**Setup and Compilation**

1. Download and unzip the submission from eLearning on a Linux box in the multi-platform lab.
2. The submission includes:
   * Index.html
   * Img.jpg
   * testPresence.html
   * makefile
   * httpserver.hpp
   * httpserver.cpp
   * httpclient.hpp
   * httpclient.cpp
   * actionhandler.hpp
   * actionhandler.cpp
   * main.cpp
   * run /\*server executable\*/
   * runclient /\*client executable\*/
   * README.pdf /\*this file\*/
3. Environment: The program has been tested in Linux Virtual Machine and UWF SSH server (puTTY)
4. Compiling: Program include a Makefile for all the dependencies to run the program. In the command line in Linux:
   * ./run to create and run the server.
   * ./runclient to create and run the client.
   * Note: if the executables are not working properly, type make main to create server executable and make httpclient to create the client execuable.

Running the program: The submission comes with index.html, testPresence.html, img.jpg. In the Virtual Machine you will need the following:

* Two terminals open to the correct directory
* Firefox Web Browser opened and address set to localhost:60012
* Using the bash files:
  + ./run in one terminal to start the server
  + ./runclient in the other terminal to start the client.
    - Type: 127.0.0.1 for the first user input
    - Type: testPresence.html for the second user input
* Using the standard method:
  + Type ./main to run the server after creating an executable.
  + Type ./httpclient to run the client after creating an executable.
    - Type: 127.0.0.1 for the first user input
    - Type: testPresence.html for the second user input

Output: Output for the program will resemble the following screen shots.

Compiling client and server files:

Text

Description automatically generated

Running server program:

Text

Description automatically generated

Running client program:

Text

Description automatically generated

Connecting client-server:

Text

Description automatically generated

Requesting testPresence.html file:

Graphical user interface, text, application

Description automatically generated

Request fake.html file:

Graphical user interface, text, application

Description automatically generated

Open web browser:

Graphical user interface, text, application, email

Description automatically generated

Client program exits while server is on:  
  
Graphical user interface, text, application, Word

Description automatically generated

Reconnect client to server:  
Graphical user interface, text

Description automatically generated

Disconnect server while client is on:

Graphical user interface, text, application

Description automatically generated