EJ Johnson & Sarah Dennis
COR-235-01
4/26/18
Extra Credit Features

Interface:

In order to make our interface more understandable and appealing to the eye, we formatted it so it looked like a normal chat room interface. To do so, we formatted the epoch time integer to look like a normal date time including day of week, month, day of month, time (down to seconds), and year. To do so we used the following command:
datetime.datetime.fromtimestamp(new_data[i][2]).strftime('%c')
Where new_data[i][2] is the epoch time integer.

We also included all the information about the message in the format of
user_sending_message (@user(s)_message_sent_to): message, for example:
EJ (@ALL): hello world
This includes all the information a user would like to know about a specific message being sent.

History:

We included a feature which saves the history of chat messages across server restarts. In order to do this, we created a txt file that stores all the messages that are sent. When the server starts, it loads the json dictionary from history.txt and saves it in the list of messages. Once a message is created, we read in all the contents of history.txt, load it into a dictionary, append that message to the dictionary, then dump the dictionary back into history.txt. If the file is empty when the server starts, meaning there is no history, we create a new dictionary that will be used from there on out.

Clear:

When the user is overwhelmed by messages, they can type clear to clear messages from the chat. Doing so will get rid of only messages and reprint the info string and list of users.