**Chat Server Project with a GUI for the Clients**

**Due Wednesday May 24, 2017**

**REQUIREMENTS:**

**All of the below:**

1. (45pts)

Create a group chat server that clients will connect to.

The default behavior when a message is sent from a client is that it goes through the server and the server sends the message to ALL connected recipients.

1. (30pts)

The client should have the option of sending a private message, by specifying who they want to send a message to.

1. (25pts)

The client should be able to send an encrypted private message using a OneTimePad, by specifying who they want to send a message to and that they intend to encrypt it. (Messages get encrypted on the originating client’s end and decrypted on the receiving client’s end)