

JSP - Implicit Objects

implicit objects are *created by the web container* that are available to all the jsp pages. There are in total 9 Implicit objects

A list of the 9 implicit objects is given below:

implicit objects	Class
out	javax.servlet.jsp.JspWriter
request	javax.servlet.http.HttpServletRequest
response	javax.servlet.http.HttpServletResponse
session	javax.servlet.http.HttpSession
application	javax.servlet.ServletContext
exception	javax.servlet.jsp.JspException
Page	java.lang.Object
pageContext	javax.servlet.jsp.PageContext
Config	javax.servlet.ServletConfig

Out: *It can be used for writing content to the browser*

```
Example: out.print("Hello World");
```

Request: *Its purpose is to get the data on a JSP page which has been entered by user on the previous JSP page.*

```
Example: String name= request.getParameter("name");
```

Response: Response object helps the user to give the response to the client after page load.

```
Example: response.sendRedirect("http://studyeasy.org");
```

Session: It is used for storing user's data to make it available on other JSP pages till the user session is active.

```
Example: session.getAttribute("name");
```

Application: it is used for getting application wide initialized parameter(s) and to maintain useful data across whole JSP application.

```
Example: application.getAttribute("BuiltVer");
```

Exception: This object is used in exception handling for displaying the error messages. This object is only available to the JSP pages, which has isErrorPage set to true.

Example:

```
<!-- Exception.jsp -->
<%@ page isErrorPage="true" %>
Exception occurred: <%= 25/0 %>
```

Page: The page implicit object represents the JSP page itself. It is of type object. It is rarely used in JSP pages.

pageContext: pageContext implicit object provides methods to access other implicit objects. Specifically pageContext object has methods like getPage, getRequest, getResponse etc. It also provides methods to set and get attributes. The scope of the pages attribute is the processing of that page.

Config: This is a Servlet configuration object and mainly used for accessing getting configuration information such as servlet context, servlet name, configuration parameters etc.

Example: `String servletName=config.getServletName();`