**Steps to Create My First Servlet**

1. Created the “Dynamic Web Project” by name “studentsApp” by selecting web module 2.5 to develop Dynamic Web Application

**NOTE:**

* In eclipse we should be in “Java EE” perspective to create Dynamic Web Project
* Dynamic Web Project has following 3 folders

1. src ---> “.java” files will be present
2. build ---> “.class” files will be present
3. WebContent ---> other than “.java” files will be present
4. Created the “index.html” file under “WebContent” folder
5. Created the servlet under “src” folder by extending “**HttpServlet**”

* Fixed the compilation error by copying the “servlet.jar” file to

“WebContent/WEB-INF/lib” folder

* Overridden a method by name “doGet()”
* **javax.servlet.\*** is the package representation of Servlet API
* In case of Dynamic Web Project, every JAR file **SHOULD be kept under** “WebContent/WEB-INF/lib” folder
* Any Class which extends “**javax.servlet.http.HttpServlet**” is called as Servlet

1. Configured URL for the servlet in “WebContent/WEB-INF/web.xml”

**Note:**

* Every Servlet MUST have an unique URL & that URL MUST be present in web.xml
* NO NEED to configure URL for “index.html”

C:\Praveen\Source\_Code\bece1011\_Workspace\studentsApp

C:\Praveen\apache-tomcat-8.5.9

1. Generated the WAR File from Dynamic Web Project (**Build Process**)

**NOTE:**

* To generate WAR file, right click on Dynamic web project, select “Export” & click on WAR File
* In the pop-up chose the destination to keep the WAR file

WAR (**W**eb **AR**chive) File:

* WAR file “**represents Dynamic Web Application”** & helps to transfer dynamic web application from one location to another location
* It’s a Collection of .class files

+ Other necessary resources

+ Dependent JAR files (one/more)

C:\Praveen\Source\_Code\bece1011\_Workspace\studentsApp

WAR File

C:\Praveen\apache-tomcat-6.0.18

1. Transferred the WAR file to Web Server “Web Path” Location (**Deployment Process**)

**Web Path:**

* It’s a Path in Webserver in which Web Applications are present
* Web Path varies from Webserver to Webserver, we have to refer

the manual to get this information

* In case of Tomcat web path is “ <Tomcat\_Location>\webapps ”
* Hence in Tomcat, WAR file SHOULD be kept under “webapps” folder

1. Started the Webserver

**Note:**

* When we start the webserver it should not throw any exception in the console
* At the time of starting the server, webserver extracts the contents of WAR file to the folder by same name inside “webapps” folder

1. Accessed the developed dynamic web application resources using Web browser by using corresponding web URL’s
2. Accessed the HTML Page (**Static Web Resource**)

<http://localhost:8080/studentsApp/index.html>

**NOTE:**

* In case of Static Resource URL consists of “**Resource File Name”**
* HTML generates “Static Response”

1. Accessed the Servlet by typing the configured URL present in web.xml (**Dynamic Resource**)

<http://localhost:8080/studentsApp/currentDate>

**NOTE:**

* In case of Dynamic Resource web URL consists of “**configured URL”** present in web.xml
* Servlet generates “Dynamic Response”