Messager Documentation

A simple command line messaging service.

Goals:

* Peer to peer.
* User types in IP of pc on network and network name to connect to a messaging network.

Distant goals:

* User can be connected to multiple networks.

Structure:

* /
  + Makefile, README.md and project folders.
* /bin
  + Object files (if needed) and project executable.
* /src
  + Source files (subdirectories may be needed).
* /src/headers
  + Source file headers.
* documentation
  + documentation folder (duh).
* /tests
  + Tests source files, test executable, and test makefile.
* /tests/headers
  + Test source file headers.
* /tests/testfiles
  + Where test data files are kept.

Source files (in src):

* main.c:
  + Insertion point for code.
  + Don’t put functions that need to be unit tested in here.
* fileio.c:
  + Input and output for files.
* networkio.c:
  + For sending and receiving things on the network.
* userio.c
  + For displaying and getting strings to/from the user.
* mainloop.c
  + This is where the mainloop(s) are kept (i.e. network io, and user io).
* definitions.h
  + General definitions to be used through the program, such as TRUE and FALSE.

Test structure:

* Each source file will have its own testing c module which will contain one insertion point and return a 1 or 0 value (0 for fail and 1 for true).
* Insertion point function will receive a pointer to a 256 character long piece of memory to which it can add any error message, which will be displayed if the function returns 0.
* Tests are run from testsmain.c.

Bugs: