Software Installs

Before you begin, make sure that:
1. Your Windows service is current.
2. You have an archive tool like Winzip (Win XP builtin is very slow)
3. You have administrative rights on your system.

Browsers

Internet Explorer 6.0 -
Already on your workstation with Windows XP.

Netscape 7.2
http://ftp.netscape.com/pub/netscape7/english/7.2/windows/win32/NSSetup.exe

Mozilla 1.7
http://ftp.mozilla.org/pub/mozilla.org/mozilla/releases/mozilla1.7.3/mozilla-win32-1.7.3-installer.exe

Filrefox 1.0
http://download.mozilla.org/?product=firefox&os=win&lang=en-US

Java SDK (not JRE)
Found in Workbench Folder
1. Run the EXE: j2sdk-1_4_2_05-windows-i586-p.exe

2. Unzip into the j2sdk folder using folder names:
   j2sdk-1_4_2-doc.zip

Tomcat
1. Extract jakarta-tomcat-5.0.29.zip into your C: drive using folder names which will create a folder with jakarta-tomcat-5.0.29 as the top level folder.

2. Add the datasource to the server.xml file:

   • Edit the file Datasource.server.xml located in the Workbench directory using Wordpad. This file is not complete xml and will not display in IE. Select the contents of this file and copy to the clipboard. Close this file.

   • Using Wordpad, open the file C:\jakarta-tomcat-5.0.29\conf\server.xml file. After the last ResourceParams element in the GlobalNamingResource area of the file, paste the contents of the clipboard. Exit and save the changes to this file.

3. Edit the file C:\jakarta-tomcat-5.0.29\conf\tomcat-users.xml and add the following lines after the tag <tomcat-users>:

```
<role rolename="manager"/>
<role rolename="admin"/>
```

Then add a line like:

```
<user name="yourname" password="yourpassword"
      roles="admin,manager,role1,tomcat"/>
```

This gives you permission to use the administrative applications in Tomcat.

4. Also edit the file: C:\jakarta-tomcat-5.0.29\conf\web.xml and locate the following snippet:

```
<servlet-mapping>
    <servlet-name>jsp</servlet-name>
    <url-pattern>*.jsp</url-pattern>
</servlet-mapping>
```

Insert the following:

```
<servlet-mapping>
    <servlet-name>jsp</servlet-name>
    <url-pattern>*.jspf</url-pattern>
</servlet-mapping>
```

This definition changes *.jsp to *.jspf so that you will wind up with two sets of servlet mappings that look exactly alike except for the "f" on the end of one of the URL patterns.

This allows jsp fragments (jspf) to be interpreted by the jsp servlet so that parts of jsp files can be compiled by the jsp compiler.

JDBC Drivers Install

Extract jconn2.jar from the jconnect55.zip file into C:\jakarta-tomcat-5.0.29\common\lib so that there is a C:\jakarta-tomcat-5.0.29\common\lib\jconn2.jar file in the library.

(Do not "extract using folder names" in Winzip)

Do the same thing for every JDBC driver that you are installing. This allows Tomcat to use datasources (set up for Sybase in the Tomcat setup) for any of the databases that you will be testing for.

2/11/2005

Eclipse IDE

Unzip eclipse-SDK-3.0.1-win32.zip (from the Workbench folder) into your C: drive using folder names.

This will create a C:\eclipse folder (and some sub-folders). In that folder is an eclipse.exe file which needs a shortcut (on the desktop or in a start folder). Start that program – Eclipse will come up. Shut it down.

MyEclipse J2EE IDE

Run EnterpriseWorkbenchInstaller_030803.exe from the Workbench.

Eclipse must already be installed. When it asks for you Eclipse location, find it at C:\eclipse (since that is where you put it in the previous section. It will also ask where to put MyEclipse. You should use C:\MyEclipse. Be careful, these are 2 different questions – don't answer them the same. This will put a little black "My" icon on your desktop. This will be the normal way to start Eclipse.

When Eclipse starts, there are some chores to do:
- Set up your license key
    - Go to Window->Preferences->MyEclipse->Subscription
    - Enter Subscriber Id: UCOP.EDU-UL5-EX2005-11-22
    - Enter Subscription Code: HLR7ZL-752550-506677-6526943108
- Add a full JDK java for eclipse
    - Go to Window->Preferences->Java->Installed JREs
    - Click Add and leave Standard VM selected
    - Enter "Full JDK" as the JRE Name
    - Enter (or select from the browse) "C:\j2sdk1.4.2_05" from the SDK install above
    - Enter (or select from the browse "file:/C:/j2sdk1.4.2_05/docs/api/" for the Javadoc URL
    - Check use default system libraries checkbox
- Configure Drivers for the databases you are using
    - Go to Window->Preferences->MyEclipse->Database Explorer->Drivers
    - Choose Edit for Sybase Adaptive Server Enterprise
    - Leave the sample URL as is
    - Choose the Extra Class Path tab
    - Choose New and browse to the location where you installed drivers for Tomcat C:\jakarta-tomcat-5.0.29\common\lib\jconn2.jar and Then click apply
    - Repeat for other drivers as needed.
- Configure MyEclipse to not use JBoss3
    - Go to Window->Preferences->MyEclipse->Application Servers->JBoss3
    - Choose the disable radio button
- Configure MyEclipse to use Tomcat 5
    - Go to Window->Preferences->MyEclipse->Application Servers->Tomcat5
    - Choose the enable radio button
    - Browse for the Tomcat install directory C:\ jakarta-tomcat-5.0.29
    - The rest of the directories will be filled in automatically
    - Expand the Tomcat5 twistie and select JDK
    - Choose Full JDK from the dropdowns presented.

Test Project Import

CVS Setup

1. Make Sure you have a CVS account setup on taopi.ucop.edu (You need a user and a password
2. In Eclipse (or MyEclipse), go to Window->Open Perspective->CVS Repository Exploring
3. Right-click in the CVS Repositories View (Left side by default).
4. From the popup, choose New->Repository Location
5. From the dialog that appears:
   a. Enter the host name "taopi.ucop.edu" for Host
   b. Enter /cvs for Repository path.
   c. Select "pserver" for the Connection type.
   d. Enter your user (CVS Account) and password in the provided filed
   e. Leave Use Default Port as the selected radio
   f. OPTIONALLY check the Save Password checkbox (a security message will popup warning you against doing this.
   g. Press the Apply button and the OK button (in order).
   h. Go to Window->Preferences->Workbench->Label Decorations
   i. Check the CVS Checkbox (may already be checked)
   j. Go to Window->Preferences->Team->File Content and add extension jspf (jsp fragment) with content ASCII (may already be present)

J2EETest Project Import

1. From the CVS Repositories, expand "HEAD" and look for the J2EETest.
2. Right-click on the project Name ("J2EETest") and choose "Check Out" (this will take a long time due to the number of jar files that are needed to run the project.
3. Close the Perspective (until the next time you need to import a project – Synchronizing is done later.
4. Go to a Java Perspective or a MyEclipse Perspective.
5. You will see the project listed with a ">" symbol and the name of your CVS server.
6. Select your project, right-click and choose Replace with Latest from HEAD. The ">" symbol will disappear. The ">" symbol indicates that there is a current difference between the Repository and your copy of the Project. Import causes a difference that you do not want to keep.
7. Expand the project – you will see a java source folder with some package Folders under it and some files. Package folders are a java construct that is recognized by Eclipse. There is also a WebRoot folder with some other folders inside it. One of these folders is WEB-INF, which contains important things needed by J2EE (especially web.xml), Struts, Tiles, JSTL (Standard Tag Library)

Deploy and Configure the Test Project

Deploy the Test Project

1. Right-click on the project name
2. Select MyEclipse->Add and Remove Project Deployments
3. You will see your project listed in a dropdown
4. Click the Add Button and Choose "Tomcat 5" from the dropdown
5. Make sure Deploy type radio is set to Exploded Archive
6. You will see that deployment has chosen "C:\jakarta-tomcat-5.0.29\webapps\J2EETest" as the Deploy Location
7. Click finish.
8. The application is deployed

Configure the Test Project

1. Copy the J2EETest.xml file from "Z:\Workbench" to "C:\jakarta-tomcat-5.0.29\conf\Catalina\localhost" This will connect the J2EETest app to the Datasource that was created in Tomcat a long time ago.

Test Project Tests

Batch Tests

1. Expand the Project
2. Under "src", expand the Package edu.ucop.ers.erstest
3. Right-click HibernateCommandTest.java from the package and choose Run->JUnit Test (not Junit Plugin Test)
4. Somewhere, you will see a Junit view with, hopefully a Green Bar across the top of the view. You should explore this view noticing the Failures and Hierarchy tabs and the exploded list of tests.

Online Tests

1. Start the Tomcat Server from Eclipse
2. Find the AppServer Run Icon (A face with a running man)
3. Click the down arrow to the right of the running man
4. Choose "Tomcat 5" from the list of enabled App Servers (you have probably only enabled Tomcat 5.
5. Select start. You should see a Console view that shows the console output for the Tomcat startup including Things for Hibernate and J2EETest application.
6. Bring up a browser and specify http://localhost:8080/J2EETest
7. You should see a blank page with a link to Test.
8. Click on the link and you should see a test page that has data from the Test Database.