

- Scopes in JSP
1. Request Scope
 2. Session Scope
 3. Application Scope
 4. Page Scope
- ←

Servlet Scope

Request Scope

In Servlet this scope is maintained by ServletRequest Object.in jsp it is maintained by "request" implicit object.
The information stored in request scope is available for all components which are processing that request.
Request Scope => it will start at the time of request object creation,(before calling service())
it would end at the time of request object destruction(after completing service()).

Session Scope

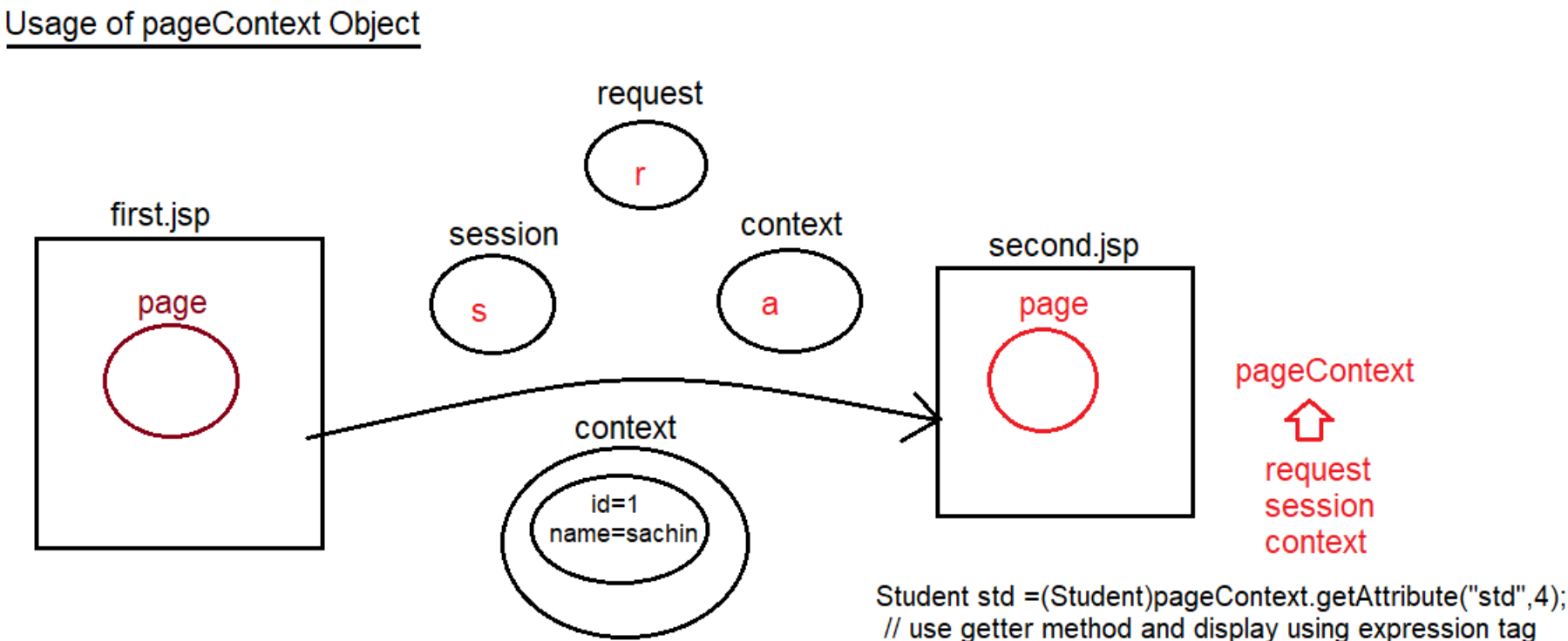
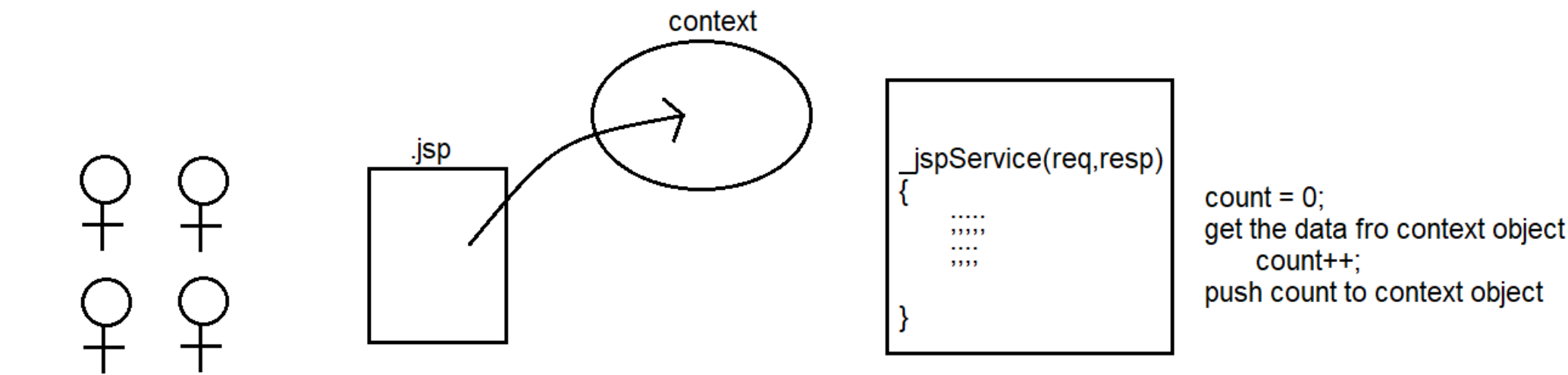
In Servlet this scope is maintained by "HttpSession" object, in jsp it is maintained by "session" implicit object.
The information stored in session scope is available for all components which are participating in session.
Session Scope => It will start at the time of session object creation
It will end at the time of session expires(logout or invalidate()) or timeout mechanism.

Application Scope

In Servlet this scope is maintained by "ServletContext" object,but in jsp it is maintained by "application" implicit object.
The information stored in applicaiton scope is available for all the components of the webapplication.
Application Scope = > it will start at the time of ServletContext Object(at the time of server startup) construction
it will end at the time of Servlet Context Object destruction(at the time of undeployment or server shutdown)

Page Scope

This scope is not applicable for Servlet, it is applicable only for JSP.
In JSP this scope is managed by "pageContext" implicit object
The information stored in pagescope is available only in the current jsp page, and not available for other jsp's.



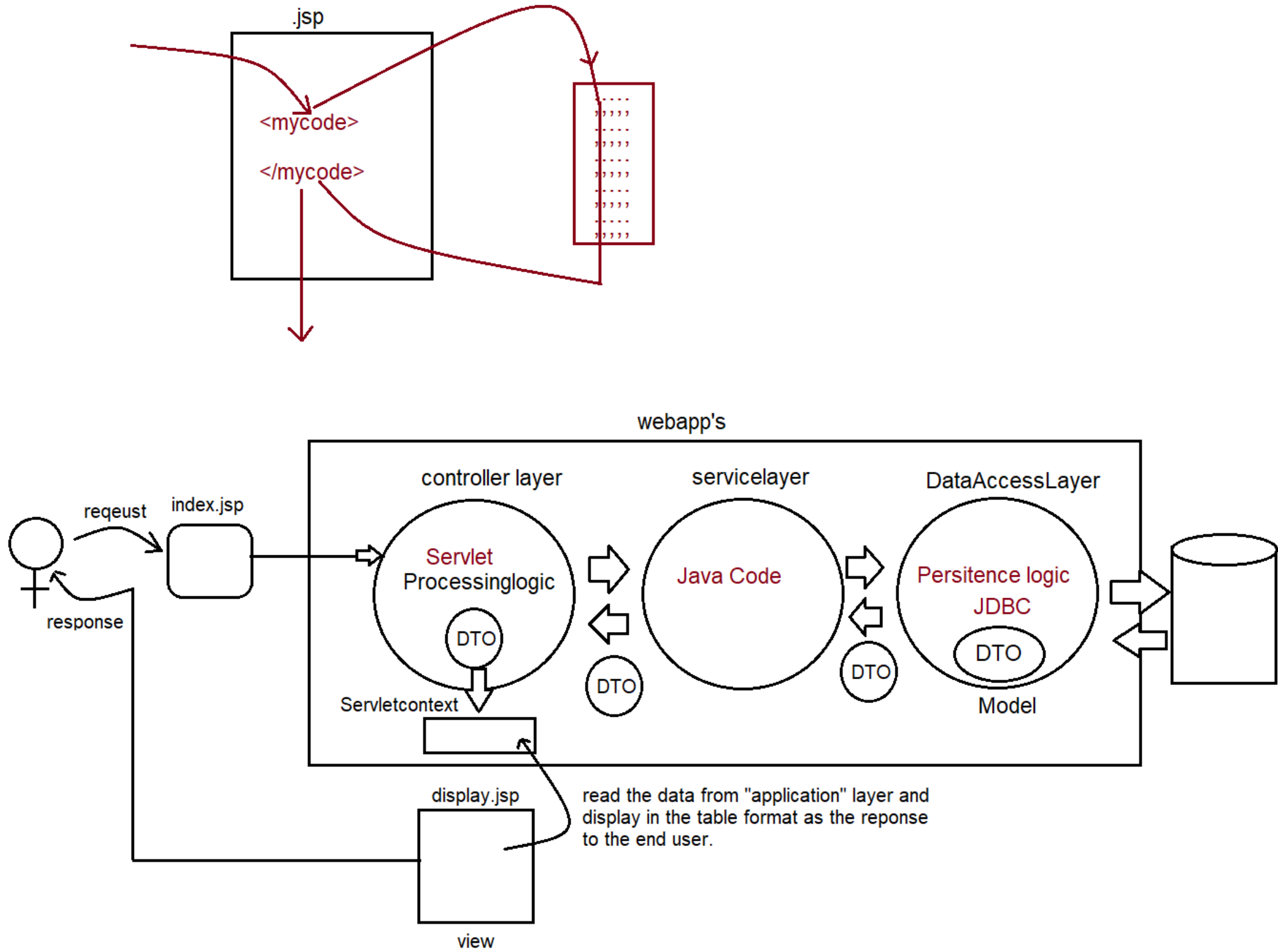
Difference b/w findAttribute(name) vs getAttribute(name)

getAttribute(name) => by default it will check in page Scope, untiil explicitly we tell through SCOPE.

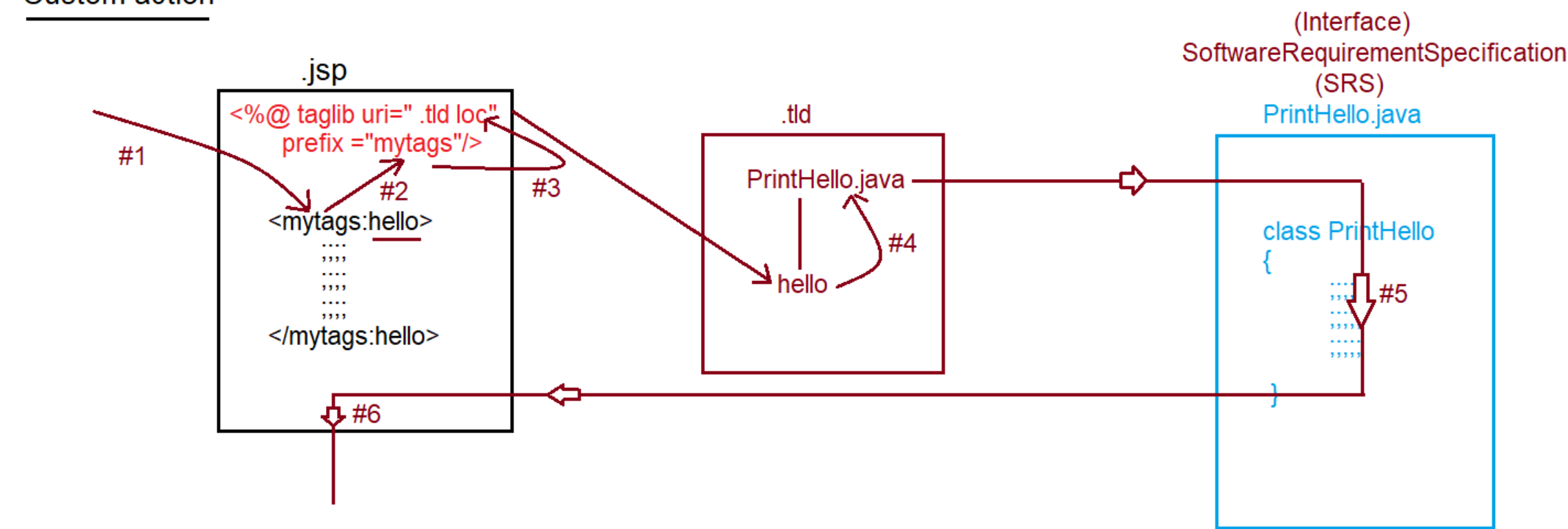
getAttribute(name,scope) => it will check in the respective scope, and if it is availale it would return the value otherwise it would return null.

findAttribute(name) => first it will check in page scope, followed by request scope, sessionscope and application scope in any one of this scope if the object is availaibe it would return the value otherwise it would return null.

JSP Actions



Custom action



To implement simple if else, loop statements we have to provide lot of java code internally w.r.t interfaces supplied by SUNMS for custom actions to take palce in jsp code.

To Overcome this JSP technology has provided a seperate tag library for simple java syntax implementation and frequently used operations.
JSTL is an abstraction given by SUNMS and its implementation is given by Server vendors.

tomcat implemented jars in the following location
C:\Tomcat 9.0\webapps\examples\WEB-INF\lib