

## Appendix

### The Stand Alone Server

A free stand alone server can be downloaded from the Apache open software project. It is Tomcat 4.0.4, and it is available from <http://jakarta.apache.org/>. (It is also in the Documents folder of the website, <http://csis.pace.edu/~wolf/>. Directions for installation can be found at <http://archive.coreservlets.com/Using-Tomcat.html>. Make sure that you download the regular version, not the LE version. The latter requires an XML parser and doesn't work without it.

The directions at coreservlets also tell you which directories to use for your html files and Java servlets. The html files should be placed in the webapps/ROOT subfolder of the Apache folder. The servlets class files belong in the webapps/ROOT/WEB-INF/classes folder. If you are reading from a file, the file goes into that folder also.

### Configuring JCreator

The main class of a servlet extends the HttpServlet class. This class is contained in a file called *servlet.jar* that is available for downloading from SUN. To make things easier for you, it can also be found in the Documents directory of the website found at <http://csis.pace.edu/~wolf/>. You can download it from there and store it with the other .jar files in the *lib* subdirectory of the jdk folder.

You also have to tell the IDE you use to look there for this file. In JCreator, first click on **Configure**, then on **Options...**, and then on **Profiles**. You should see the version of JDK that you are using listed there. Click on it and then on **Edit**. When you see the next window, click on **Add** and then **Add Package...** Browse until you find the lib subdirectory and then click on *servlet.jar*. This will tell the compiler where to find the HttpServlet classes needed to compile a servlet.

### Registering an Access Database

To connect to the database using a Java servlet, you must first register the database with the operating system. In Windows 98 this is done by clicking on **Settings/Control Panel/Data Sources (ODBC)**. In Windows 2000 or XP, you will find this same file in **Settings/Control Panel/Administrative Tools**. Select **Add/Microsoft Access Driver (\*.mdb)**, and from there **Browse** to find the location of your database.

The connection is done with a jdbc-odbc bridge. Jdbc stands for Java database connectivity API (application programming interface), while the 'O' in Odbc stands for Open. Odbc is a protocol from Microsoft that is based on the X/Open SQL specification.

### Setting localhost

In Windows 2000 or XP, you can set localhost as an Environment Variable. Go into **Settings/Control Panel/System/Advanced/System Variables**. Choose **New** and then enter localhost as the Variable name and 127.0.0.1 as the Variable value. In Windows 98, use Windows Explorer to find Autoexec.bat. It is in the C:\System folder. Edit it and add the line SET localhost=127.0.0.1. When you next boot up your computer, this file will be executed and will set the environment variable.

### Sources of Information

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