**JavaServer Pages(JSP)**

* JavaServer Pages is a technology which supports the dynamic as well as static contents of a web page. It deals with the interface of a java web application. Codes written in Java are inserted into an HTML page with the use of JSP tags(<% … >). It could be implemented with the use of JavaBeans, Enterprise JavaBeans, etc. While “Servlet is HTML inside Java”, “JSP is Java inside HTML” – codes are inserted inside the HTML.
* JSP runs inside a Java-capable HTTP server. An official reference implementation for this is the Apache Tomcat Server. This provides an environment for Java HTTP and implements the specifications for the JavaServer Pages. When a JSP page is first requested, Tomcat will translate it into a servlet, compiles the servlet, loads it and then execute.

Just like servlet, JSP has its methods that corresponds to servlet’s init(), destroy(), and service().

Superinterface: javax.servlet.Servlet

Subinterface: HttpJspPage

**Methods:**

**\_jsInit()** – a method invoked only when the JSP page was initialized. It can be overridden by the page author for initializing resources such as the database.

**\_jspDestroy()** – a method called whenever JSP page is to be destroyed and is only called when the jsp container is shut down. It can be overridden by the author of the page just like the jspInit method, to release or close resource connections and open files.

**\_jspService()** – this methods corresponds to the body of the jsp page and is automatically defined by the jsp container. It generates a response for a certain request and for the HTTP methods(i.e GET, POST, DELETE). Has two parameters: **HttpServletRequest** and **HttpServletResponse.**

**JSP Pre-Defined Variables**

**request -**  a HttpServletRequest object for the HTTP request message used to retrieve query parameters in the request message.

**response –** an HttpServletResponse object keeping track of the response message

**session –**  an HttpSession object keeping track of the client’s session. It’s attributes can be used to pass information between pages using **getAttribute(“name”) and setAttribute(“name”, object).**

**application** – a ServletContext object retrievd via the getServletContext(), which maintains a information about this web context. Its attributes can be used to pass information between jsp pages and servlets with the methods **getAttribute("name") and setAttribute("name", object**).

**config**: A ServletConfig object, obtained via getServletConfig(). It could be used to retrieve the servlet initialization parameters provided in "WEB-INF\web.xml", via method getInitParameter("paramName").

**page**: Can be used to access the elements of this page.