Framework used: JAX-RS, Jersey, JNI (Part of Java SDK/JDK)

Versions used:

Tomcat = 6  
IDE = Eclipse (Mars)

JRE = 1.8 (32 bit)

JDK = 1.8 (32 bit)

dll = (32 bit)

**Eclipse configurations:**

Add Tomcat to Eclipse

1. Open **Window -> Preferences -> Server -> Installed Runtimes**to create a Tomcat installed runtime.
2. Click on **Add...** to open the **New Server Runtime** dialog, then select your runtime under **Apache**

Add libraries to Eclipse

The jar files for the frameworks can be added by Project => Properties => Java Build Path => Libraries => Add JAR ...

In the VM Options field, add the following option, based on your library’s path:  
java -Djava.library.path=<path\_to\_dll>

Switching to the 32 bit JRE when executing works for me. Below are the steps on how to do this exactly in Eclipse:

* Go to *Run*
* Go to *Run configurations*
* Under the *JRE* tab you can switch to the 32 bit JRE

Also environment variables should be set to correct path. (Program Files (x86) for 32 bit)

Visual Studio Configurations

Include directories in VS: ..\Java\jdk1.8.0\_111\include\win32 and ..\Java\jdk1.8.0\_111\include\ for JNI and also import the java header file by including the project folder and adding the file to the project.

**Used this tutorial for JNI.(up until page 6)**

<http://www.cs.umanitoba.ca/~eclipse/8-JNI.pdf>

Note:

Javah has to be called in the build/classes folder with the full package name, for example: com.webservice.<filename>

C code command line in C project folder(extension cpp instead of c if c++ is used)

Also use g++ as compiler for c++ code.

put dll file in the project folder of the webservice

Git repository: <https://github.com/JackKLM/webservice>

Has 2 folders, 1 Java project, and 1 c++ project.

The c++ project is used to generate the dll file. The Java project contains the web service which can call the dll file.

Note:

The Java project can be imported by going to File 🡪 Import 🡪 General 🡪 Existing Projects in Workspace