**DOCUMENTAION ABOUT SERVLET AND JSP**

**SERVLET**

* Servlet is defined as the server component

There are two types of servers

1. web server

2. App server

Web server is the one which works on web side the best web server is Apache Tomcat it is used by most of the companies for its reliability and its process

App server is the one which runs on IDE by inbuilt itself so that the server inside IDE like an application is called as the app server the best example of app server is glassfish which works on the internal browser of the IDE

**Servlet is if client sends the request to the server the server checks it is static page or dynamic page if it is dynamic page so it moves to the web container (tomcat) this servlet want to map some servlet with the help of web.xml file in which the define the servlet name and servlet mapping through which the response goes to the client with HTML page**

**Servlet type = class name**

**Servlet mapping = URL pattern (it moves that particular servlet)**

* Servlet class which extends the HTTP servlet
* The working of HTTP servlet is taking request and process the response
* The response dynamic html page goes to the server to the client machine as response object called **serialization**
* HTTPServletRequest and HTTPServletResponse for those we need not want to create object for it the tomcat will create object for it both http are interface

**Do get and do post**

* Get method is not secure while post method is secure because in get method the values will show on address bar which might not secure
* If we use post method it wont show in address bar so it might safe
* But by default is get method only

Thus the servlet is if we want to create a page want to fetch data from database that fetching may be in any language we use java

**JSP – Java Server Page**

* The main advantage of jsp over servlet is it has its own object already
* In servlet we have to create class and then want to extends http servlet then we have to create method of servlet may be doget or dopost we have to pass two parameters request and response and then we have to create object for printwriter and to import the package
* But in jsp it is very easy it creates its own object and we can type our java code in jsp page itself with some tags
* <% %> - scriptlet tag the java code will be written in betwwen it wont shows in html page
* <%! %> - it is declaration tag in which we can declare the datatypes and variables which works on inside the class outside the service method
* <%= %> - expression tag which is like system.out.println statement
* <% @ page import %> - directive tag used for importing
* Using of jsp is not using of servlet the tomcat is called as http server and servlet container it only works on servlet request only the question arise how jsp works
* The jsp code converted into servlet code while compiling and moves to the server the jsp might simple our work but the internal process is jsp converted into servlet and then it works.