

USER MANUAL : OptiChat

A CS 224 PROJECT,

TEAM MEMBERS:

ANIKET SHIRKE (150100012)

HUZEFA CHASMAI (15D170013)

SAMARJEET SAHOO (150100017)

UDDESHYA UPPADHYAY (15D170007)

Packages required on system:

1. Python 2.7 or above
2. Python 3 (Note: Both 2 and 3 are necessary)
3. Tkinter GUI library for Python 2.7
4. Netifaces library

Installation (if required):

Python 2.7 and 3 are standard

For Netifaces :

`sudo pip3 install netifaces`

For Tkinter GUI library:

`sudo apt-get install python-tk`

How to use :

1. To start the server, run the command :

`python3 server.py <port no>`

2. To start the client, run the command :

`python client.py`

The server side runs automatically and selectively keeps showing notifications as the application goes through various stages. There is nothing to be controlled in the server side once it has started running.

The client side on running produces a starting window which gives 2 options : To register in case you are not a part of the chat application, or to login in case you are.

Registration :

On clicking the register button, a new screen is displayed which takes in Server IP, Server port, Username and password to be used for login. After clicking "Register" , if successful, one is redirected to the Login page.

Login :

Here, one just needs to enter the Server IP, Server port, Username and password to be used for login. After clicking Login, if authenticated,(credentials are correct), then you are redirected to the chat page.

Chatting :

The list of all online users are displayed on the left side . To send a message to one or more of them, just select your intended recipients and type in the message. Then press enter key or send button and the message is sent! The sent and incoming messages are all shown on the chat screen. To broadcast a message, just don't select any users and type in your message !

Multimedia sharing:

First select the intended recipients as usual. Enter the absolute file path,(or if in the same directory, enter the file name), and then press the 'Send Multimedia' button. Please note that max file size for sharing is 100KB .

Quitting:

Just click the cross ('X') button on the title bar.

HAPPY CHATTING AND SHARING!!