Steps to Launch:
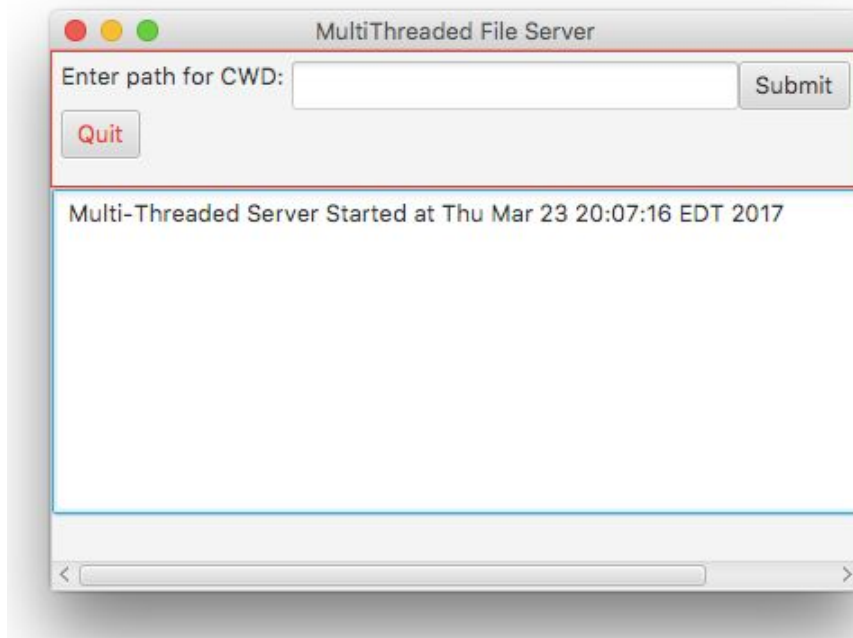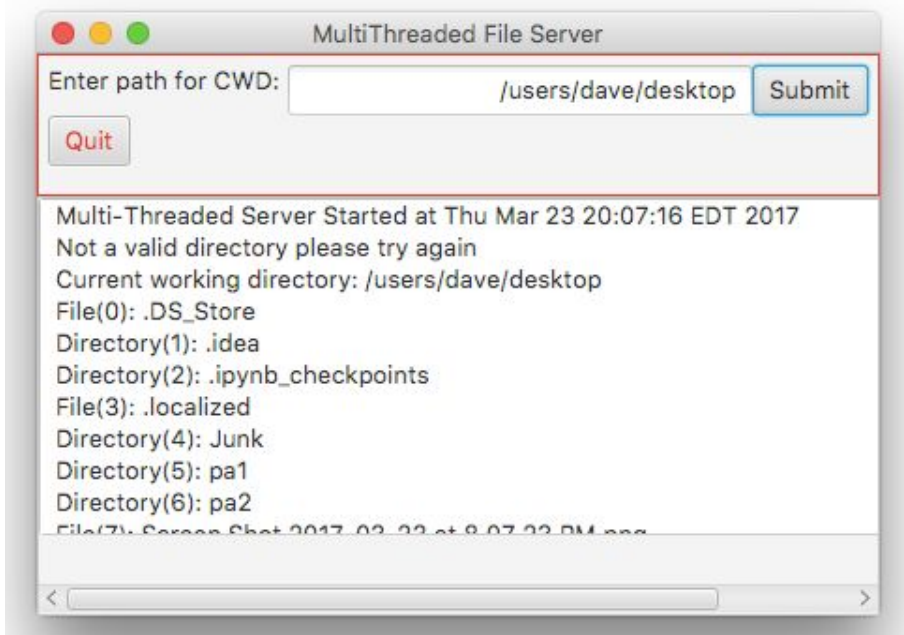1. Check which version of java you are running -> java -version you need to be running java 8. You should see something like " java version "1.8.0_92" "
2. Update Java (if needed) when I tested this on crabshell the correct version of java was available.
3. Navigate to the directory with the jar files. Run the server using "java -jar ServerToSendFiles.jar".

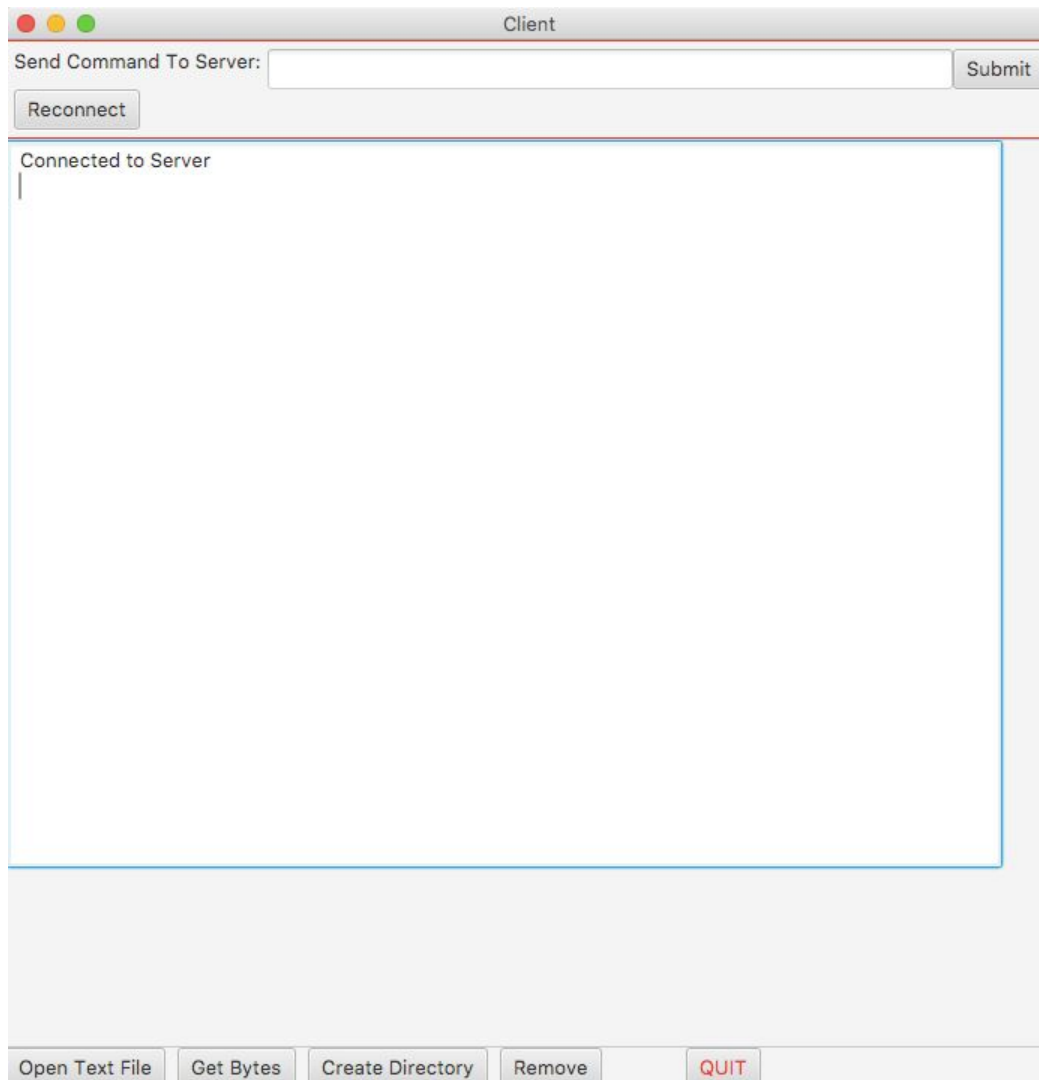When you launch the server via the jar file you will see the following screen.

You need to input a path for the current working directory (CWD) and press submit. For my local machine I was using "/users/dave/desktop". Once you hit submit the text field will update with a list of available files in that directory will show up or you will get an error message (this means your directory wasn't valid).
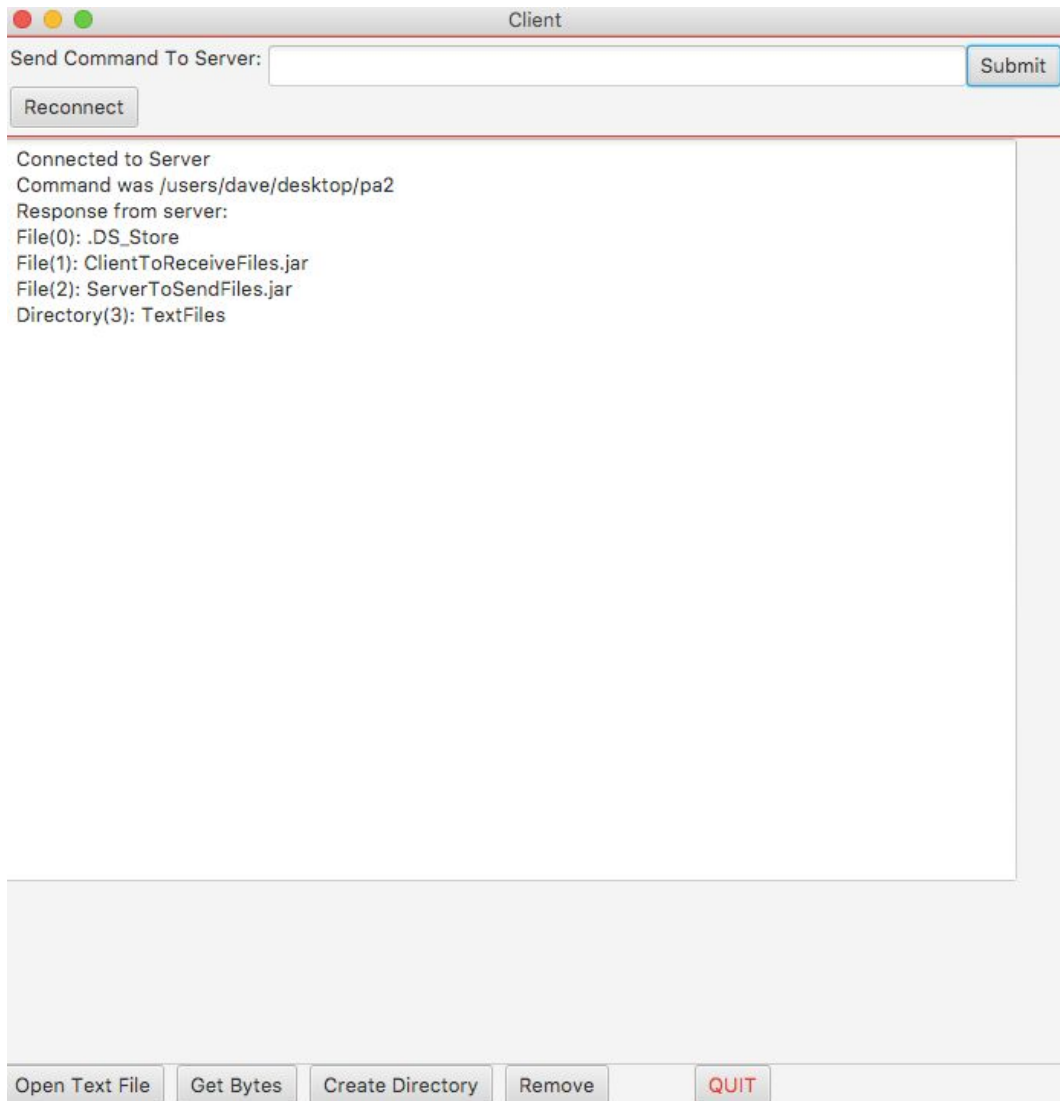

The server is now up and running on port 8675. We can now move on to the client jar.

4. In a separate terminal navigate to the directory with the jar files. Run the client using "java -jar ClientToReceiveFiles.jar"
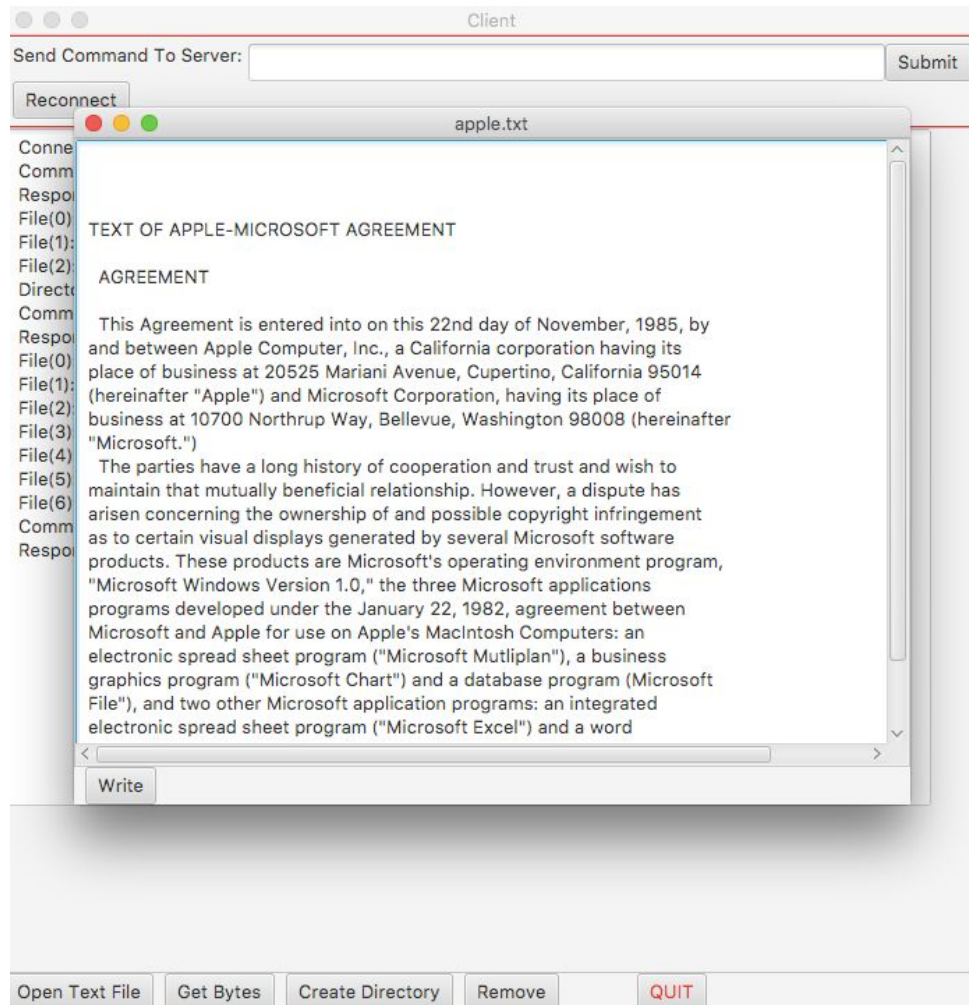5. If you want to run multiple client you will have to execute this jar multiple times.

Once you open the client you will see the following screen.

If you opened the client before the server was configured you might see an error message. If that's the case open the server, set the current working directory, then just click the "reconnect" button. The client offers a wide range of functionality. If you type "index" into the command box the server will send a list of files in the current working directory to the client. If the client chooses they can also enter a valid directory path and update the current working directory. For example "/users/dave/desktop/pa2". If you change the CWD the files in that directory will also be sent in a numbered list. This list will appear in the text field as shown below.
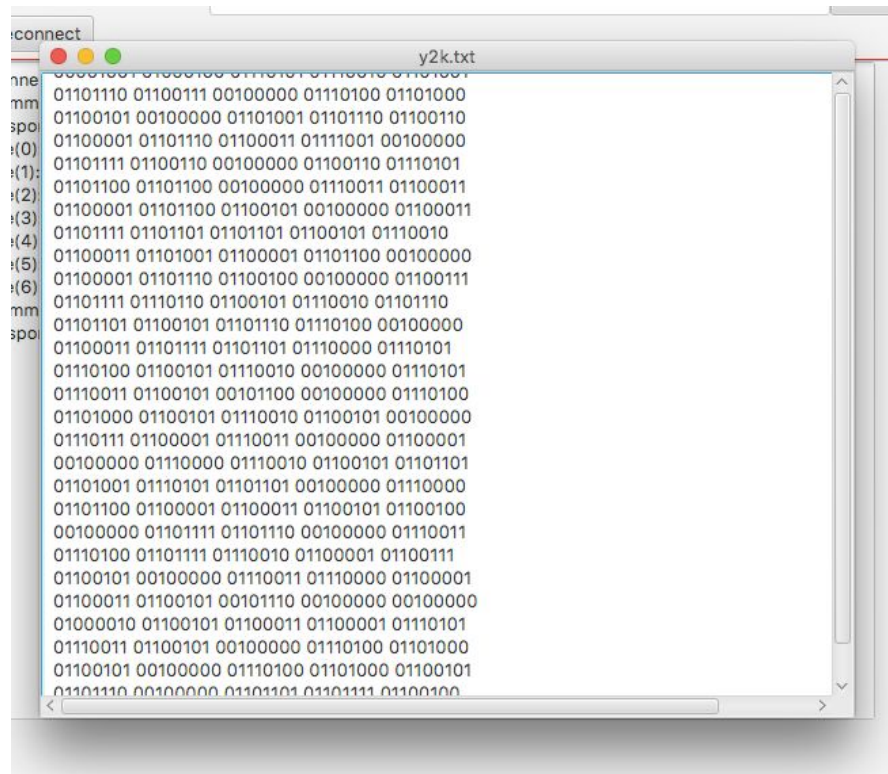
The user can then enter a number to change into that directory or request that file. In the instance that the user requests a text file. After it has been requested you can see the contents by clicking on "Open Text File". As shown on the next page.
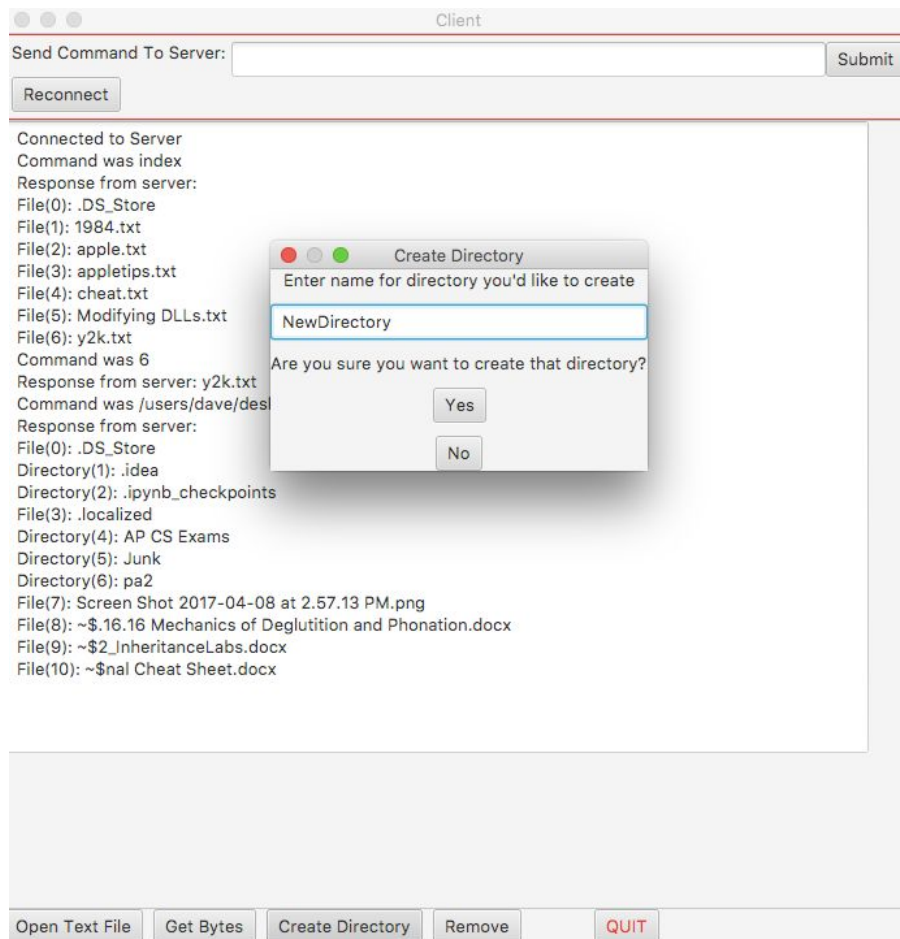
Once the text file is open you can close the pop as you would any other window which changes nothing, or you can add / remove any text you want to the file and click "Write". The client will then write the file back to the server which will replace that file on the server.
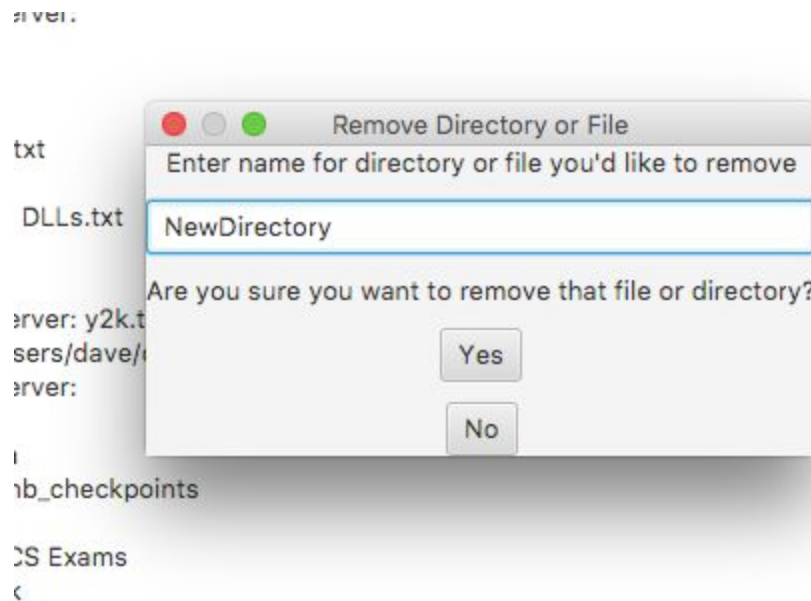
You can also get the byte data for a file. Please note that this operation takes a little longer to run and is not recommended for large files. Simply request a file from the server using the GUI and click "Get Bytes". This displayed the byte data for whatever file you requested. You cannot write anything back to the server in this instance. The byte data is read-only.

You can create a directory as follows. You can click create "Create Directory" at any point a pop up window will ask you to provide a name for the directory and it will then be created in the CWD.

You can also remove a directory at anytime by clicking "Remove" again you will be prompted with a pop up window that requests the name of the directory you want to remove. Please note **this will also delete all files inside that directory.**

When you are done just click on the "Quit" button and confirm you want to quit. The server will remain up and running.