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Chatting App Report

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Files:

- chatclient.py
- chatserver.py

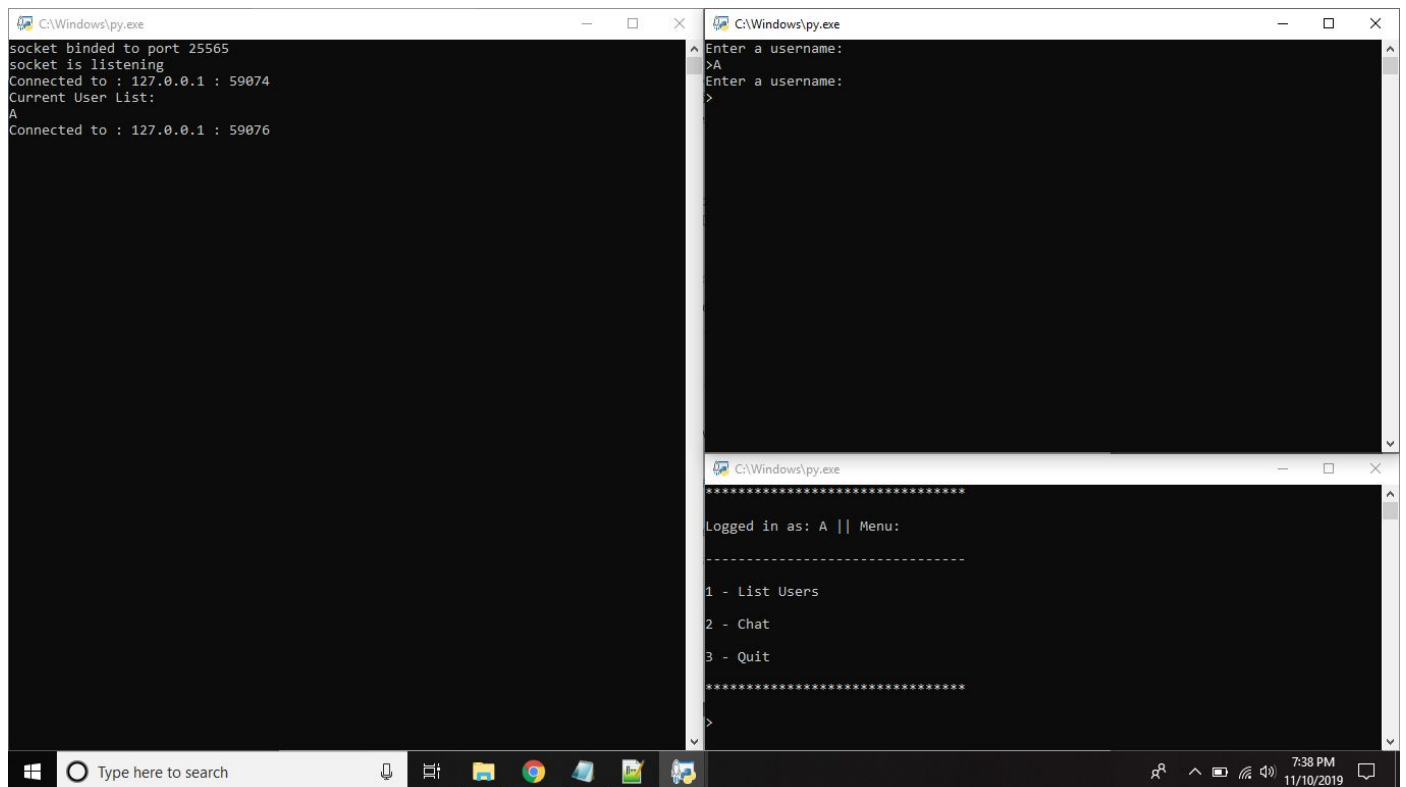
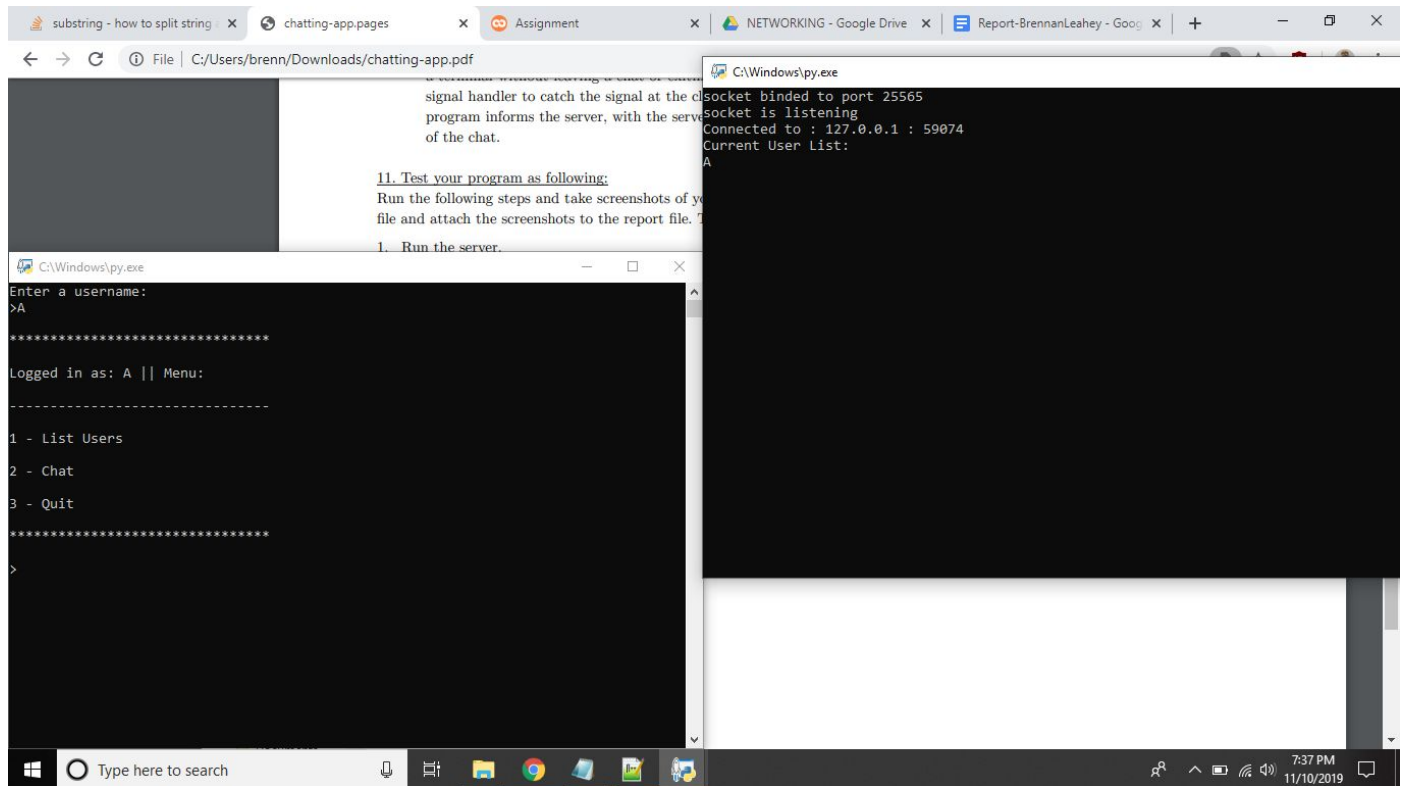
Implementation:

The implementation used was threading to support multiple clients (on the server side), and a thread to support listening to messages (on the client side). The libraries used are time, socket, sys, and _thread. I tried to receive messages on the client side without threading, but could not come up with a solution that did not require threading.

Functionality:

The program fits all criteria except group chat. The program support private chatting. This project took me well over 20 hours. This was mostly due to lack of guidance and resources. Overall, I did not have a good experience when designing this app. Between the frustration and lack of guidance, there was not much to enjoy. However, I did fulfill the criteria that was specified in the rubric. Below are screenshots of the test. I did switch up client D with client E in the instructions. I hope something this trivial does not negatively impact my grade.

Test:



```
C:\Windows\py.exe
socket binded to port 25565
socket is listening
Connected to : 127.0.0.1 : 59074
Current User List:
A
Connected to : 127.0.0.1 : 59076
Current User List:
A
B

C:\Windows\py.exe
Enter a username:
>A
Enter a username:
>B

*****
Logged in as: B || Menu:
-----
1 - List Users
2 - Chat
3 - Quit
*****
> -

C:\Windows\py.exe
*****
Logged in as: A || Menu:
-----
1 - List Users
2 - Chat
3 - Quit
*****
>
```

```
C:\Windows\py.exe
socket binded to port 25565
socket is listening
Connected to : 127.0.0.1 : 59074
Current User List:
A
Connected to : 127.0.0.1 : 59076
Current User List:
A
B
B: 2
B: 2 - Chat request
**Request: B Wants to talk to A
A is valid.
A:
A replied: "" A: yes
Connecting B with A
Finished chat function

C:\Windows\py.exe
*****
Logged in as: B || Menu:
-----
1 - List Users
2 - Chat
3 - Quit
*****
> 2
Who would you like to chat with?
A Available
B Available

~~~~~
> A
> Starting private chat with A
~~~~~

C:\Windows\py.exe
2 - Chat
3 - Quit
*****
> Incoming request
~~~~~
B would like to chat. Hit enter then Enter yes/no
~~~~~
> yes
>
```

```
C:\Windows\py.exe
Current User List:
A
B
Connected to : 127.0.0.1 : 59297
Current User List:
A
B
C
Connected to : 127.0.0.1 : 59298
Current User List:
A
B
C
D
Connected to : 127.0.0.1 : 59299
Current User List:
A
B
C
D
E
B: 2
B: 2 - Chat request
**Request: B Wants to talk to A
A is valid.
A:
A replied:: A: yes
Connecting B with A
Finished chat function
A: hello
B: hi

C:\Windows\py.exe
Logged in as: A || Menu:
-----
1 - List Users
2 - Chat
3 - Quit
*****
> Incoming request
~~~~
B would like to chat. Hit enter then Enter yes/no
~~~~
> yes
Starting private chat with B
~~~~
B: 2
> hello
> B: hi
~~~~

C:\Windows\py.exe
3 - Quit
*****
> 2
Who would you like to chat with?
A Available
B Available
C Available
D Available
E Available
~~~~
> A
> Starting private chat with A
~~~~
A: hello
~~~~
hi
>

C:\Windows\py.exe
Enter a username: >E
*****
Logged in as: E || Menu:
-----
1 - List Users
2 - Chat
3 - Quit
*****
```

```
C:\Windows\py.exe
Current User List:
A
B
Connected to : 127.0.0.1 : 59297
Current User List:
A
B
C
Connected to : 127.0.0.1 : 59298
Current User List:
A
B
C
D
Connected to : 127.0.0.1 : 59299
Current User List:
A
B
C
D
E
B: 2
B: 2 - Chat request
**Request: B Wants to talk to A
A is valid.
A:
A replied:: A: yes
Connecting B with A
Finished chat function
A: hello
B: hi
C: 1
C: 1 - List users request

C:\Windows\py.exe
Enter a username:
>C
*****
Logged in as: C || Menu:
-----
1 - List Users
2 - Chat
3 - Quit
*****
> 1
Here are the users:
A Busy chatting w/ B
B Busy chatting w/ A
C Available
D Available
E Available
~~~~
*****
Logged in as: C || Menu:
-----
1 - List Users
2 - Chat
3 - Quit
*****
```

