# SOCKET PROGRAMMING PROJECT
# (ON YOUR SERVICE)


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## Type of our application:

We made a **telemedicine** chatbot**.**
telemedicine can lower healthcare costs, drive up efficiency and revenue, provide your patients better access to healthcare services, and ultimately get happier, healthier patients who stay in your organization.

## How our application works:

We made a multi-connection server that will allow a lot of client to benefit from the server at the same time. We did that using threading which allow us to use multiple threads for the same python program.

We use dictionary in python. When the clients ask a certain question, we get the answer from the dictionary.

The user will interact with the server through application which contains the client code. Which means the application is inside the main.py?

## Type of protocol:

We used **TCP**

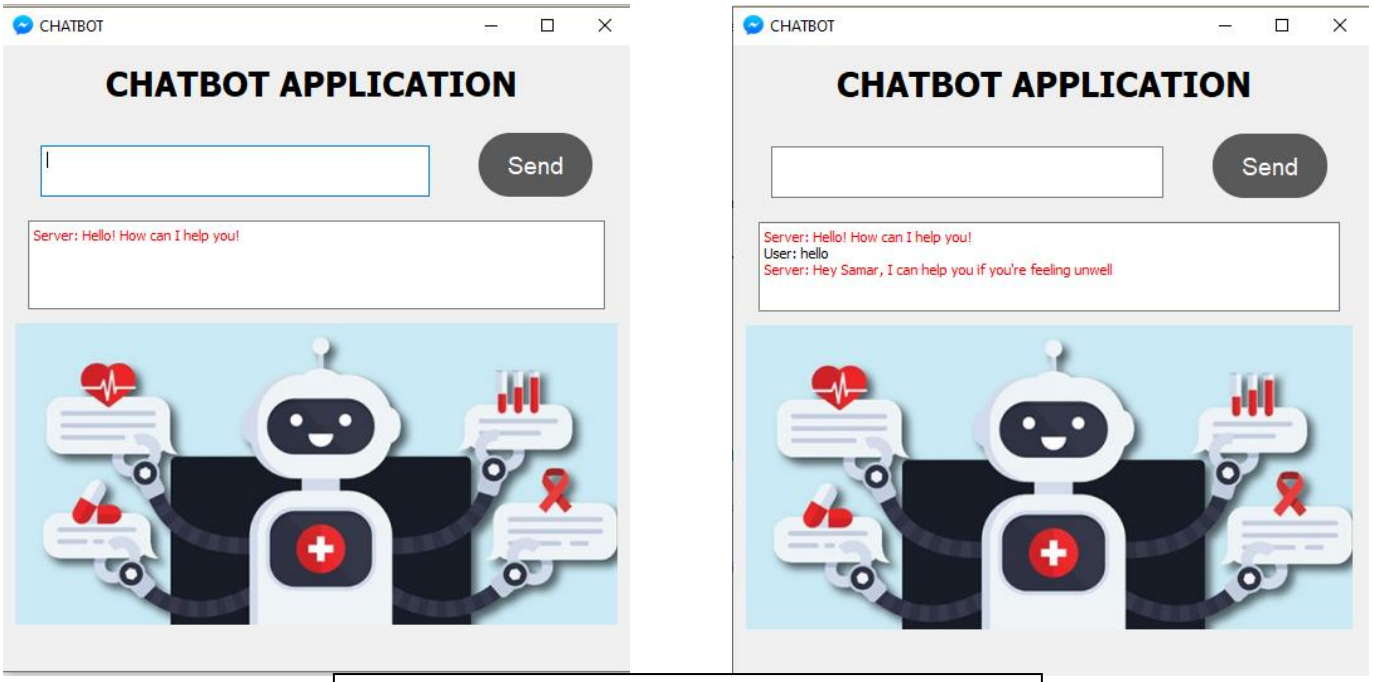
## Why did we use TCP?

Is reliable: packets dropped in the network are detected and retransmitted by the sender.

Has in-order data delivery: data is read by your application in the order it was written by the sender.

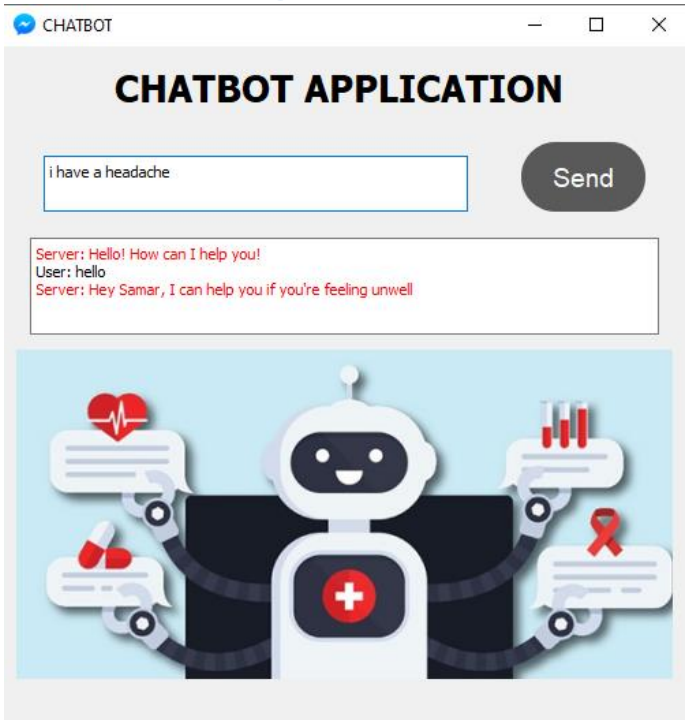
This how our application looks like:

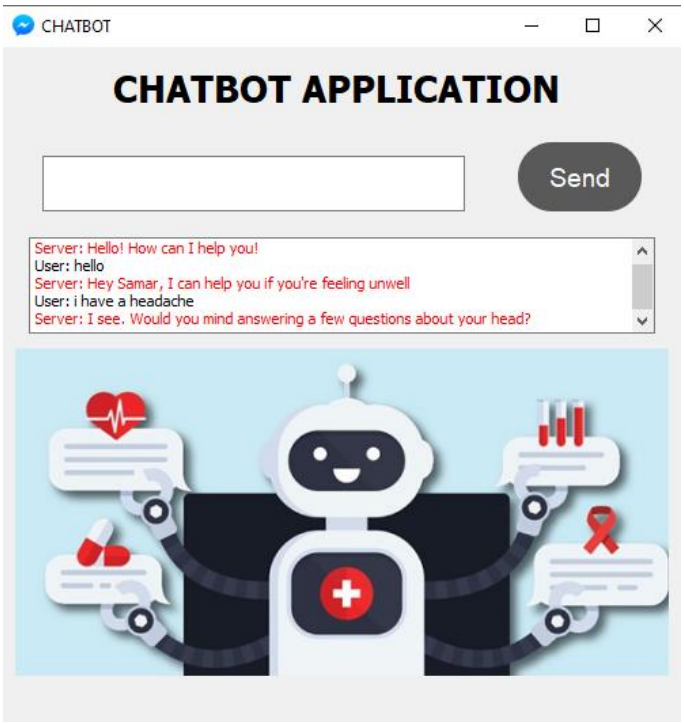

**The home page**



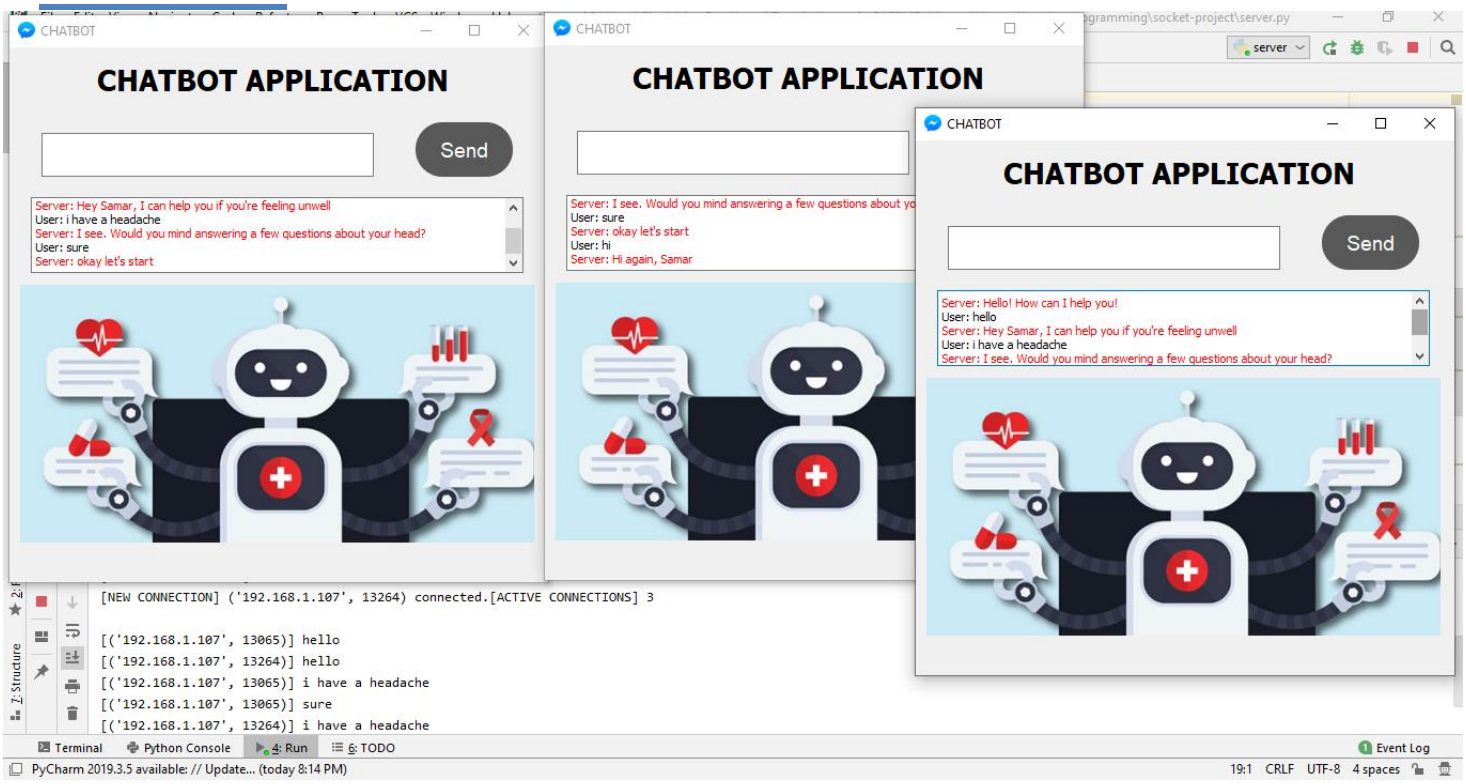

**The Chatbot**

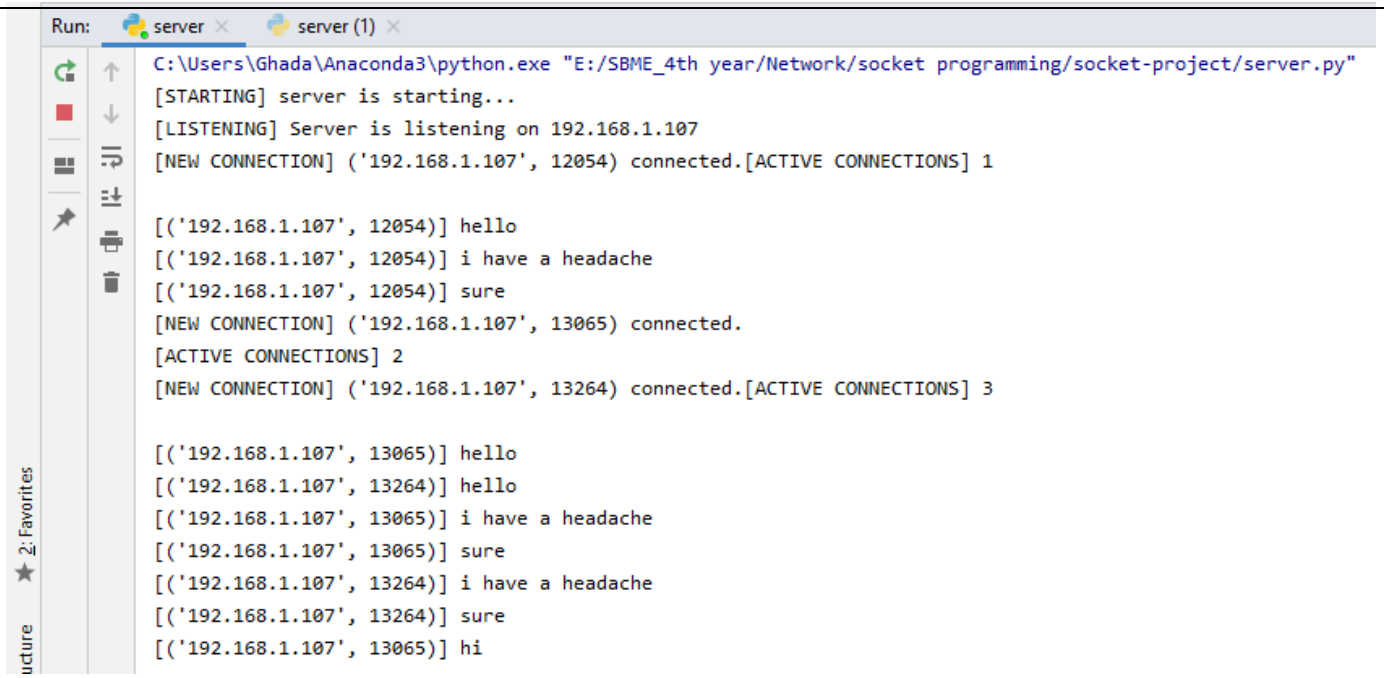
# The chatting between the client & the server:




# The multiconnection between the server & 3 clients at the same time:



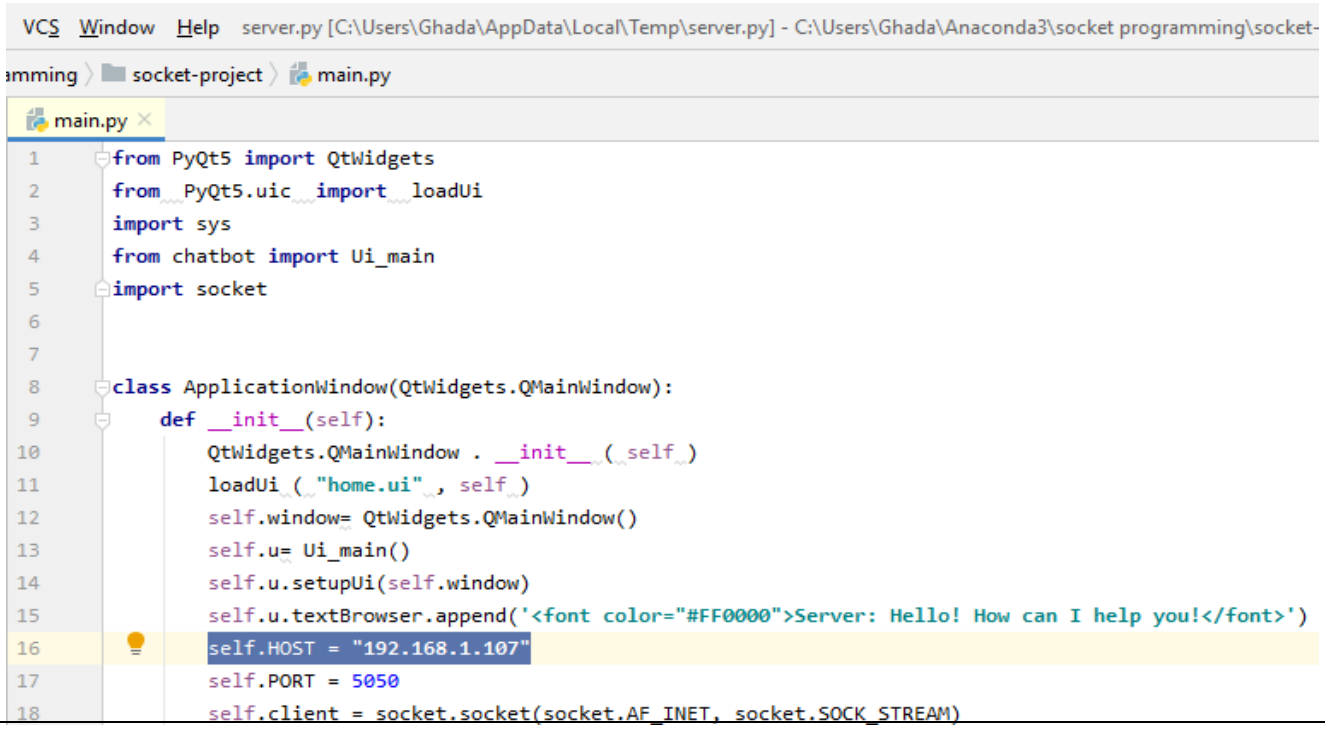



**The server code terminal during running of the main.py and start chatting**

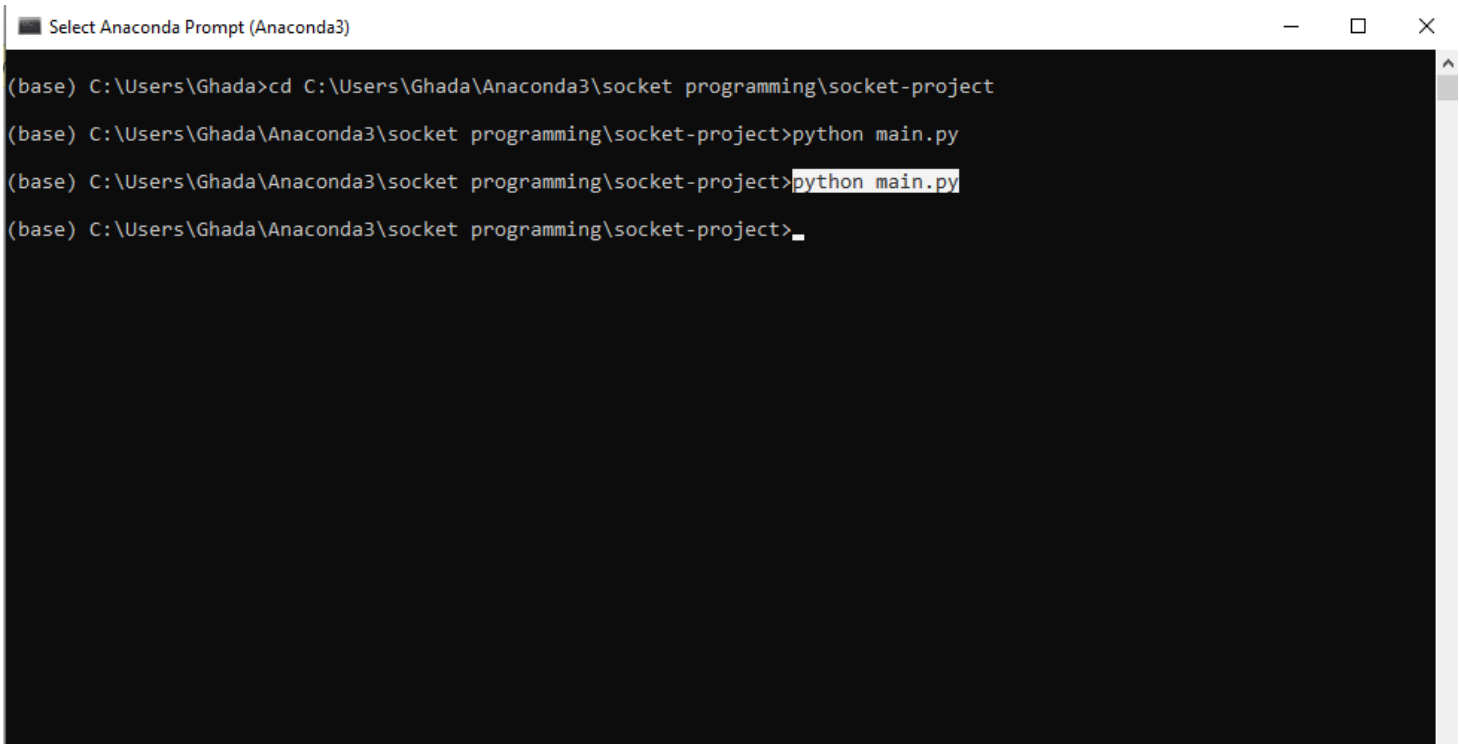
## How to run the Application:

1) **When you run the server.py file on your laptop, you get your local IP address.**

2) **You should copy & paste that IP address on the main.py on the line highlighted below.**



3) **After making sure that you run the server.py file on any laptop on the same network, you should run main.py file on anaconda prompt by the commands attached below.**




# All the source codes are on our GitHub repository:

https://github.com/bioengsamar/socket-project?fbclid=IwAR39X-MUtX-GJ93lS0Fh67tJJE5qffKXDM81IRhCZWTgaEUEvxQuq9dDGsg