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Posted on August 24, 2014 by Arulkumaran Kumaraswamipillai



JSF or JavaScript based frameworks like angularjs, ember, etc are more popular than JSPs for web developemnt.

Q1. What is a JSP? How does it differ from a Servlet?

A1. JSP stands for Java Server Pages. JSP technology extends the Servlet technology, which means anything you can do with a Servlet you can do with a JSP as well. Writing **out.println (...)** statements using a Servlet is cumbersome and hard to maintain, especially if you need to send a long HTML page with little dynamic code content. Worse still, every single change requires recompilation of your Servlet.

Both Servlets and JSPs are complementary technologies. You can look at the JSP technology from an HTML designer's perspective as an extension to HTML with embedded dynamic content and from a Java developer's as an extension of the Java Servlet technology. JSP is commonly used as the presentation layer for combining HTML and Java code. While Java Servlet technology is capable of generating HTML with out.println(".....") statements, where "out" is a PrintWriter. This process of embedding HTML code with escape characters is cumbersome and hard to maintain. The JSP technology solves this by providing a level of abstraction so that the developer can use custom

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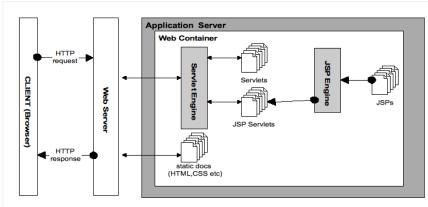
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tags and action elements, which can speed up Web development and are easier to maintain.

- Q2. What do you understand by the term JSP translation phase or compilation phase?
- A2. As shown below in the figure the JSPs have a translation or a compilation process where the JSP engine translates and compiles a JSP file into a JSP Servlet. The translated and compiled JSP Servlet moves to the execution phase (run time) where they can handle requests and send responses.



JSPs are translated to JSP Servlets before serving requests.

Unless explicitly compiled ahead of time, JSP files are compiled the first time they are accessed. On large production sites, or in situations involving complicated JSP files, compilation may cause unacceptable delays to users first accessing the JSP page. The JSPs can be compiled ahead of time (i.e. precompiled) using application server tools/settings or by writing your own script.

- Q3. What are the different scope values in a JSP?
- A3. Page, Request, Session, and Application.

Scope	Object	Comment
Page	PageContext	Available to the handling JSP page only.
Request	Request	Available to the handling JSP page or Servlet and forwarded JSP page or Servlet.
Session	Session	Available to any JSP Page or Servlet within the same session.

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Application	Application	Available to all the JSP pages and
		Servlets within the same Web
		Application.

- Q4. What are implicit objects and list them?
- A4. Implicit objects are the objects that are available for the use in JSP documents without being declared first. These objects are parsed by the JSP engine and inserted into the generated Servlet. The implicit objects are:
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Implicit object	Scope	Comment	How good are your?			
request	Request	Refers to the current request from the cli	open all close all Career Making Know-how			
response	Page	⊕ Job Hunting & Resume W				
pageContext	Page	Refers to the page's environment.				
session	Session	Refers to the user's session.				
application	Application	Same as ServletContext. Refers to the web application's environment.				
out	Page	Refers to the outputstream.				
config	Page	same as ServletConfig. Refers to the servlet's configuration.				
page	Page	Refers to the page's Servlet instance.				
exception	Page	xception created on this page. Used for error handling. Only available if it is ar errorPage with the following directive:				
		1 <me %="" iserrorpage="true" page=""></me>				
		The "exception" implicit object is not available for global error pages declared through web.xml. You can retrieve the java.lang.Throwable object as follows:				
		1 <= request.getAttribute("javax.	servlet.error.exception") %>			

Q5. What are the enhancements made to the EL in JEE 7?A5. Java EE 7 is an overhaul of the Java Expression Language API

known as Expression Language. The enhancements to the EL API

includes support for lambda expressions, static field and method access, as well as improvements for collection processing. Prior to Java EE 7, the Java Expression Language was a tightly coupled component of the JSF and JSP APIs. The EL API now offers developers the ability to invoke ad-hoc Java EL with "ELProcessor".

```
1 ELProcessor el = new ELProcessor();
2 assert ((Integer)(el.eval("((x,y) -> x+y)(3, 2)"))) == 5;
3
```

Q6. What Is the difference between **JSP** and **JSPF**?

A6. JSPF is JSP Fragment, which is a fragment included into another JSP page with the include directive, but not the include action. JSP Fragments can be compared to server side includes. These fragments are not compiled on their own, however there are compiled along side the page in which its included.

```
1 <%@include file="/WEB-INF/jspf/example.jspf" %>
```

Q7. What are custom tags in JSPs?

A7. Custom tags allow a cleaner separation between the look-and-feel of your application and its logic, compared to the original scriptlet syntax offered by JSP. There are two ways to implement a tag library: tag files, and tag classes. Tag files use a syntax that is nearly the same as JSP, but can be parameterized with attributes in the tag.

Tag class example:

To create a custom tag class, we need three things:

- 1) Tag handler class: In this class we specify what our custom tag will do when it is used in a JSP page.
- **2)** TLD file: Tag descriptor file where we will specify our tag name, tag handler class and tag attributes.
- 3) JSP page: A JSP page where we will be using our custom tag.

```
14
```

TLD File: This file should present at the location: WEB-INF/ and it should have a .tld extension.

message.tld

```
1 <taglib>
2 <tlib-version>1.0</tlib-version>
3 <jsp-version>2.0</jsp-version>
4 <short-name>My Custom Tag</short-name>
5 <tag>
6 <name>Msg</name>
7 <tag-class>myapp.com.Message</tag-class>
8 <body-content>empty</body-content>
9 </tag>
10 </taglib>
11
```

Using custom tag in JSP: Above we have created a custom tag named "Msg". Here we will be using it.

Using tag files in JSP 2.2 or later container

```
1 %@ tag body-content="empty" %>
2 "Sample custom tag....."
```

put the tag file in WEB-INF/tags/mytags/message.tag

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