**Setup and Compilation**

1. Download and unzip the submission from eLearning on a Linux box in the multi-platform lab.
2. The submission includes:
   * Server directory:
     1. main.cpp
     2. user.hpp
     3. user.cpp
     4. server.hpp
     5. server.cpp
   * Client directory:
     1. main.cpp
     2. client.hpp
   * makefile
   * user.txt
   * README file (this file)
3. Environment: The program has been tested in the UWF SSH server (multi-platform lab).
4. Compiling: Program include a makefile for all the dependencies to run the program. In the command line in Linux, type “make server” and “make client” to create executable files, including main for both server and client.

Running the program: The submission comes with user.txt file. Open a terminal for the server program and a terminal for each client program. Type “./server” to start the server and “./client” to start the client.

UserInput:

Client program:

User input “localhost” during the first prompt. A menu for the user to register or log in to an account. After the user has completed creating a new account or logging into an already existing account, another menu will be displayed.

Server program:

No User input is needed.

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

Create executable:

Text

Description automatically generated

Run server:

Text

Description automatically generated

Run clients:

Text

Description automatically generated

Text

Description automatically generatedText

Description automatically generated

Clients log in:  
Text

Description automatically generated

Subscribe the location:

Text

Description automatically generated

Check subscriptions for each client:  
Text

Description automatically generated

Change password:  
Text

Description automatically generated

Exit feature:  
Text

Description automatically generated  
Graphical user interface, text

Description automatically generated

A screenshot of a computer screen

Description automatically generated with low confidence

Unsubscribe:

Text

Description automatically generatedText

Description automatically generated