**Project 4- Documentation**

This assignment allows users to run the Translate.jar executable to pick an English to translate into one of 3 possible languages**: Italian, French, and Spanish**.

The list of translatable words is as follows:

\* "pig" \* "eats"

\* "dog" \* "cat"

\* "mouse" \* "house"

\* "runs" \* "jumps"

\* "flies" \* "digs"

\* "he" \* "she"

\* "it" \* "we"

\* "them"

**Jar Files**

This assignment is comprised of 5 executable jar files which must be in the same folder.

\* **Dictionary**.**jar** – This file can be executed from the command line by typing in

java –jar Dictionary.jar

However, now that Dictionary has been converted to the socket/thread model of input, no translations can actually be translated from the command line.

\* **Translator.jar** – This file can be double-clicked on to run, as it has a GUI, or it can be run from the command line by typing in

java –jar Translator.jar

**\*FrenchLoader.jar** – Jar this is called when the service stub number corresponding to the jar is picked by the client (Translator) and sent to the server (Dictionary). Can be loaded by double-clicking, but won’t be functional without a connection to the server (Dictionary).

**\* ItalianLoader.jar** – Jar this is called when the service stub number corresponding to the jar is picked by the client (Translator) and sent to the server (Dictionary). Can be loaded by double-clicking, but won’t be functional without a connection to the server (Dictionary).

**\*SpanishLoader.jar-** Jar this is called when the service stub number corresponding to the jar is picked by the client (Translator) and sent to the server (Dictionary). Can be loaded by double-clicking, but won’t be functional without a connection to the server (Dictionary).

Once the Translator.jar is run, the program’s GUI will load. You can select one of the translatable English words from the GUI’s dropdown menu and a language to translate the word to. Once selected, simply hit the “Translate!” button and the translator will call the Dictionary jar to fetch your translation.

The final translation will be printed out to the “Translation:” text field and into a text file in a “Temp” folder in the same directory as the jar files.

If the Translator fails to load the Dictionary due to any number of factors, then a pop-up error message will appear instead.

**Text Files**

A few text files have now been included to enable functionality of this program and should be stored in the same directory as the jar files:

**\* French.txt-** Stores a csv of French translations for the translatable words.

**\* Italian.txt-** Stores a csv of Italian translations for the translatable words.

**\* Spanish.txt-** Stores a csv of Spanish translations for the translatable words.

**\* service.txt-** Stores a list of service stub numbers and jar names for the corresponding services.

**Output text files**

This assignment writes output files to a .\temp\ folder in the same directory as the location of the jar files. The output files are as follows:

**\* log.txt –** Keeps a log of outputs from Dictionary’s ServiceBroker while it reads the list of translatable words and returns the translations list for the requested language.

**\* translation.txt –** This file is created by the Translator after it receives a translation from the Dictionary. If the file already exists, additional translations are simply appended onto the file.