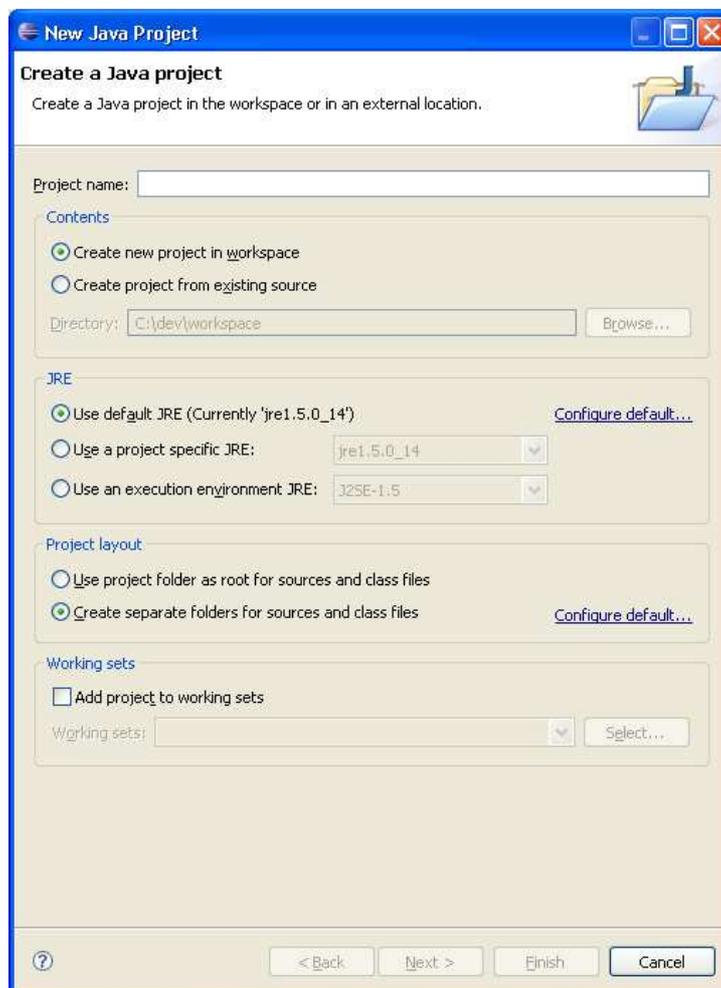


Configuring Eclipse to run the DotCMS and setting up Eclipse debugging

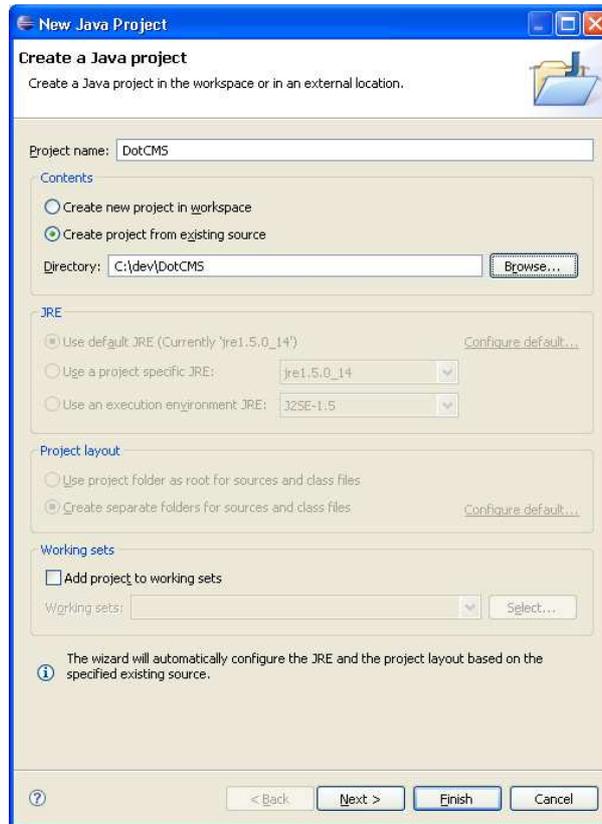
1. Download Eclipse IDE for Java EE Developers from:
<http://www.eclipse.org/downloads/>
2. Download and Install Subclipse following instructions from their website:
<http://subclipse.tigris.org/install.html>
3. Download Velocity UI for Eclipse (optional)
<http://veloedit.sourceforge.net/>
4. Go to dotCMS.org and checkout from SVN repository following instructions on the website
http://www.dotcms.org/downloads/source_svnaccess.dot
5. Refer to dotCMS install documentation to make sure database configuration is done properly.
6. Configure Eclipse to run dotCMS

File → New → Java Project

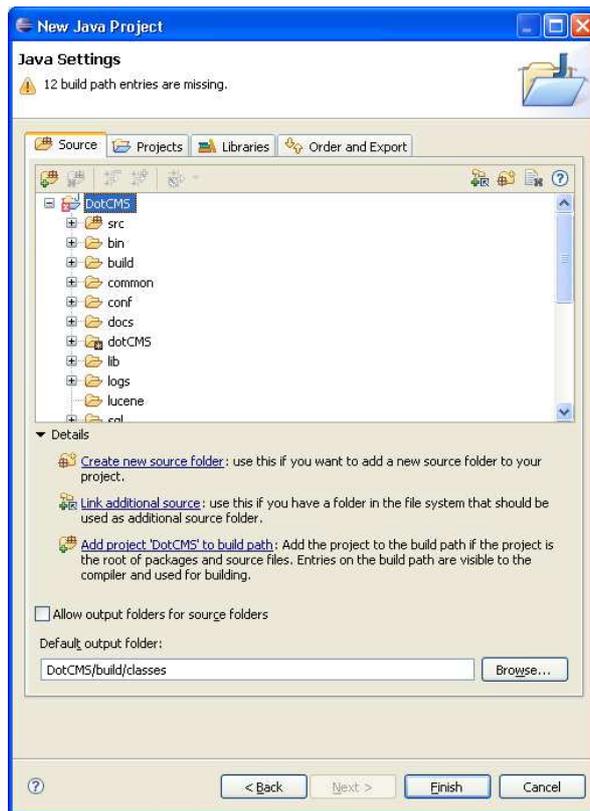


Type in the name of your project (it is recommended that this be the same as your SVN repository name for clarity)

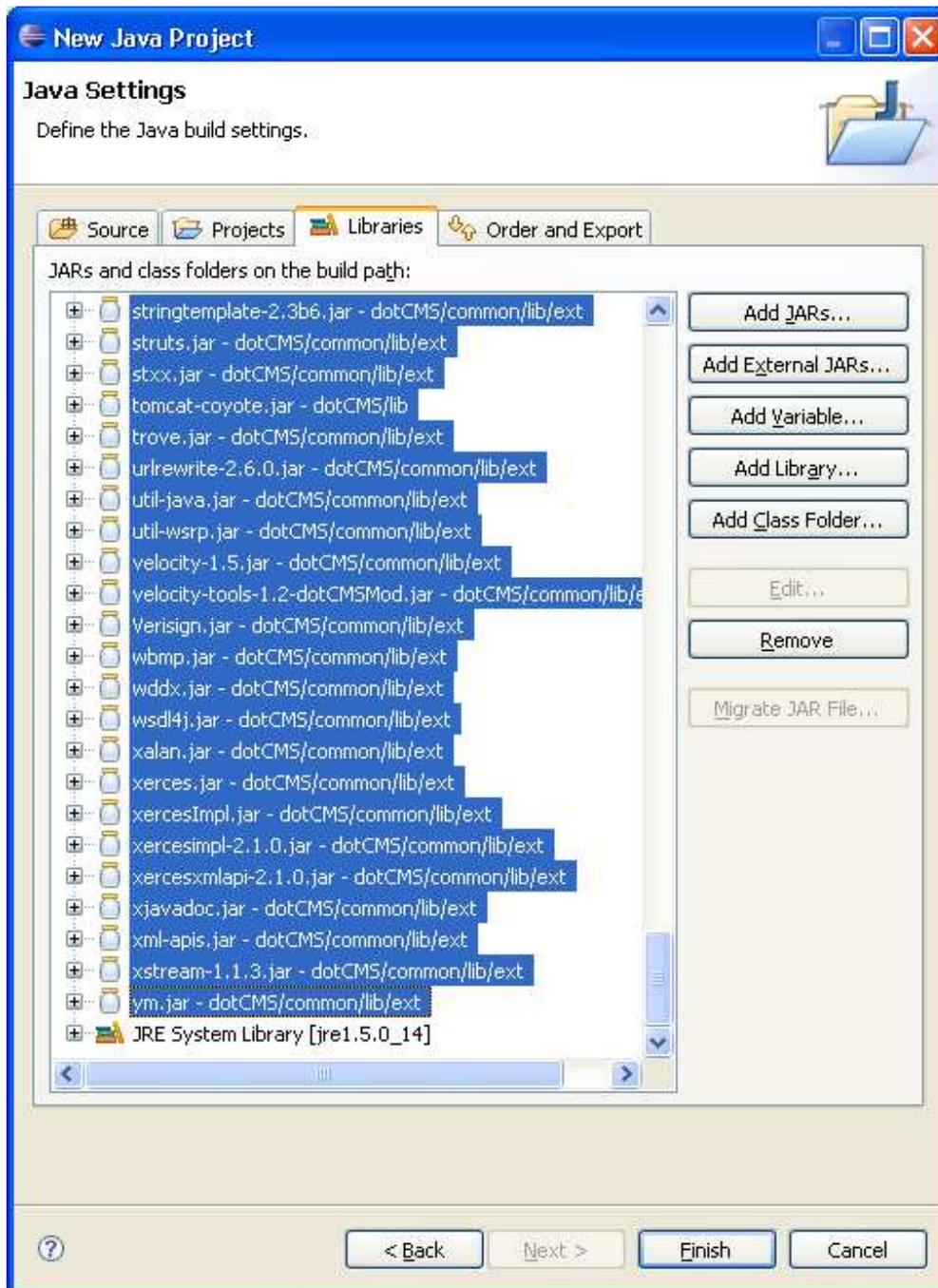
Click on the “Create project from existing source” radio button and browse for your dotCMS directory



Click Next



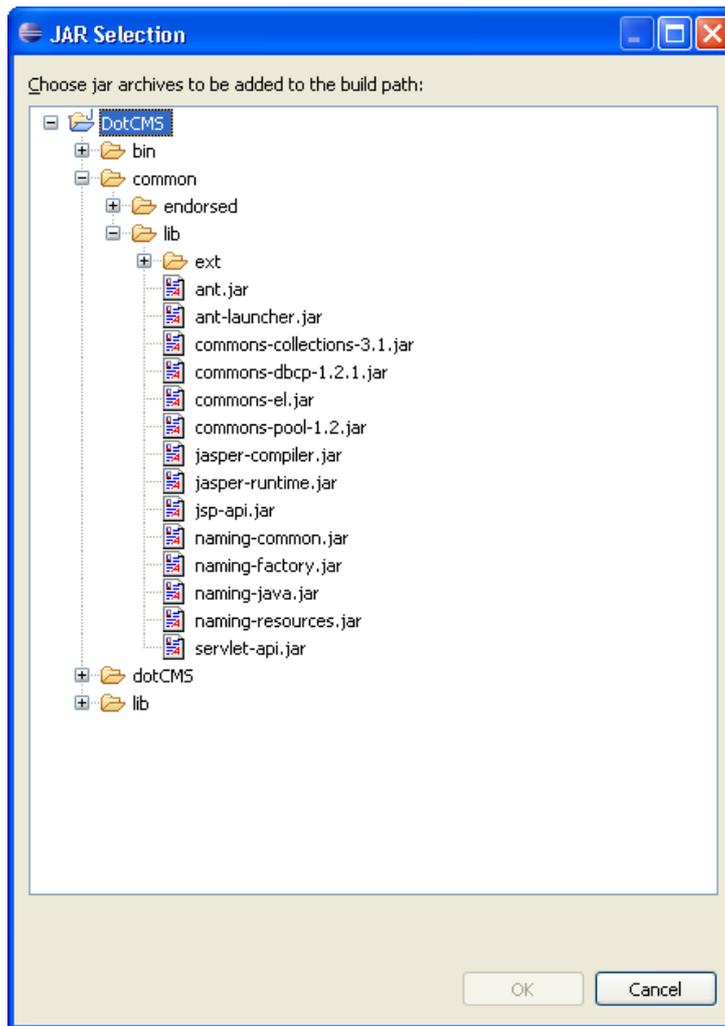
Click on the Libraries Tab and remove all jars from the library except the last one entitled “**JRE System Library**” by highlighting them and clicking on the “**Remove**” button (see screenshot below)



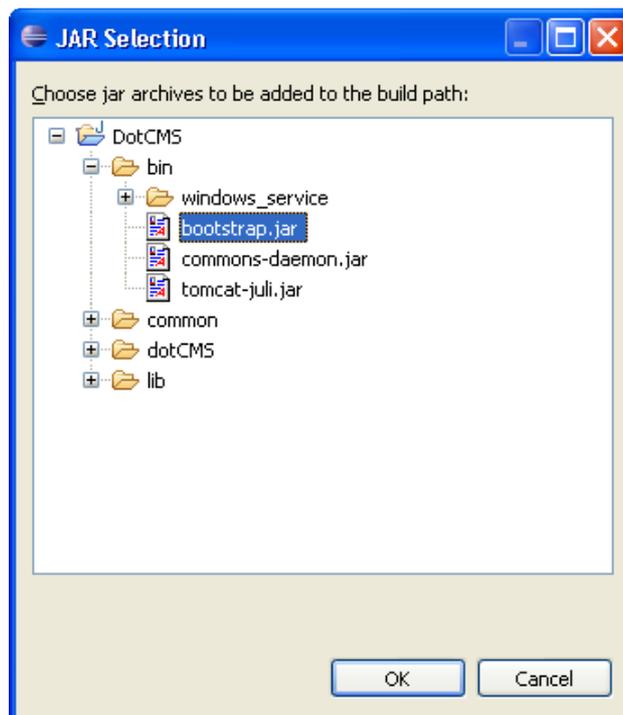
Click on the "Add JARs" button

All libraries from the following folders should be added to the Libraries path:

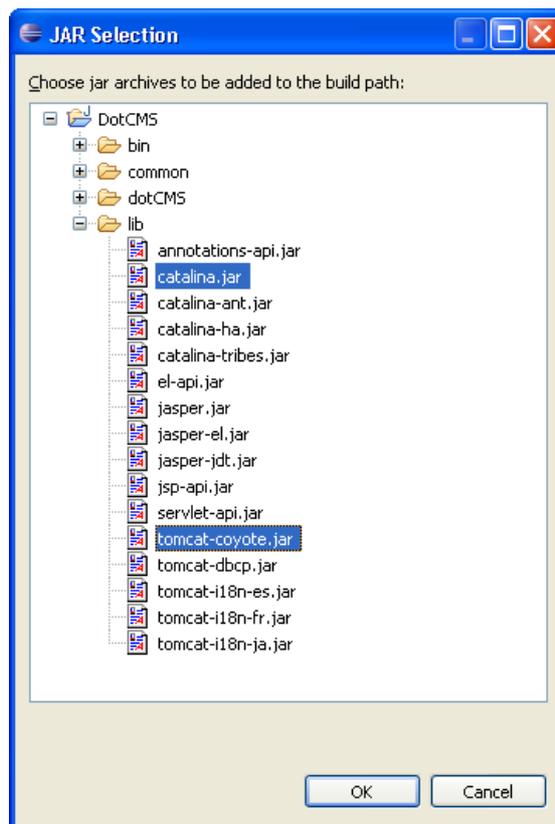
/common/lib/ext/



/bin/bootstrap.jar

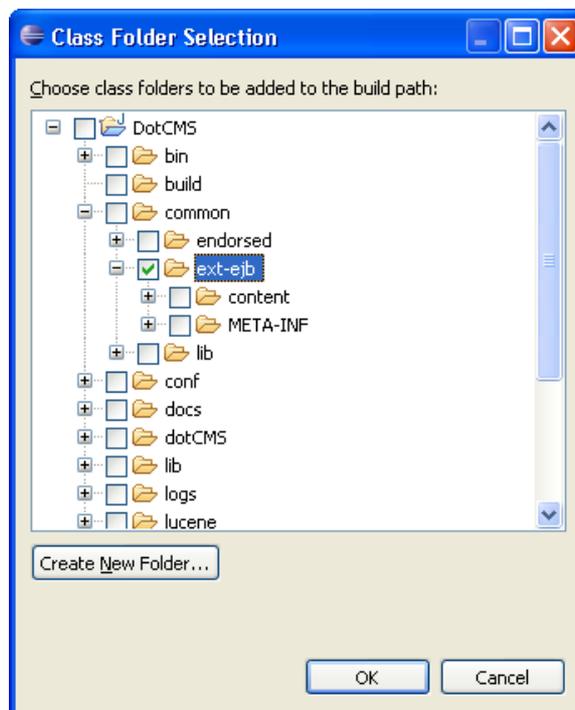


/lib/ (just the **catalina.jar** and the **tomcat-coyote.jar** files only!!!)



****special note:** webdav setup depends on last two jars

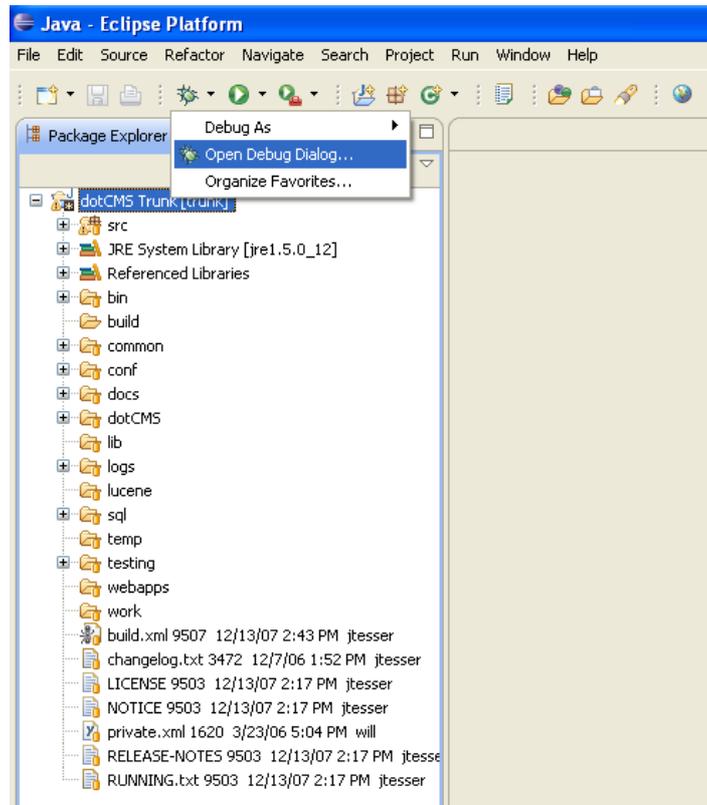
Add class folder (open the common directory and check the **ext-ejb** folder)



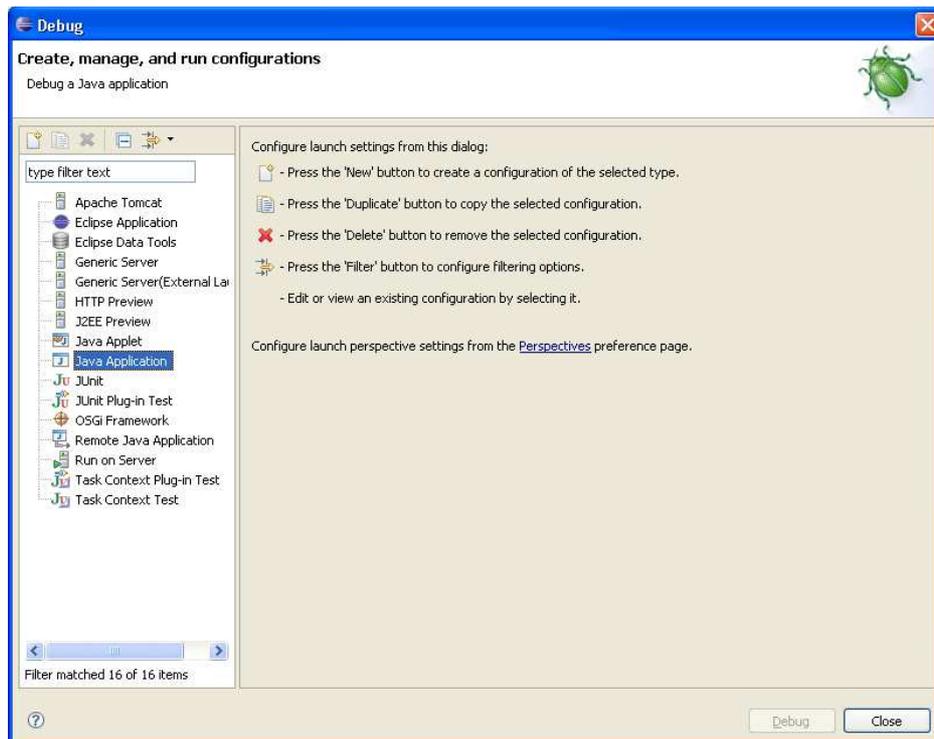
Click **"OK"** to add class folder and then **"Finish"**

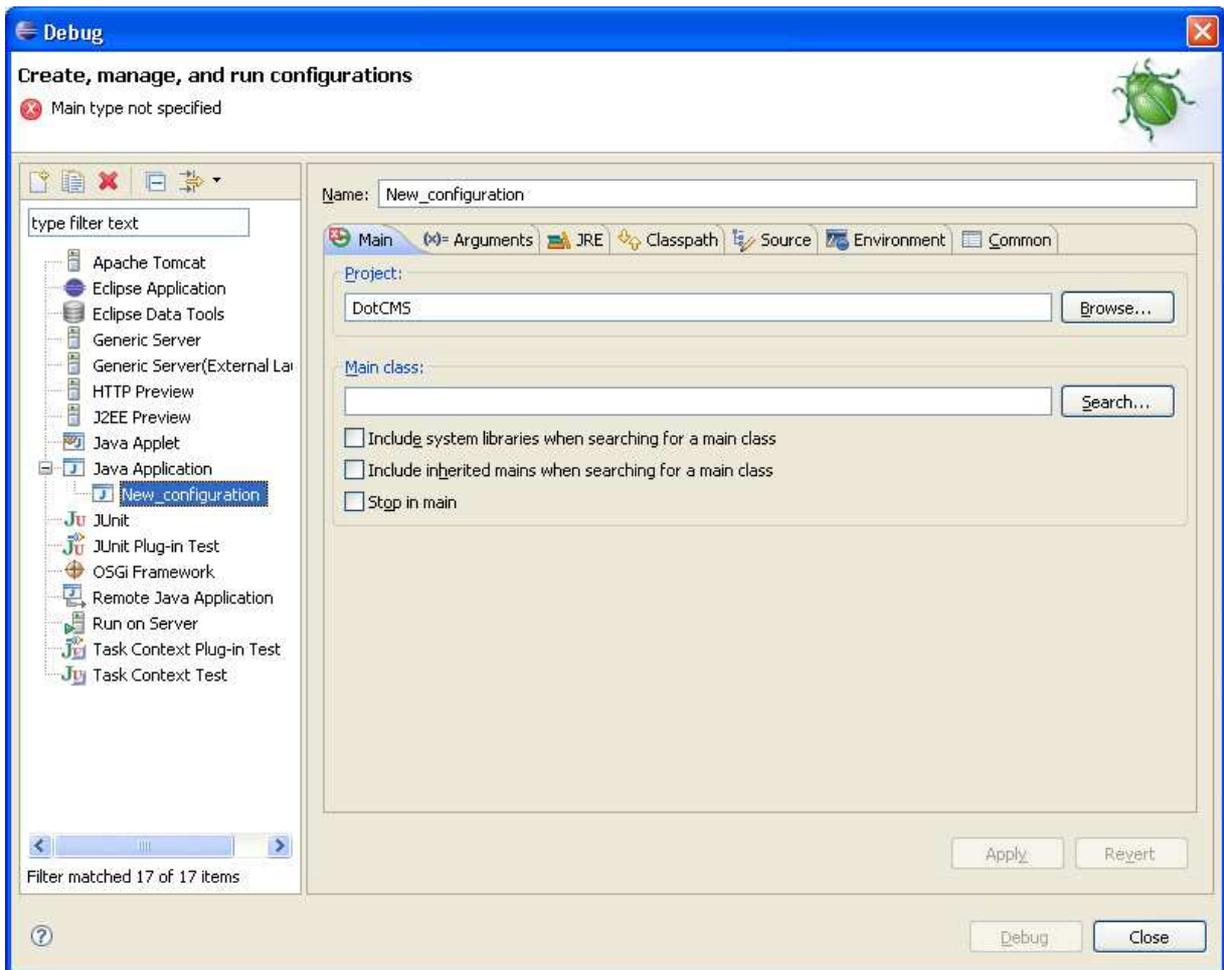
SETTING UP THE DEBUG ENVIRONMENT

Click on the debug down arrow and then click on **“Open Debug Dialog...”**

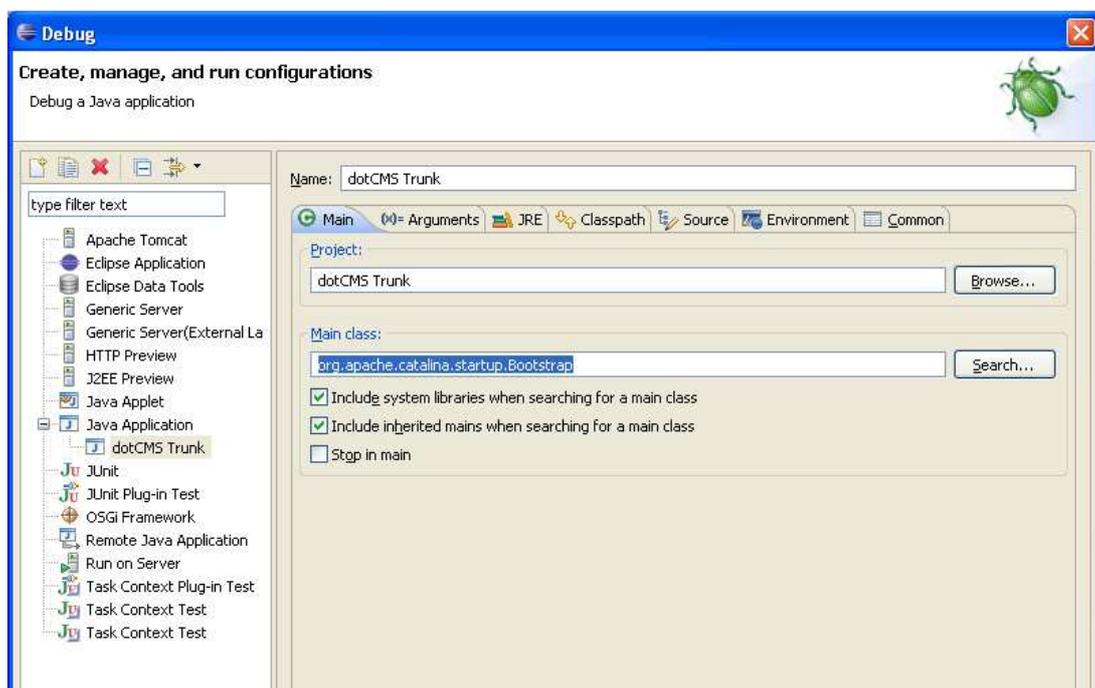


Right click on **Java Application** and select **New** (configuration)



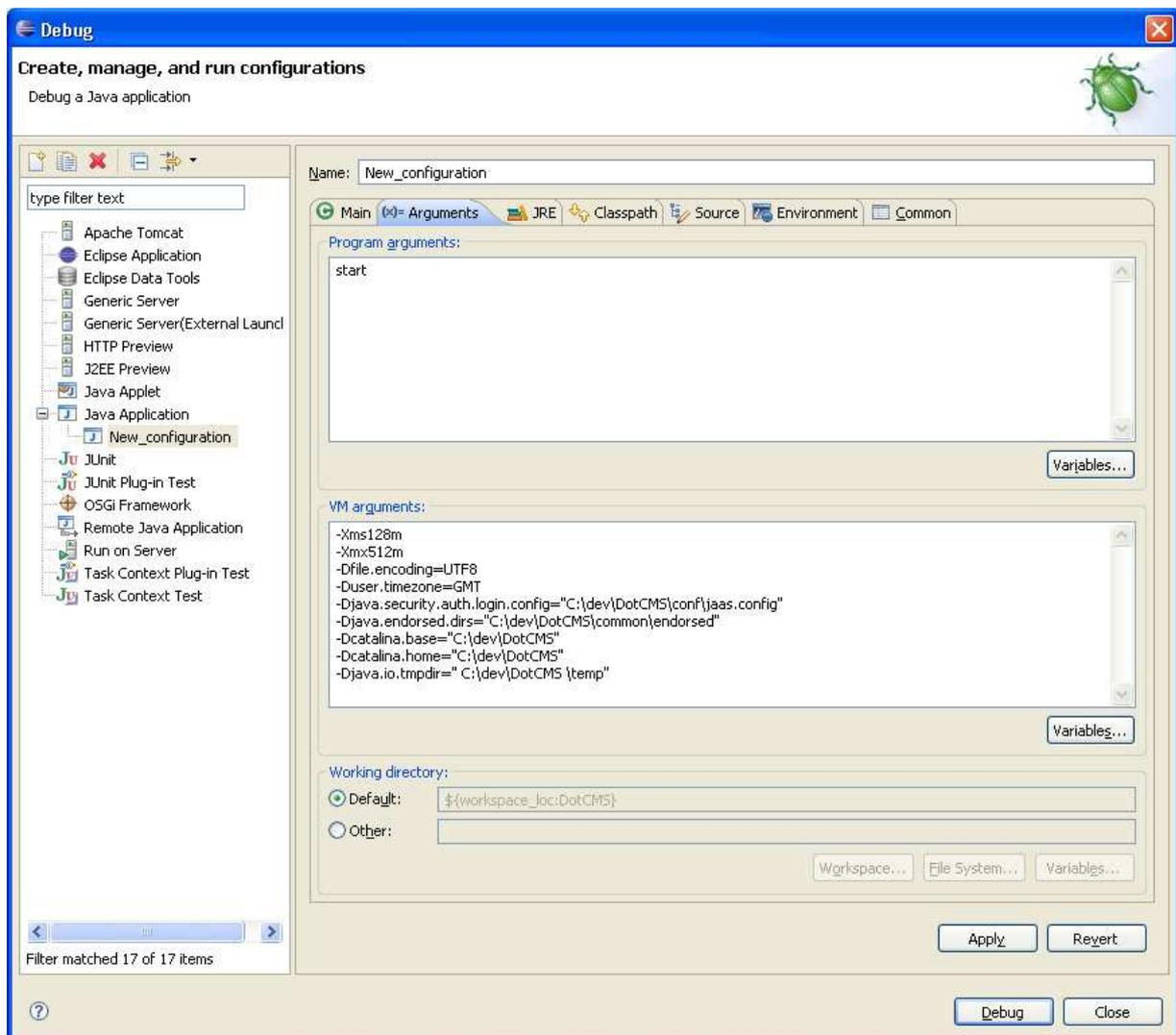


In “Main Class:” type “**org.apache.catalina.startup.Bootstrap**” and click on “Include system libraries when searching for a main class” and “Include inherited mains when searching for a main class”

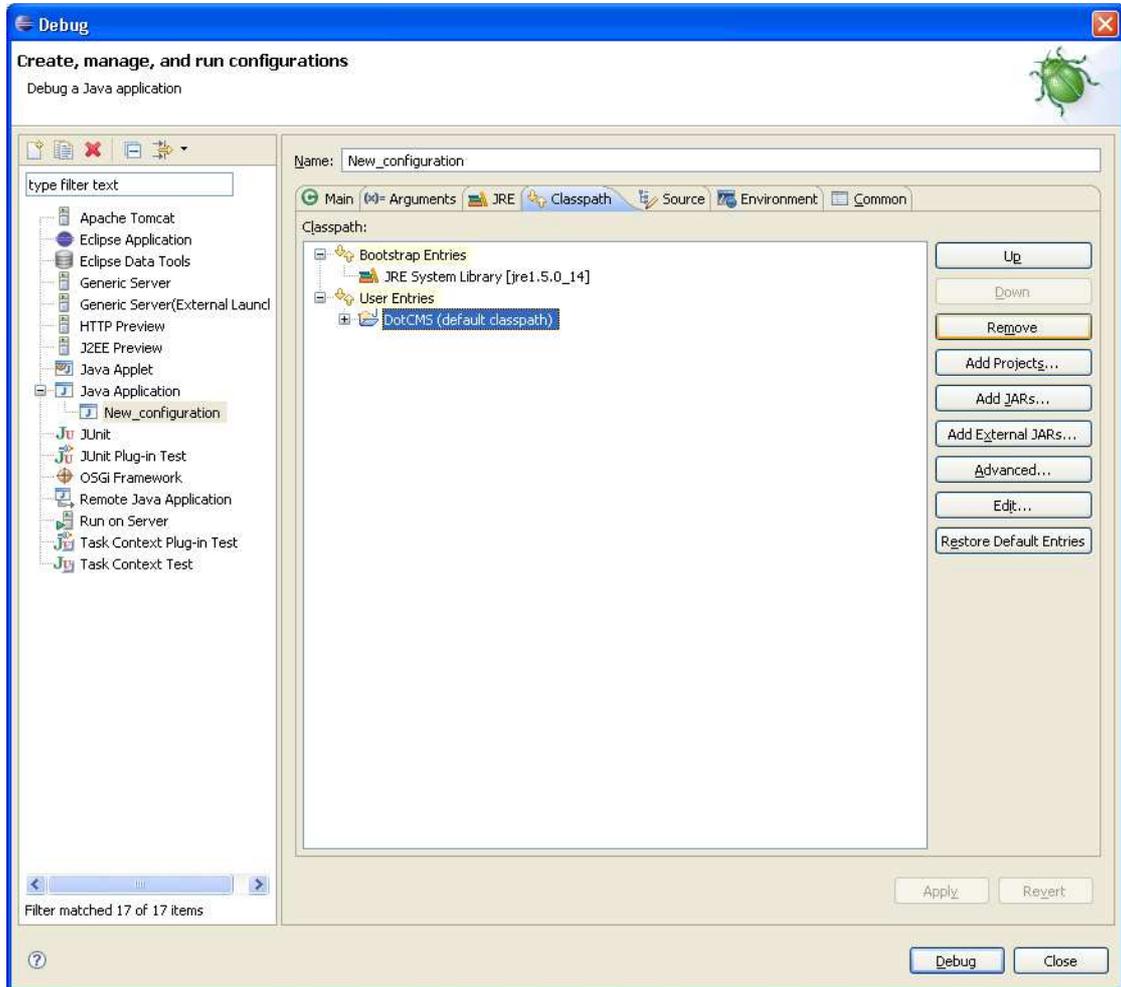


Click on the “**Arguments**” tab and add the word “**start**” under “Program Arguments” and under “VM arguments” add the following (be sure to correct the paths to your own dotCMS install):

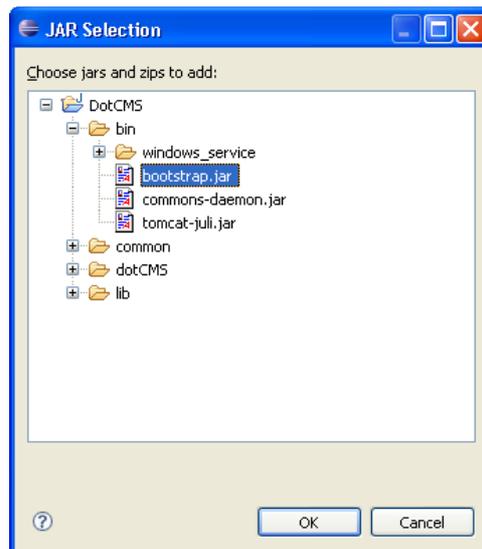
- Xms128m
- Xmx512m
- Dfile.encoding=UTF8
- Duser.timezone=GMT
- Djava.security.auth.login.config="C:\dev\DotCMS\conf\jaas.config"
- Djava.endorsed.dirs="C:\dev\DotCMS\common\endorsed"
- Dcatalina.base="C:\dev\DotCMS"
- Dcatalina.home="C:\dev\DotCMS"
- Djava.io.tmpdir=" C:\dev\DotCMS \temp"

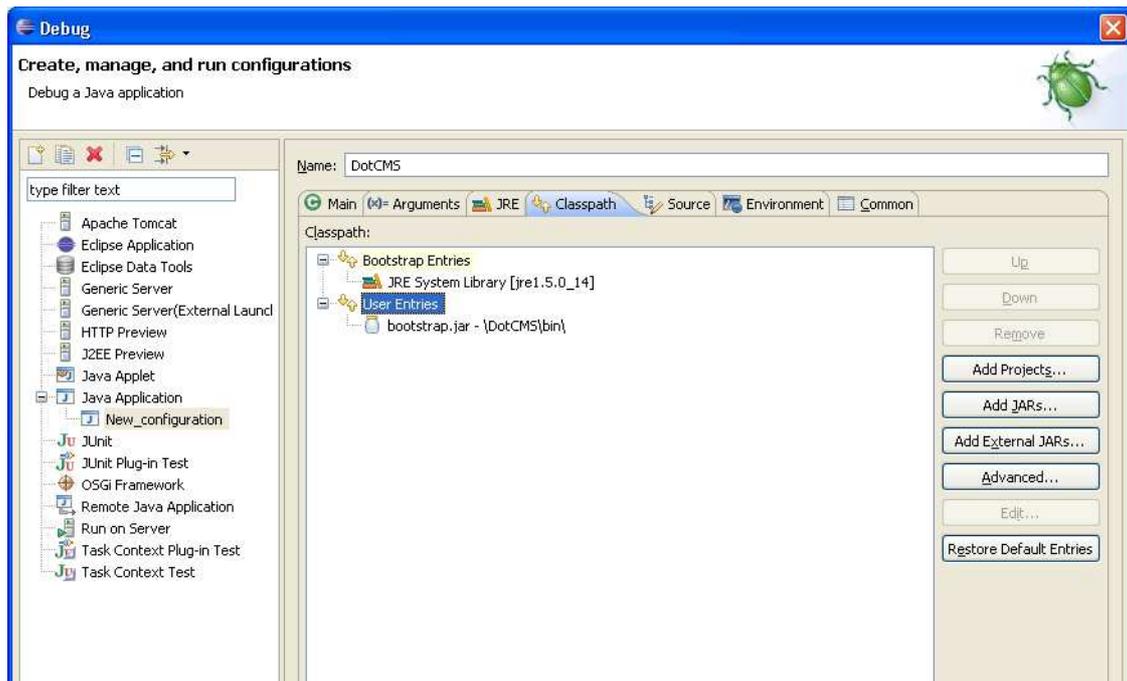


Click on the “Classpath” tab and then **remove** the default classpath under dotcms user entries



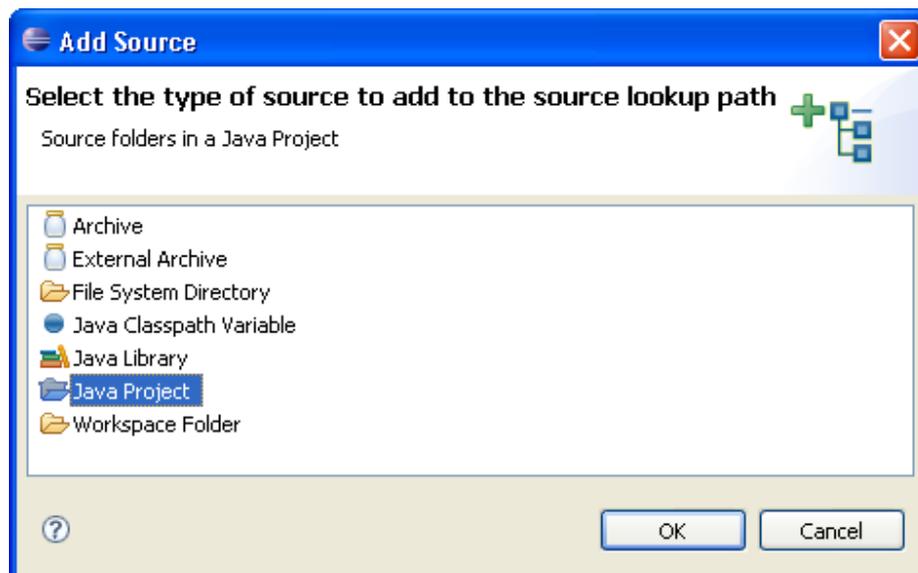
Click on Add JAR's and add the bootstrap .jar from bin



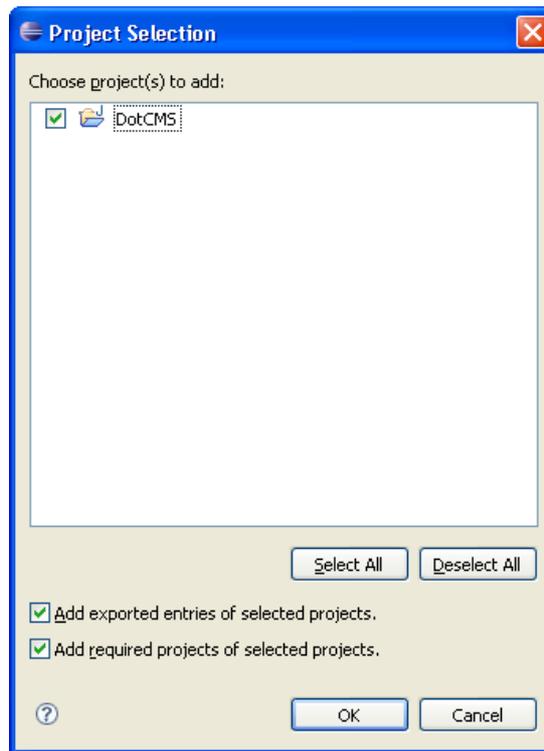


Click on the Source tab and then click on the “add” button.

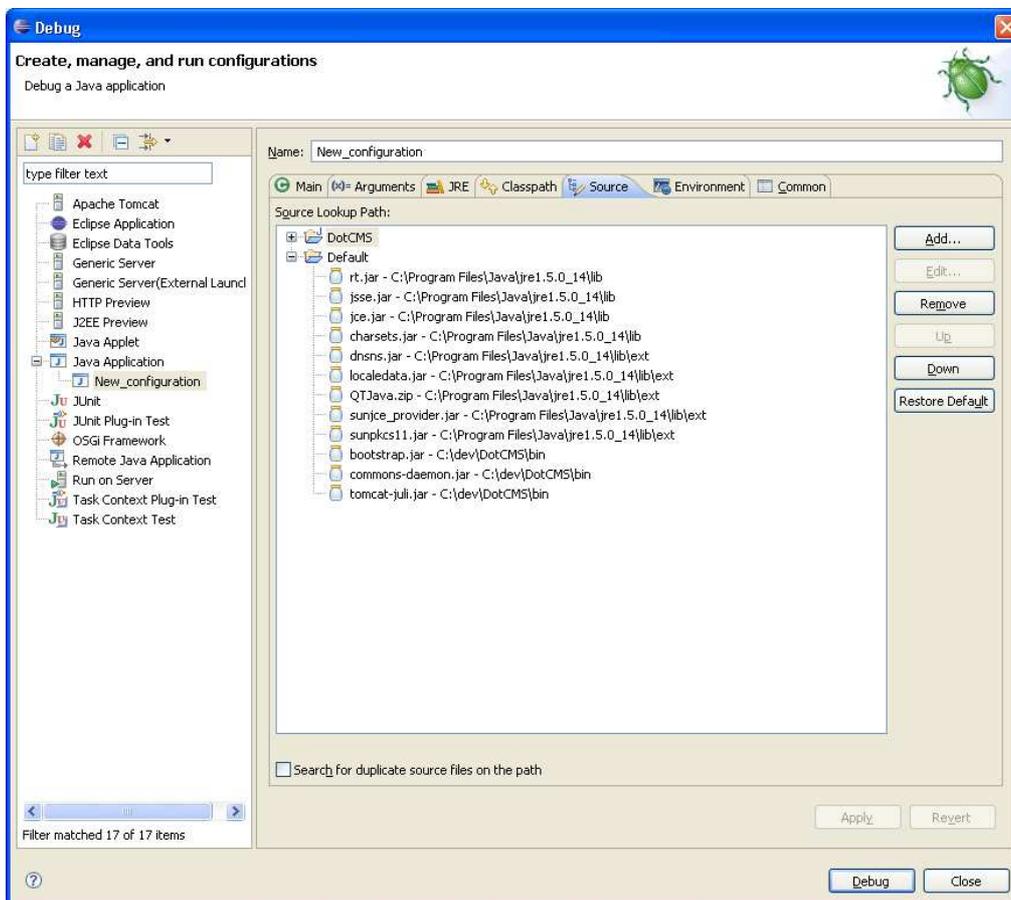
Choose the “Java Project” and click “OK”



Place a checkmark next to your dotcms project and make sure that both the “**add exported entries...**” and the “**Add required projects...**” checkboxes are selected as in the screenshot below.



Name the new Configuration and click “**Apply**”



Open the **conf/Catalina/localhost/ROOT.xml** file

By default, the POSTGRESQL portion of this file is uncommented for implementation.

<!-- *begins commenting*

--> *Ends commenting*

After you have made sure that the database type you wish to implement is **uncommented**, then pay special attention to configuring your **database name in the URL**, and then enter the **username**, and the **password** for the database you wish to implement. This info should correspond to the database that was set up using dotCMS install documentation provided in **step 5** at the beginning of these instructions.

(See example config for a postgres database below)

```
<!-- POSTGRESQL -->
<Resource name="jdbc/LiferayPool" auth="Container"
  type="javax.sql.DataSource" driverClassName="org.postgresql.Driver"
  url="jdbc:postgresql://127.0.0.1/dotCMS"
  username="databaseusername" password="databasepassword"
  maxActive="50" maxIdle="10" maxWait="-1" removeAbandoned="true"
  removeAbandonedTimeout="60" logAbandoned="true"/>
```