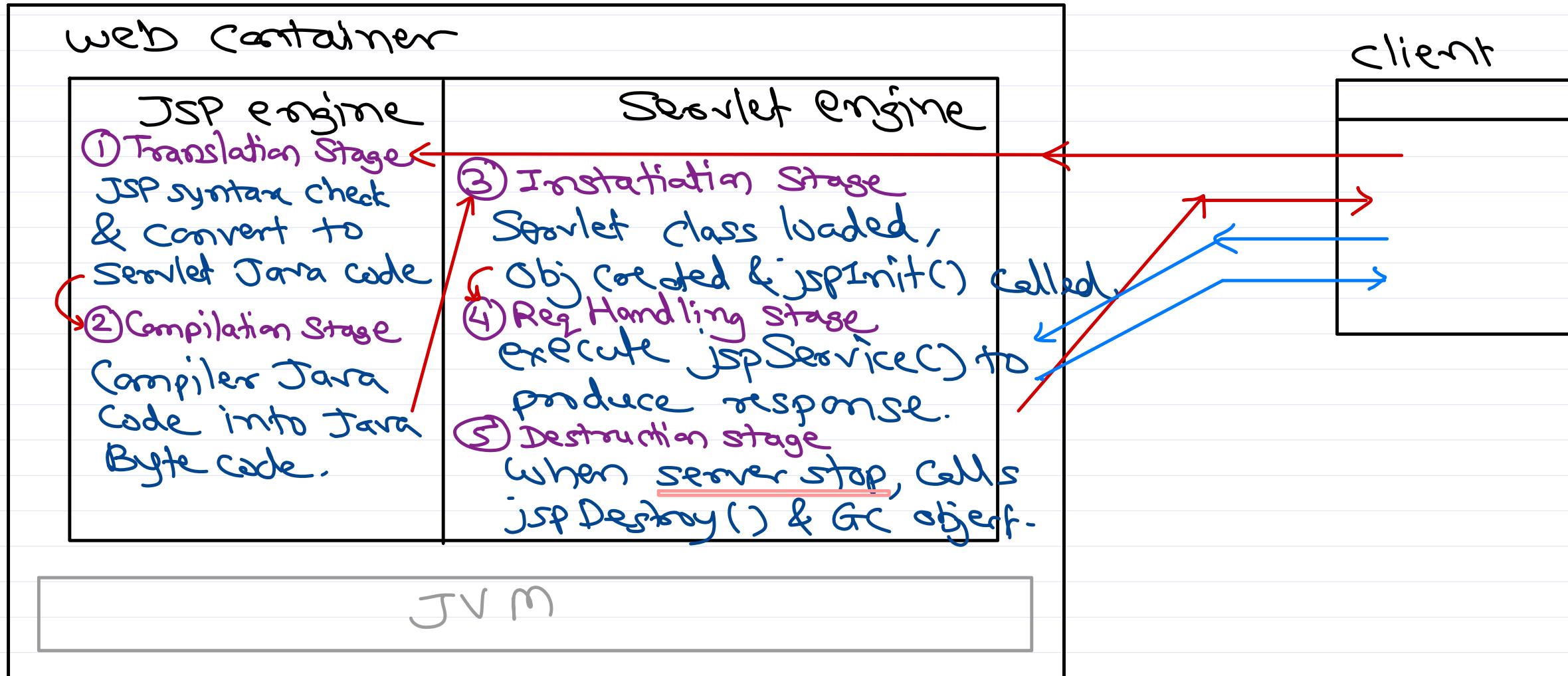
④ Expression `<%= ... %>` → Java expression which is evaluated per request & result is added in generated response.

⑤ Comment `<%-- ... --%>` → server side comment - not added to response.



JSP Life Cycle

web server



JSP Implicit Objects

- * Local variables available in `jspService()` method.
- * They are directly available in req handling stage (no explicit declaration needed) i.e. scriptlet & expression.

- ① `request` : `HttpServletRequest`
- ② `response` : `HttpServletResponse`
- ③ `session` : `HttpSession`
- ④ `config` : `ServletConfig`
- ⑤ `application` : `ServletContext`
- ⑥ `page` : `Object` (current servlet obj)
i.e. this
- ⑦ `pageContext` : `PageContext`
- ⑧ `out` : `JspWriter`
- ⑨ `exception` : `Throwable` * only avail in JSP error pages.





Thank you!

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