**Overview**

Our project provides the following functionality:

1. Help

2. Login

3. RG

3. AG

4. SG

1. The *Help* function provides the user with a brief description of each function currently provided, including the parameters for operation.

2. The *Login* feature allows the user to login and maintain a preserved state of activity on the forum.

3. The *RG* feature allows the user to browse a certain group’s posts and read/write to the group.

3. The *AG* feature lists all the groups available and specifies whether the user is subscribed or not.

3. The *SG* feature lists all the groups that the user is subscribed to, the functionality also lets the user know of the potential new messages.

In all instances, the server holds a cache of important data regarding both user accounts and group information. However, the client keeps its own instance to which groups it is subscribed.

**User Documentation**

Our group used a standard Client/Server solution to the presented assignment. Therefore, both programs must be executed for intended results.

Server:

python3 server/discussionServer.py

Client:

python3 client/discussionServer.py [IP\_ADDRESS]

For optimal results, please use python3.

For parameters on functions within the server, the user can refer to the *Help* menu or to the spec.html.