WA1677 J2EE Application Development with Spring and Hibernate

Classroom Setup Guide

Web Age Solutions Inc.
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Classroom Requirements

Part 1 - Minimum Hardware Requirements

- 1000 Mhz Pentium IV
- 512 MB RAM minimum, 1 GB recommended
- 8 GB in the hard disk
- Network connection
- Internet connection

Part 2 - Minimum Software Requirements

- Microsoft Windows 2000, Windows XP sp2
- Internet Explorer 6.0
- WinZip 8.0
- JDK 6.0 Update 10*
- Eclipse JEE Ganymede SR1 *
- JBoss Application Server 4.2.3 GA JDK6*

* - indicates software provided as part of the courseware.
Part 3 - Software Provided

You will receive one USB memory stick containing the following file:

- WA1677.ZIP

All other software listed under Minimum Software Requirements is either commercially licensed software that you must provide or software that is freely available off the Internet.
Part 4 - Important Ghosting or Imaging Information

The software for this course can be ghosted.
Software Installation

Part 1 - Preparation

__1. From the USB memory stick, extract the **WA1677.ZIP** file to C:\

__2. Review that the following folders were created:

- C:\LabFiles
- C:\Software
- C:\Software\eclipse
- C:\Software\jboss-4.2.3.GA

__3. Review that the following file was created:

- C:\Software\jdk-6u10-windows-i586-p.exe
Part 2 - Installing JDK 6 Update 10

1. Make sure there is no previous Java version already installed on the system. You can check this by using the Windows “Add/Remove Programs” utility. For the best compatibility with the labs it is suggested that all previous versions of Java be uninstalled before proceeding with these instructions. If this is an issue, please contact the setup support person for the course.

2. From the C:\Software directory run the following file:

   jdk-6u10-windows-i586-p.exe

3. After a few moments the license agreement will appear. Press the Accept button to move to the next step.
4. Leave the defaults for installation location and options, and press the Next button.

The installation will begin installing files.

5. The Destination Folder will appear, leave the default folder and click Next.

Wait until the software is completely installed.
6. Click **Finish**.

7. Close any browser that appears asking to register the JDK software.
Set the Environment variables.

1. From Start > Control Panel, double click on System.

2. Select the Advanced tab.

3. Click the Environment Variables button.

4. From the System Variables list, select Path and click Edit.

5. At the beginning of the line enter the following:

```
C:\Program Files\Java\jdk1.6.0_10\bin;
```

6. Click OK.

7. Under the System Variables list, click the New button.

8. Enter JAVA_HOME as Variable name.

9. As Variable value enter the following:

```
C:\Program Files\Java\jdk1.6.0_10
```

10. Click OK to create the variable.
11. Click **OK** to close the *Environment Variables* window.

12. Click **OK** to close the *System Properties* window.

13. Restart the computer.

**Verification of JDK 6 Update 10**

1. Open a Windows command prompt. You can do this by selecting 'Start -> Run', entering 'cmd', and then pressing the **OK** button.

2. Enter the following command:

   `java -version`

   Make sure you see the response shown below.

   ```
   C:\Documents and Settings\wasadmin>java -version
   java version "1.6.0_10"
   Java(TM) SE Runtime Environment (build 1.6.0_10-b33)
   Java HotSpot(TM) Client VM (build 11.0-b15, mixed mode, sharing)
   ```

3. Enter the following command:

   `javac`

   Verify that you get the options to run the Java compiler:

   ```
   C:\Documents and Settings\wasadmin>javac
   Usage: javac [options] <source files>
   where possible options include:
   -g Generate all debugging info
   -g:none Generate no debugging info
   -g:lines,vars,source Generate only some debugging info
   -nowarn Generate no warnings
   -verbose Output messages about what the compiler is doing
   -deprecation Output source locations where deprecated APIs are used
   -classpath <path> Specify where to find user class files and annotations
   on processors
   -cp <path> Specify where to find user class files and annotations
   on processors
   -sourcepath <path> Specify where to find input source files
   -bootclasspath <path> Override location of bootstrap class files
   -extdirs <dirs> Override location of installed extensions
   -endorseddirs <dirs> Override location of endorsed standards path
   ```

4. Close the command prompt window and any extra windows that are open.

JDK 6 Update 10 is now installed!
Part 3 - Verification of Eclipse JEE Ganymede SR1

1. Run C:\Software\eclipse\eclipse.exe

Eclipse Ganymede will start.

2. A Workspace Launcher dialog will appear. Change the workspace directory to:

c:\workspace

3. Click OK.

Eclipse will open showing the Welcome page.
__4. Close the Eclipse welcome page by clicking the X at top left.

__5. From the menu, select File > Exit to close Eclipse.

Eclipse JEE Ganymede is working fine.
Part 4 - Verification of JBoss Application Server 4.2.3 GA JDK6

__1. Open a command prompt window.

__2. Change to the following folder:

C:\Software\jboss-4.2.3.GA\bin

__3. Enter the command:

run.bat

__4. JBoss will start after some second the Started message will appear.

__5. Open another command prompt window.

__6. Change to the following folder:

C:\Software\jboss-4.2.3.GA\bin

__7. Enter the command:
shutdown -S

JBoss will stop

8. Press any key in the command prompt window.

9. Switch to the first command prompt window. JBoss will shutdown. Click any key there too.

10. Close all the commands prompts open.

JBoss Application Server 4.2.3 GA JDK6 is working fine.