

ClubUML

CSYE7945 spring 2013

[Setup ClubUML on Local Machine]

[02 / 05 / 2013]

Revision: [1.0]

Revision History

Version	Date	Author	Description
0.1	01/20/2013	Richard Do	Initial Draft
0.2	01/26/2013	Richard Do	Added more Troubleshooting
0.3	02/01/2013	Dong Guo	TomCat 7 admin
0.4	02/01/2013	Richard Do	Update Format
0.5	02/03/2013	Minhee Song	GraphicVizv setup
1.0	02/05/2013	Dong Guo	Update Format

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Introduction:

This document is for setting up ClubUML on a local Windows machine. Please send any questions, comments, suggestions and errors to rdo524@gmail.com.

Prerequisite software:

1. Java JRE 1.7
2. GraphicViz (<http://www.graphviz.org/Download..php>)
3. MySQL Community Server (<http://dev.mysql.com/downloads/mysql/>)
4. MySQL Workbench (<http://dev.mysql.com/downloads/workbench/>)
5. TomCat 7 (<http://tomcat.apache.org/download-70.cgi>)
6. Tortoise SVN (<http://tortoisesvn.net/downloads.html>)
7. Eclipse IDE for Java EE Developers (<http://www.eclipse.org/downloads/>)

GraphicViz:

1. Install GraphicViz to '[C:\Graphviz](#)'. (The code will reference this directory when it attempts to generate UML class diagram images.)
2. After installing GraphicViz, copy 'cgraph.dll' to 'graph.dll' under C:\Graphviz\bin folder. Don't remove 'cgraph.dll' file. Both files need to create a png file.

Installing MySQL Community Server:

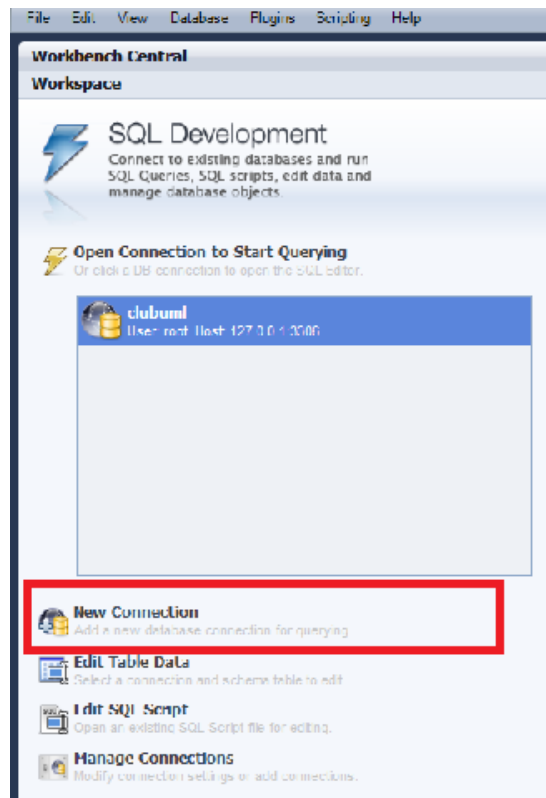
Once you install the Community Server, it'll take you through a MySQL Server Instance Configuration Wizard to setup a MySQL server. If this is the first time installing MySql Server then:

1. Use Standard Configuration.
2. Install As Windows Service
3. Set root password: 1234

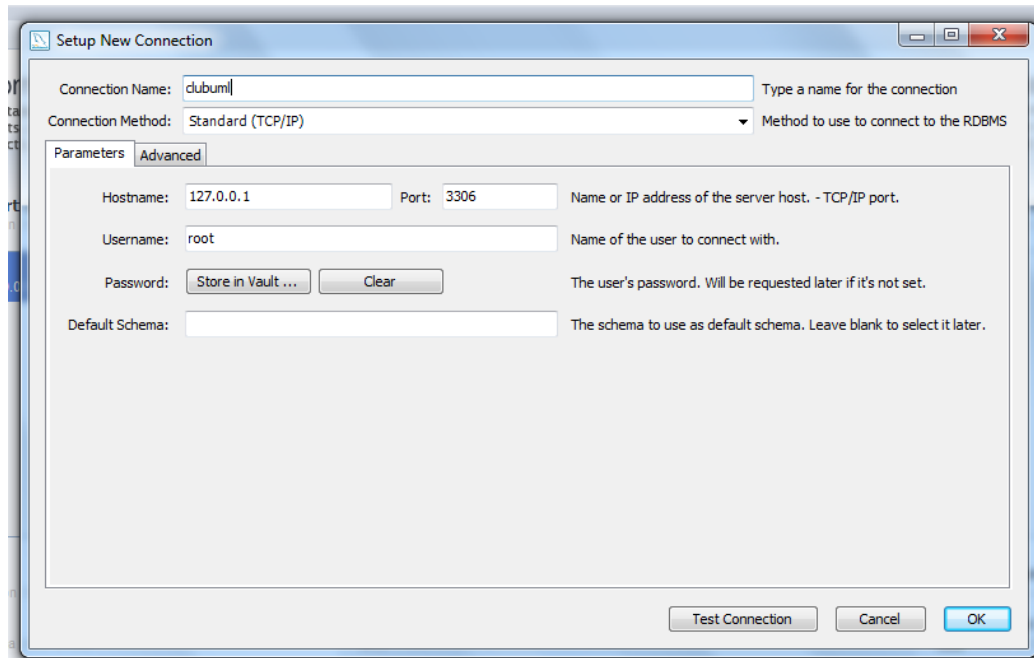
(Note: ClubUML source code for these instructions uses '1234' as the password as of 1/20/13. This can be updated later for better security. If you decide to use a different password, the password can be changed in DbManager.java file.)

Setup MySQL Workbench:

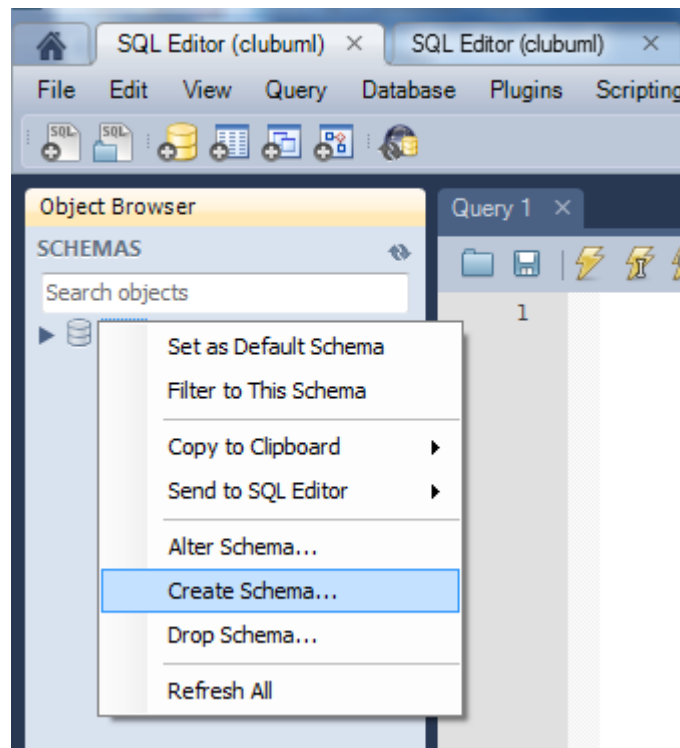
1. Install MySQL Workbench.
2. Launch MySQL workbench.
3. Under the “Open Connection to Start Querying” section, select 'New Connection' at the bottom.



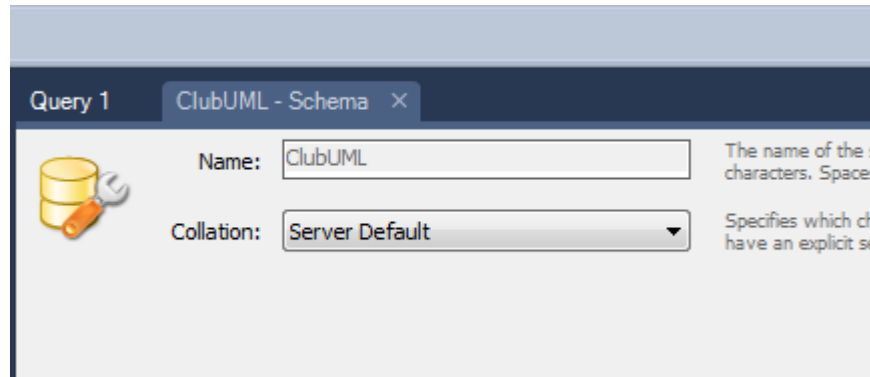
4. Give the new connection a name (ex: clubuml) and press **OK**. Enter '1234' when the password prompt appears. (This password was set in **Installing MySQL Community Server**)



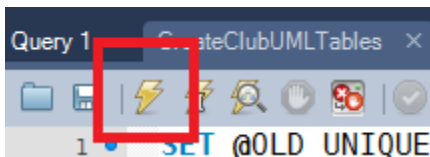
5. Open the new connection you just made. In the left pane (Object Browser), **right-click** any schema object and choose **Create Schema**.



6. Enter “ClubUML” as the Schema name and hit **OK**.



7. Go to **File->Open SQL Script** and open “CreateClubUMLTTables.sql”. This .sql file will accompany this document. Hit the execution button on the menu bar. (The lightning icon)



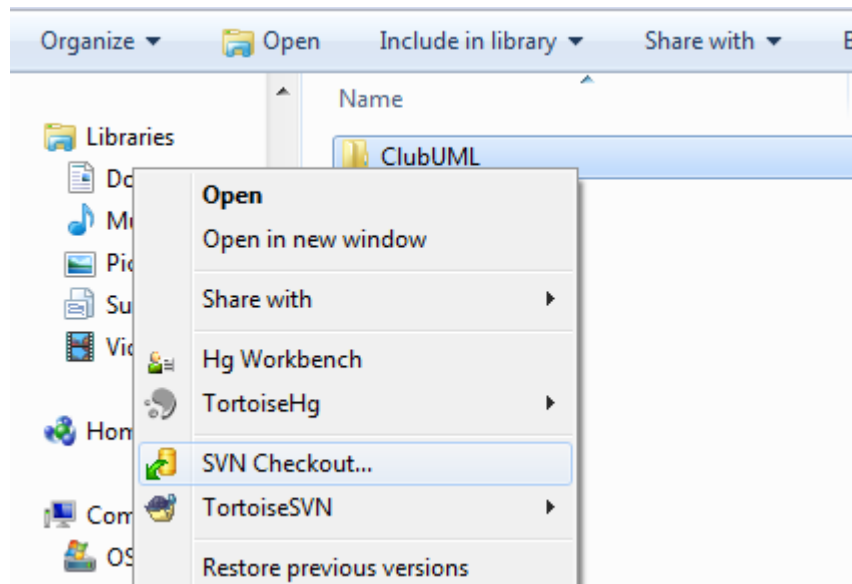
8. **Right-click** on ClubUML in the Object Browser and **Refresh All**. Tables should be available under ClubUML.

Troubleshooting MySQL Workbench:

When installing MySQL Workbench, if “MSVCR100.dll is missing” error appears when installing MySQL Workbench, you will need to install Microsoft Visual C++ 1020 Redistributable Package (x86/x64) (<http://www.microsoft.com/en-us/download/details.aspx?id=5555>)

Tortoise SVN:

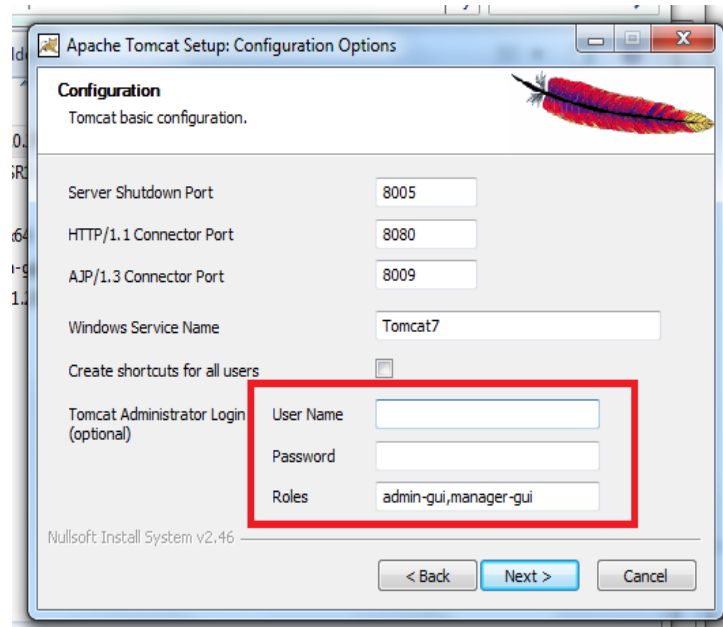
1. Install Tortoise SVN.
2. Open Windows Explorer and create a folder to store ClubUML repository.
3. **Right-Click** on the folder to store the repository->**SVN Checkout...**



4. Enter repository url <https://nuforge.coe.neu.edu/svn/clubuml2012> and hit **OK**. Files will be imported.

TomCat 7.0:

1. Download TomCat's [32-bit/64-bit Windows Service Installer](#).
2. Installing TomCat 7.0 should be straight forward. Use default settings and enter the optional Administer user name and password to avoid editing the user access XML file later.



3. If you didn't follow step 2, then you have to edit the user access XML file to set a "User Name" and "Password" to enter <http://localhost:8080/manager/html>

Open "Tomcat\conf\tomcat-users.xml". Add two lines into the file:

```
<role rolename="manager-gui"/>
<user username="XXX" password="XXX" roles="manager-gui"/>
```

```
<tomcat-users>
<!--
NOTE: By default, no user is included in the "manager-gui" role required
to operate the "/manager/html" web application. If you wish to use this app,
you must define such a user - the username and password are arbitrary.
-->
<!--
NOTE: The sample user and role entries below are wrapped in a comment
and thus are ignored when reading this file. Do not forget to remove
<!-- .. --> that surrounds them.
-->
<role rolename="manager-gui"/>
<user username="XXX" password="XXX" roles="manager-gui"/>
</tomcat-users>
```

Eclipse EE:

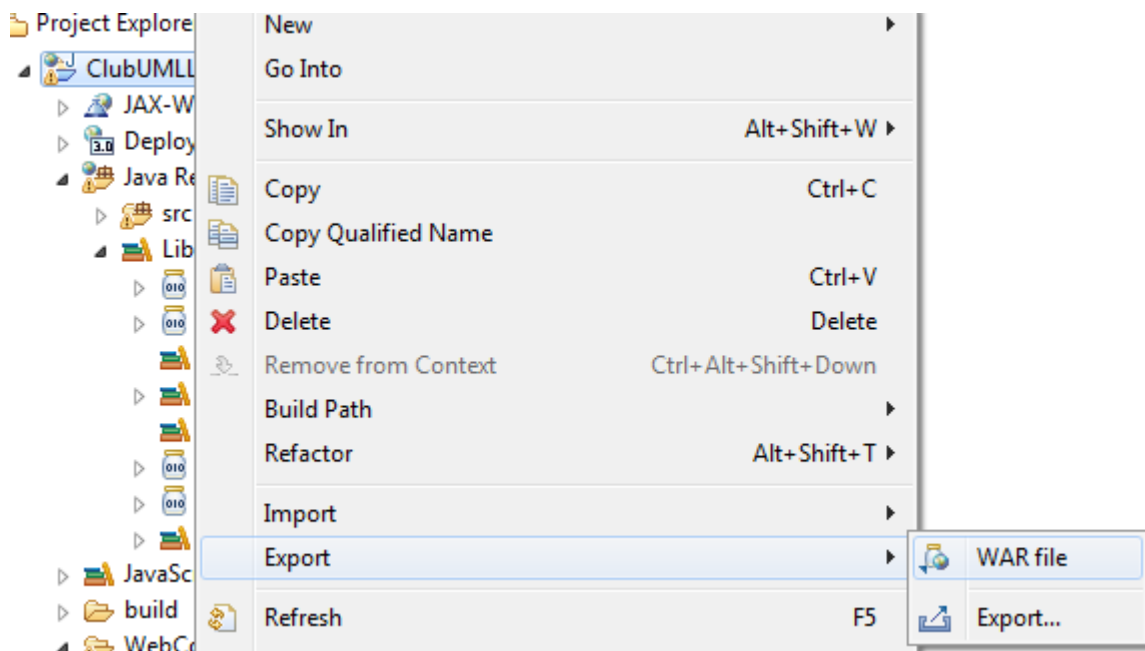
1. Open Eclipse EE and in the menu bar: **File->Import...**
2. Select **General->Existing Projects into Workspace...**
3. Navigate to your ClubUml trunk folder imported from SVN and hit **OK**
4. A list of projects will be displayed. Only select the ClubUMLLocalTest project and hit **OK**.
(Note: There is also an SVN tool that can be downloaded in Eclipse's Market that can perform this task of importing from the repository.)

Troubleshooting Eclipse EE:

If there are any issues, it is usually a library path problem. Right-click on *ClubUMLLocalTest* and go to properties. Go to Java Build Paths->Library and check if there are any issues. If there are issues, remap the libraries. Libraries can be found in *ClubUMLLocalTest/WebContent/lib*.

Create WAR file and launch web app:

1. The project will appear in Eclipse's Project Explorer,
2. **Right-click** *ClubUMLJan2013* folder->**Export->WAR file**



3. Set the destination of the WAR file to your *TomCat7/webapp* folder. (Default directory: C:\Program Files\Apache Software Foundation\Tomcat 7.0\webapps)
4. Open a browser with URL: <http://localhost:8080/manager/html>
5. You should see a row for */ClubUMLLocalTest* with running = true.
6. Click on */ClubUMLLocalTest* and it'll launch you into the web program.
7. Explore!

(Note: The project can also run in Eclipse using the “Run on Server” option, but I had an issue with file paths writing and reading in different directories.)

Troubleshooting launch web app

If <http://localhost:8080/manager/html> appears broken, make sure TomCat7 server is running. (Default directory: C:\Program Files\Apache Software Foundation\Tomcat 7.0\bin\Tomcat7.exe)

If error **HTTP Status 500 – controller/RegisterServlet : Unsupported major.minor version 51.0 (unable to load class controller...)** appears when attempting to register a new user or log in when running application, one solution is to uninstall and reinstall all Java versions. ([link](#))

Web browser compatibility issue with Internet Explorer 7. Recommended browsers are IE 9+, Fire Fox, and Chrome.