

Java-Web-Component-Dev-Guide

This repository features basic guide to Java Web Component Development using Apache Tomcat Ver8 and Eclipse

=====SETUP=====

Steps(for Mac/Linux Users):

- i) Download JDK of appropriate version and set up Java Environment
- ii) Download latest version of Eclipse (Code Editor)
- iii) Download Apache Tomcat. Here, Apache is the server and Tomcat is server container
- iv) Go to the downloaded Tomcat folder -> conf -> tomcat-users.xml -> add user using "<user username="--any--" password="--any--" roles="manager-gui" />" within <tomcat-users> tag
- v) Go to Terminal and using "cd" command move to Tomcat folder and then to bin directory
- vi) Using "./" command run startup.sh which will start your server
- vii) Type localhost:8080 on your web browser, if this doesn't work then go to: Tomcat folder -> conf -> server.xml -> Change the port no. to "9090"(for eg.) under the "<Connector>" tag with protocol "HTTP/1.1" which finally looks like:
" <Connector port="9090" protocol="HTTP/1.1" connectionTimeout="20000 redirectPort="8443" /> "
- viii) Restart the server and type localhost:9090 on the browser
- ix) Go to Manager app and login
- x) If you successfully login, then you are done with your set up...

=====Basic folder Structure=====

bin : imp files : startup.sh and shutdown.sh
 use : to start up and shutdown server manually

conf : imp files : tomcat-users.xml server.xml and web.xml
 use : configuration related files

lib : imp files : servlet-api.jar and jsp-api.jar
 use : jars(Java Archive similar to zip files) to be used in our web apps

webapps : Place where all webapps are deployed manually

=====Using Eclipse for Java WCD=====

- i) Configure your server on Eclipse : Eclipse -> Prefernces -> Server -> Run time envir. -> Add
- ii) File -> New -> Dynamic Web Project -> Name It and Click Ok
- iii) Go to the Project created and Go to properties -> In Java Build Path -> Libraries ->Add External JARs -> Tomcat/lib -> Servlet-api.jar -> Order And Export -> Select All -> Apply and Close

===== Books and Resources =====

Head First Servlet and JSP (Book)
Tutorial's Point (Website)
Manning SCWCD (Book)

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