

# ICON OF JAVA

# ADV. JAVA JSP

## 7. JSP Implicit Objects



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## JSP Implicit Objects

In J2SE applications, for every java developer it is common requirement to display data on command prompt.

To perform this operation every time we have to prepare PrintStream object with command prompt location as target location

```
PrintStream ps=new PrintStream("C:\\program Files\\....\\cmd.exe") ;  
  
ps.println("Hello");
```

In java applications, PrintStream object is frequent requirement so that java technology has provided that PrintStream object as predefined object in the form of out variable in System class.

```
public static final PrintStream out;
```

Similarly in web applications, all the web developers may require some objects like request, response, config, context, session and so on are frequent requirement, to get these objects we have to write some piece of java code.

Once the above specified objects are as frequent requirement in web applications, Jsp technology has provided them as predefined support in the form of Jsp Implicit Objects in order to reduce burden on the developers.'

Jsp technology has provided the following list of implicit objects with their respective types.

1. out-----> javax.servlet.jsp.JspWriter
2. request-----> javax.servlet.HttpServletRequest
3. response -----> javax.servlet.HttpServletResponse
4. config -----> javax.servlet.ServletConfig
5. application -----> javax.servlet.ServletContext
6. session -----> javax.servlet.http.HttpSession
7. exception -----> java.lang.Throwable
8. page -----> java.lang.Object
9. pageContext -----> javax.servlet.jsp.PageContext

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**Q: What is the difference between PrintWriter and JspWriter?**

**Ans: PrintWriter** is a writer in servlet applications, it can be used to carry the response. PrintWriter is not BufferedWriter so that its performance is very less in servlets applications.

**JspWriter** is a writer in Jsp technology to carry the response. JspWriter is a BufferedWriter so that its performance will be more when compared with PrintWriter.

**Q: What is PageContext? and What is the purpose of PageContext in Jsp Applications?**

**Ans: PageContext** is an implicit object in Jsp technology, it can be used to get all the Jsp implicit objects even in non-jsp environment.

To get all the Jsp implicit objects from PageContext we have to use the following method.

```
public Xxx getXxx()
```

Where Xxx may be out, request, response and so on.

**Ex:** JspWriterout=pageContext.getOut();

```
HttpServletRequest request=pageContext.getRequest();
```

```
ServletConfig config=pageContext.getServletConfig();
```

**Note:** While preparing Tag Handler classes in custom tags container will provide pageContext object as part of its life cycle, from this we are able to get all the implicit objects.

In Jsp applications, by using pageContext object we are able to perform some operations with the attributes in Jsp scopes page, request, session and application like adding an attribute, removing an attribute, getting an attribute and finding an attribute.

To set an attribute onto a particular scope pageContext has provided the following method.

```
public void setAttribute(String name, Object value, int scope)
```

Where scopes may be

```
public static final int PAGE_SCOPE=1;
public static final int REQUEST_SCOPE=2;
public static final int SESSION_SCOPE=3;
public static final int APPLICATION_SCOPE=4;
```

**Ex:** <%  
pageContext.setAttribute("a", "aaa", pageContext.REQUEST\_SCOPE);  
%>

To get an attribute from page scope we have to use the following method.

```
public Object getAttribute(String name)
```

**Ex:** String a=(String)pageContext.getAttribute("a");

If we want to get an attribute value from the specified scope we have to use the following method.

```
public Object getAttribute(String name, int scope)
```

```
Ex: String uname=(String)pageContext.getAttribute("uname",  
pageContext.SESSION_SCOPE);
```

To remove an attribute from a particular we have to use the following method.

```
public void removeAttribute(String name, int scope)
```

```
Ex: pageContext.removeAttribute("a", pageContext.SESSION_SCOPE);
```

To find an attribute value from page scope, request scope, session scope and application scope we have to use the following method.

```
Public Object findAttribute(String name)
```

```
Ex: String name=pageContext.findAttribute("uname");
```

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