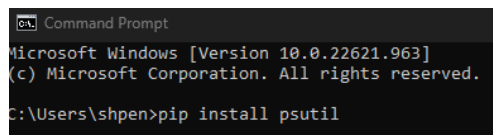# USER MANUAL

In this document I will be showing you how to install and use my application!
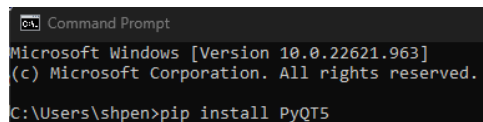
HOW TO INSTALL ALL THE NECESSARY LIBRARIES

For the application to run correctly, we will need to install some libraries beforehand. First off, we are going to install psutil which is a library used on the server side. We can do that by opening our Command Prompt and typing "pip install psutil" (without the quotation marks).

After successfully installing psutil you are going to want to now type "pip install PyQT5" which installs the PyQT5 library which is on the client side.
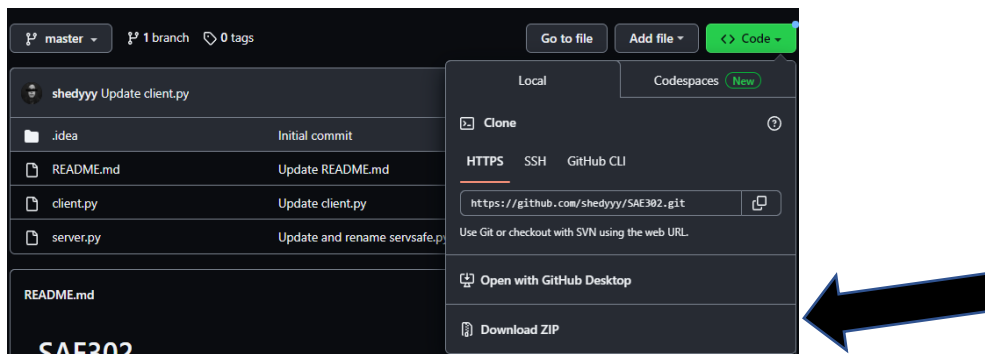

These are the only 2 libraries not installed by default, so after installing them, we can now move to the next step, which is launching the application.
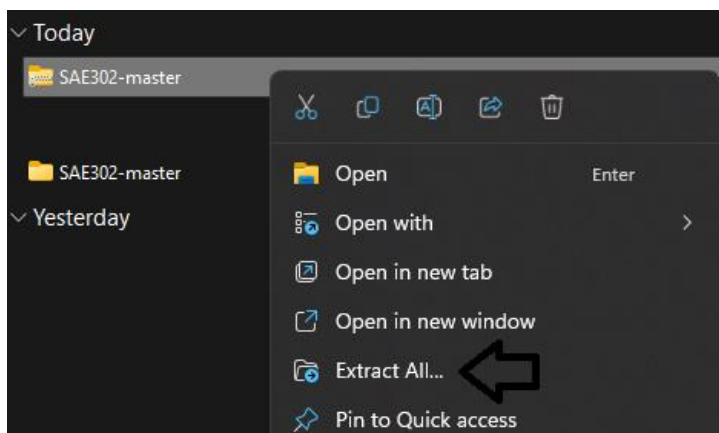
HOW TO LAUNCH THE APPLICATION

To be able to launch the application we must download it first, to do so we will have to go to https://github.com/shedyyy/SAE302 which is the official repository of the application, after that we will click on the green Code button and then proceed to click on Download ZIP which will download the project for us.
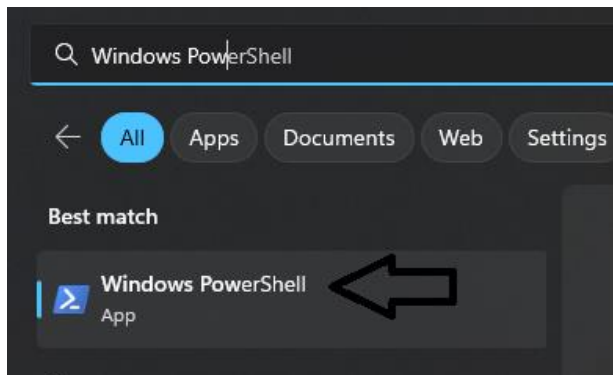

After downloading the project make sure to check the folder in which you saved it because it is important for later.

Seeing that the application is saved as a ZIP file, we will have to unzip it for us to use it. That can be done by right clicking on the ZIP file and clicking on Extract all option.

Now that we have the extracted folder, we can run the application using Windows Powershell or Command Prompt if we are using Windows and using the terminal if we are operating with Linux.

First off, what you are going to want to do is to open Windows Powershell by typing Powershell on your Windows search bar (the same for Command Prompt).

After opening Powershell you now should navigate through the folders using the dir command which shows you all the files and folders located in your current folder and cd to move to the next folder or backwards. If for example your unzipped folder of the application is in your Downloads folder, you are going to go to C:\Users\YourPCName\Downloads\SAE302-master. This is how I get to it on my own computer:

```
PS C:\> cd .\Users\shpen\Downloads\SAE302-master\
```

Now that you are on the projects directory you are going to use the command python server.py to launch the server.
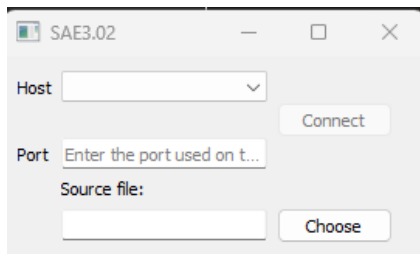
```
C:\Users\shpen\Downloads\SAE302-master\SAE302-master> python .\server.py
```

After launching the server, you are supposed to get an awaiting connection message which means that the server has successfully been launched without any errors.

Now for the client we are going to want to open another Powershell just like we did before and place ourselves in the same directory and then type the command python client.py for us to launch the client GUI.

```
C:\Users\shpen\Downloads\SAE302-master\SAE302-master> python client.py
```

After launching the client GUI, you are supposed to be welcomed by a new window which is opened which is the graphical interface of our application in which you will see this screen:
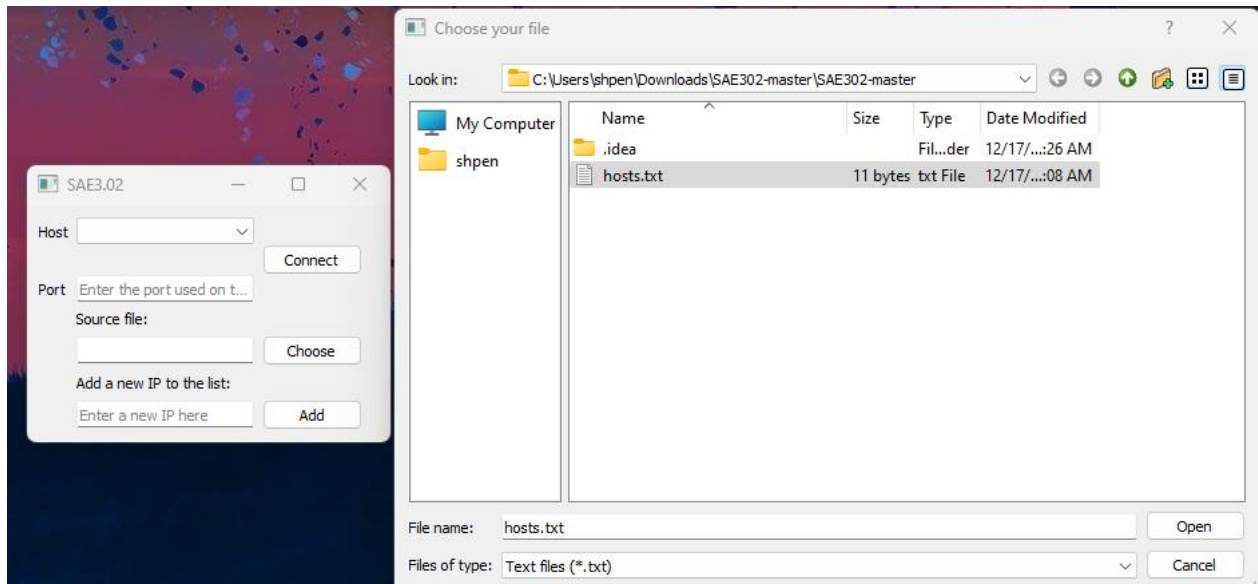

USING THE APPLICATION

Now that all the setting up is done it is time to have some fun and use the application.
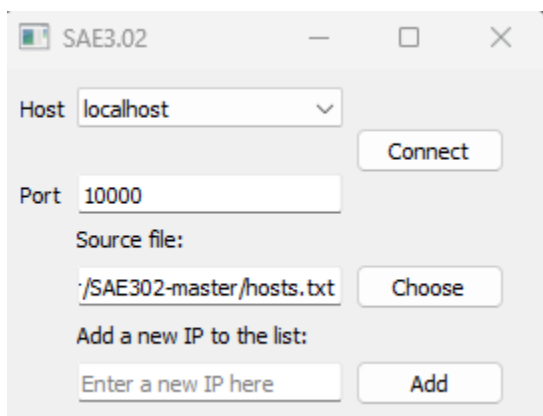
As we can see after opening the application, we are welcomed by the SAE3.02 Window which is where we are asked to put in a source file (.txt) which will contain the IP (localhost for example). I have included a .txt file on the projects folder which contains the default IPs called hosts.txt but you can also create your own text file and choose it even if it's empty.

The port by default on the server's side code is set to 10000 so you'll have to put in 10000 to be able to connect (If you want to change it, I will show you how on the last page).

You are going to want to click on the Choose button and then click on the .txt file of your choice (hosts.txt in my case).
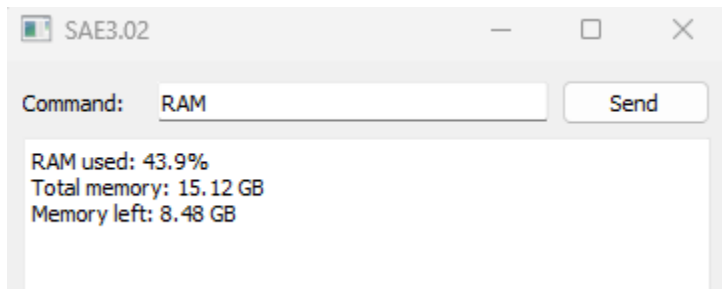

You then click Open, and you will see a new case in which you can enter new IP's who then will be added to your .txt file by clicking Add, so let's say you chose an empty file as your Source file now in the new case you will type localhost and click Add and localhost will be added to the Host case which we see on top, and you then will be able to connect it using the port 10000 by clicking Connect.
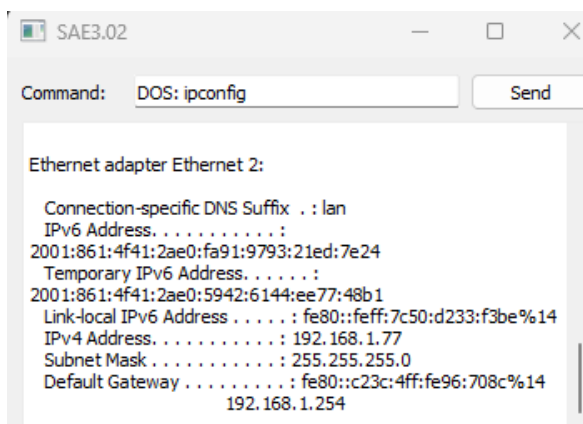
After connecting you then will be met by a new Window which opens in which you can enter various preset commands such as RAM, OS, CPU, IP etc. On the command bar and get the results of those commands underneath by clicking on Send.

Here is an example of the command RAM being used:

But that isn't all, if let's say you are operating on a Windows machine, you are going to want to use dos: in the beginning of your command and then continue by typing in a Command Prompt command such as ipconfig /all which will give you back the results as your CMD would. Here is an example of a dos: command in use:

The same can be done using the Powershell: command.