CS359: Computer Network Lab Indian Institute of Technology Patna

Lab 8 Basic Medicine Chatbot

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Objective

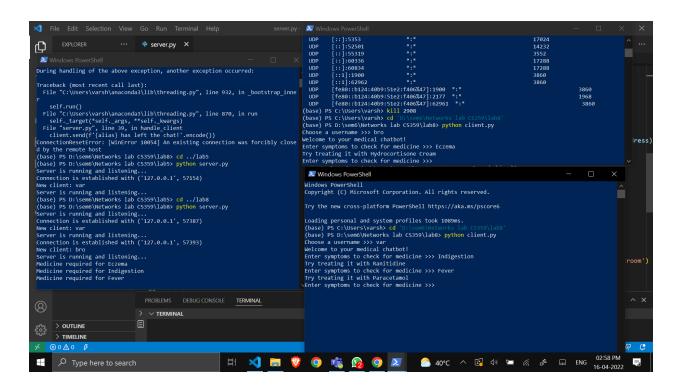
We use socket programming to make a basic medicine chatbot for this assignment.

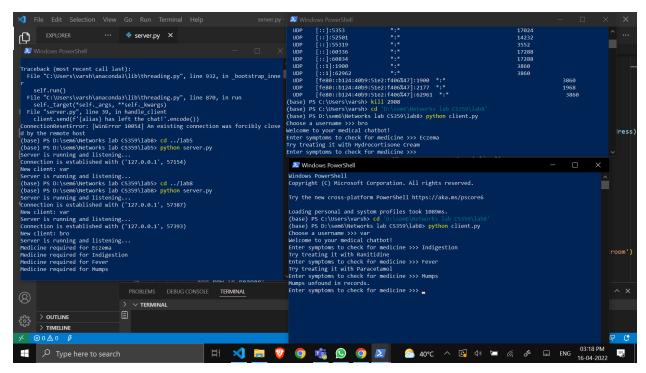
Procedure

- Similar to the multithreaded chatroom server, I've made client and server scripts to allow multiple clients get access to the chatbot.
- Once any client is connected to the server, they can give an input of a disease (which may or may not be present in the data).
- This request is passed on to the server which then extracts the excel sheet which has a few diseases mapped to their remedies.
- We parse the excel sheet for a match to the request and on finding one, send that back to the respective client. If we do not find any remedy, a message saying 'Could not find in data' is printed in terminal.
- In this manner, a user/client can make several requests in one connection.

Execution

The below screen shot shows 2 clients (right side) connected to the server (left side). Both of them request for medicine and obtain respective solutions. Chatbots are automated bots to give quick and precise responses to any type of requests from the client. This is what is achieved through this assignment. By exploiting data, we are able to provide a software which allows multiple people look for remedies parallely





The above screenshot shows the case where data isn't present (2nd client) for a particular disease, and what happens in that case.

The code can be found in the link below:

https://github.com/varshatumburu/CS359_Network_Lab/tree/main/lab8