**JSF web application**

* Downloaded apache-tomcat-7.0.32-windows-x64.zip server from this link: <https://archive.apache.org/dist/tomcat/tomcat-7/v7.0.32/bin/> , Then go to Window > show view > server> from down click the link > choose the folder and select Apache tomcat v 7.0> download and install (I think so)

Step1:  
 Click Window menu - Preferences - Server - Runtime Environments   
Step 2:  
 Click Add - expand Apache - Select Apache Tomcat 7Step 3:  
 Browse the Tomcat Installation folder or you can just click   
 the Download and Install  
Step 4:  
 Click Finished

*From <*[*https://stackoverflow.com/questions/25250835/how-to-add-apache-tomcat-7-in-eclipse-4-4-luna?rq=1*](https://stackoverflow.com/questions/25250835/how-to-add-apache-tomcat-7-in-eclipse-4-4-luna?rq=1)*>*

* Downloaded 2 jars files from this link <https://stackoverflow.com/questions/44858251/when-downloading-mojarra-libraries-for-jsf-it-is-showing-error-zip-file-is-empt>

Graphical user interface, text, application

Description automatically generated

* Change the web.xml to

<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee

<http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd>"

version="3.1">

* Other instructors is from this link: <https://examples.javacodegeeks.com/enterprise-java/jsf/jsf-example-eclipse-tomcat/>