

WA1618 Introduction to JavaServer Faces (JSF) 1.2 Using Eclipse

Classroom Setup Guide

Web Age Solutions Inc.

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Classroom Requirements

Part 1 - Minimum Hardware Requirements

- 1 Ghz Pentium IV
- 1 GB RAM
- 8 GB Disk space
- Connection to the Internet. Note, some of the lab exercises may not work without a working Internet connection.
- USB port

Part 2 - Minimum Software Requirements

- Microsoft Windows 2000 SP4 or Windows XP
- Internet Explorer 6.0
- WinZip 8.0 or higher
- JDK 6.0 Update 10*
- Apache Tomcat 6*
- WTP v3.0.3*
- Mojarra*

* - indicates software provided as part of the courseware.

Part 3 - Software Provided

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

- WA1618.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 **WA1618** file to C:\

__2. Review that the following folders were created:

- **C:\apache-tomcat-6.0.18**
- **C:\LabFiles**
- **C:\mojarra-1.2_10-b01-FCS**
- **C:\Software**

__3. Review that the following files were created:

- **C:\Software\jdk-6u10-windows-i586-p.exe**
- **C:\Software\20080923-0620_eclipse-jee-ganymede-SR1-RC3-win32.win32.x86.zip**

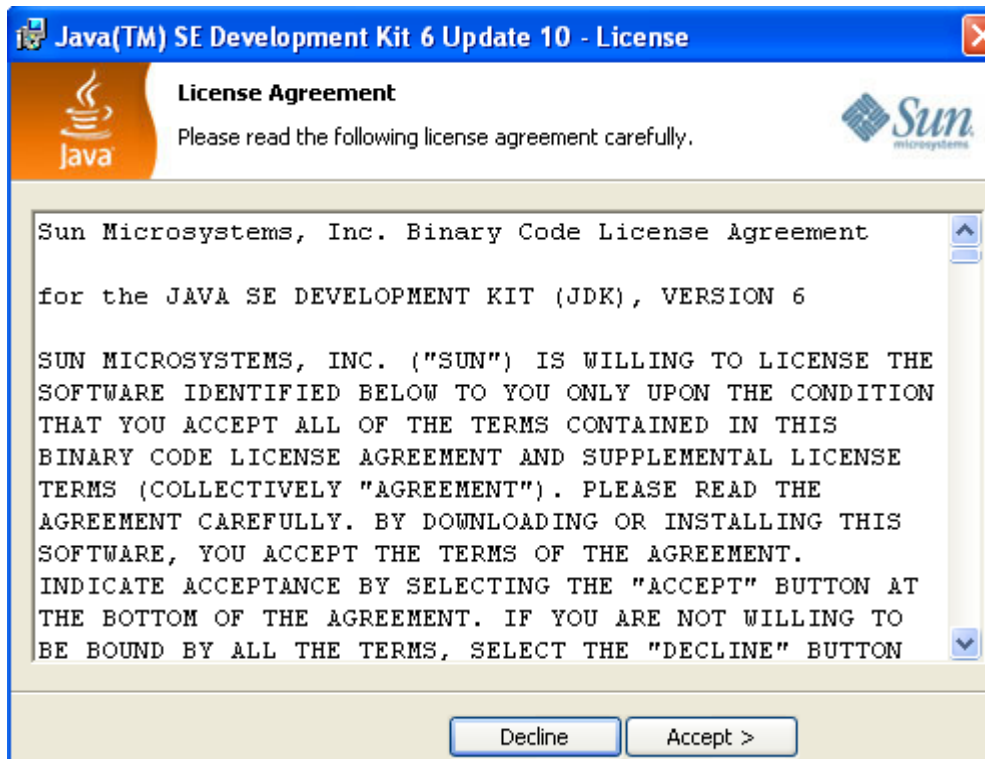
Part 2 - Installing JDK 6 Update 10

__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.

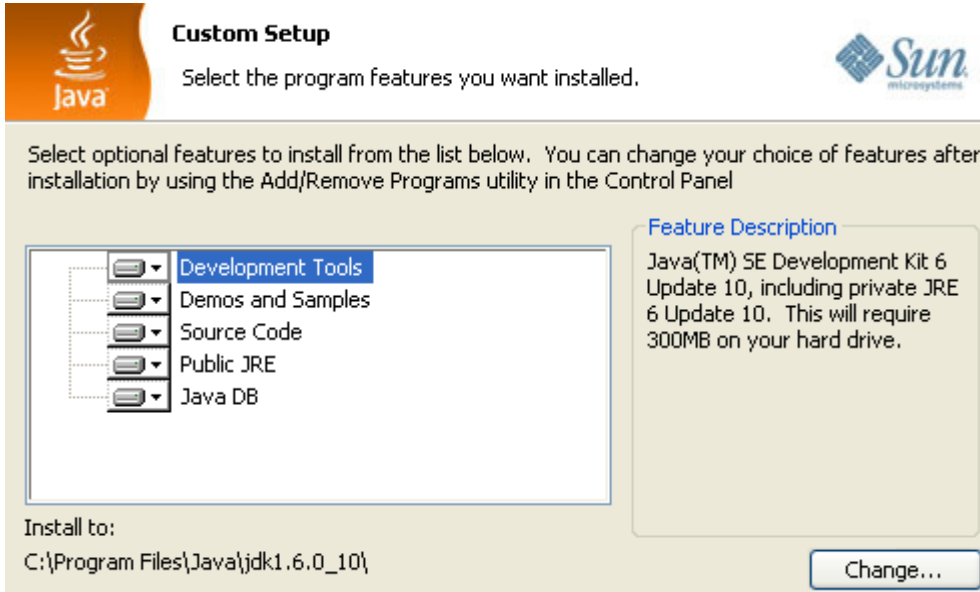
__2. From the **C:\Software** directory run the following file:

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

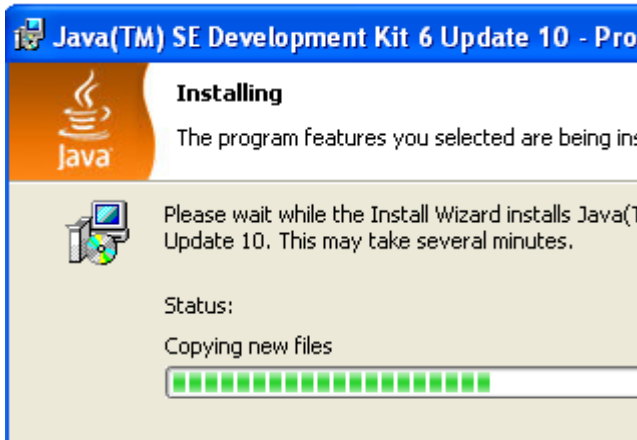
__3. After a few moments the license agreement will appear. Press the **Accept** button to move to the next step.



__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**.



6. Wait until the software is installed.

7. Click **Finish**.



__8. Close any browser that appears asking to register the JDK software.

Set the Environment variables.

__9. From **Start > Control Panel**, double click on **System**.

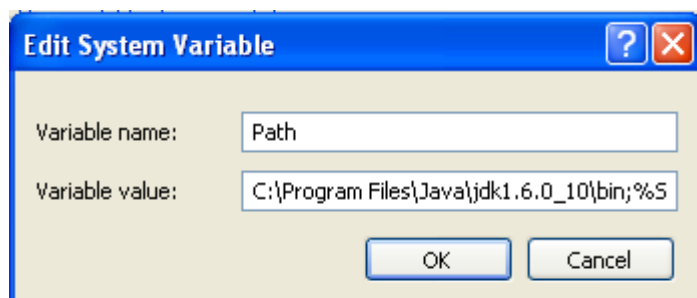
__10. Select the **Advanced** tab.

__11. Click the **Environment Variables** button.

__12. From the *System Variables* list, select **Path** and click **Edit**.

__13. At the beginning of the line enter the following:

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



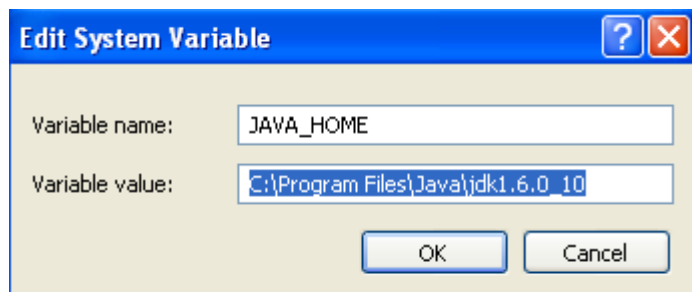
__14. Click **OK**.

__15. Under the System Variables list, click the **New** button.

__16. Enter **JAVA_HOME** as Variable name.

__17. As Variable value enter the following:

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



__18. Click **OK** to create the variable.

__19. Click **OK** to close the *Environment Variables* window.

__20. Click **OK** to close the *System Properties* window.

__21. Restart the computer.

Verification of JDK 6 Update 10

__22. Open a Windows command prompt. You can do this by selecting '**Start -> Run**', entering '**cmd**', and then pressing the **OK** button.

__23. 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)
```

__24. 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 processors
  -cp <path>        Specify where to find user class files and annotations 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
```

__25. Close the command prompt window and any extra windows that are open.

JDK 6 Update 10 is installed!

Part 3 - Verification of Apache Tomcat 6

__1. Open a command prompt window.

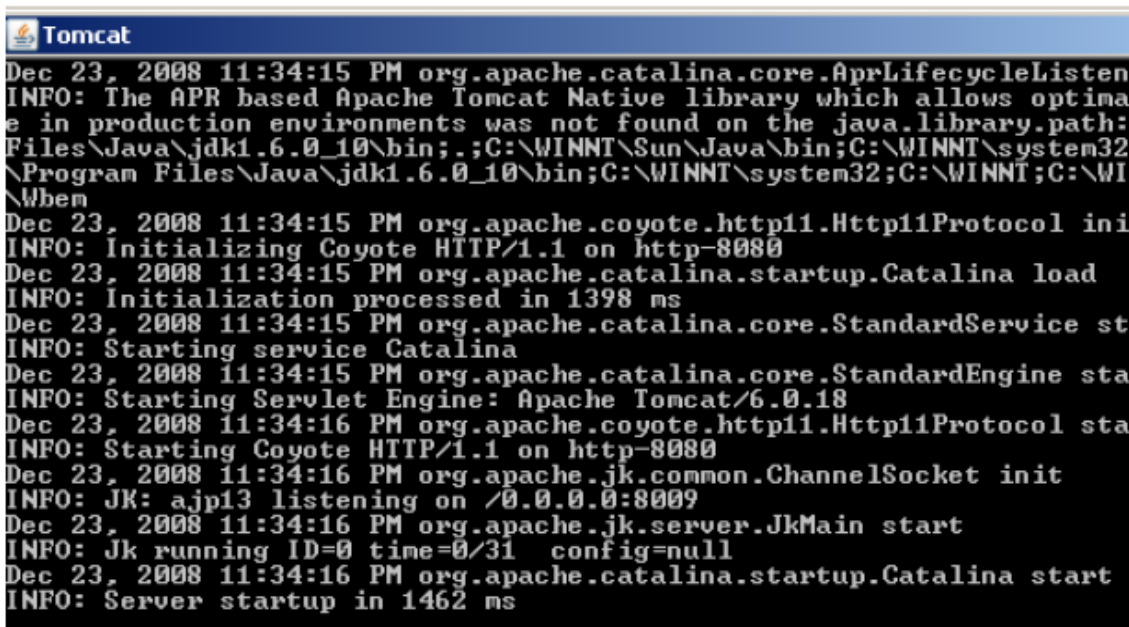
__2. Change to the following directory:

C:\apache-tomcat-6.0.18\bin

__3. Run the command:

startup.bat

__4. Apache will start.



```
Tomcat
Dec 23, 2008 11:34:15 PM org.apache.catalina.core.AprLifecycleListen
INFO: The APR based Apache Tomcat Native library which allows optima
e in production environments was not found on the java.library.path:
Files\Java\jdk1.6.0_10\bin;. ;C:\WINNT\Sun\Java\bin;C:\WINNT\system32
\Program Files\Java\jdk1.6.0_10\bin;C:\WINNT\system32;C:\WINNT;C:\WI
\Wbem
Dec 23, 2008 11:34:15 PM org.apache.coyote.http11.Http11Protocol ini
INFO: Initializing Coyote HTTP/1.1 on http-8080
Dec 23, 2008 11:34:15 PM org.apache.catalina.startup.Catalina load
INFO: Initialization processed in 1398 ms
Dec 23, 2008 11:34:15 PM org.apache.catalina.core.StandardService st
INFO: Starting service Catalina
Dec 23, 2008 11:34:15 PM org.apache.catalina.core.StandardEngine sta
INFO: Starting Servlet Engine: Apache Tomcat/6.0.18
Dec 23, 2008 11:34:16 PM org.apache.coyote.http11.Http11Protocol sta
INFO: Starting Coyote HTTP/1.1 on http-8080
Dec 23, 2008 11:34:16 PM org.apache.jk.common.ChannelSocket init
INFO: JK: ajp13 listening on /0.0.0.0:8009
Dec 23, 2008 11:34:16 PM org.apache.jk.server.JkMain start
INFO: Jk running ID=0 time=0/31 config=null
Dec 23, 2008 11:34:16 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in 1462 ms
```

__5. Open another command prompt window.

__6. Change to the following directory:

C:\apache-tomcat-6.0.18\bin

__7. Run the command:

shutdown.bat

__8. Apache will stop.

__9. Close All command prompts.

Part 4 - Installation of Eclipse JEE Ganymede 3.0.3

__1. From **C:\Software** extract

20080923-0620_eclipse-jee-ganymede-SR1-RC3-win32.win32.x86.zip

directly under **C:**

The **c:\eclipse** folder will be created.

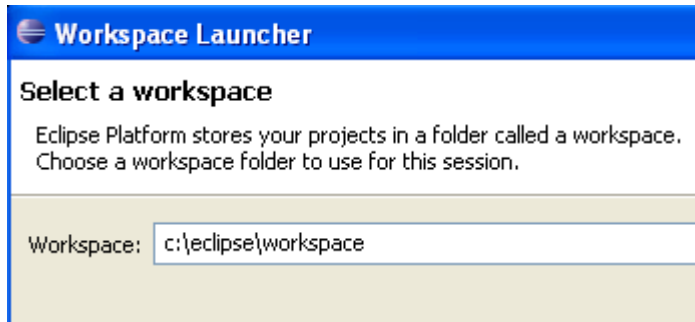
__2. Run **c:\eclipse\eclipse.exe**

Eclipse Ganymede 3.0.3 will start.



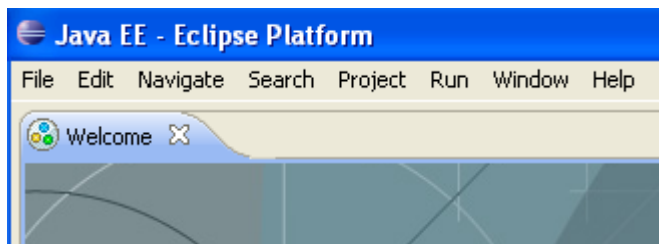
__3. A Workspace Launcher dialog will appear. Change the workspace directory to:

c:\eclipse\workspace



__4. Click **OK**.

Eclipse will open showing the Welcome page.



__5. Close the *Eclipse welcome* page by clicking the X at top left.

__6. From the menu, select **File > Exit** to close Eclipse.

Eclipse Ganymede 3.0.3 is working fine.

Congratulations. The installation of WA1618 Introduction to JavaServer Faces (JSF) 1.2 Using Eclipse has been completed.