

# the ngrok tunnel chatting websocket app (one society)

The ngrok tunnel , WS-chatting terminal app

--TECHS: \*websocket \*ngrok tunnel \*fastapi \*Tui

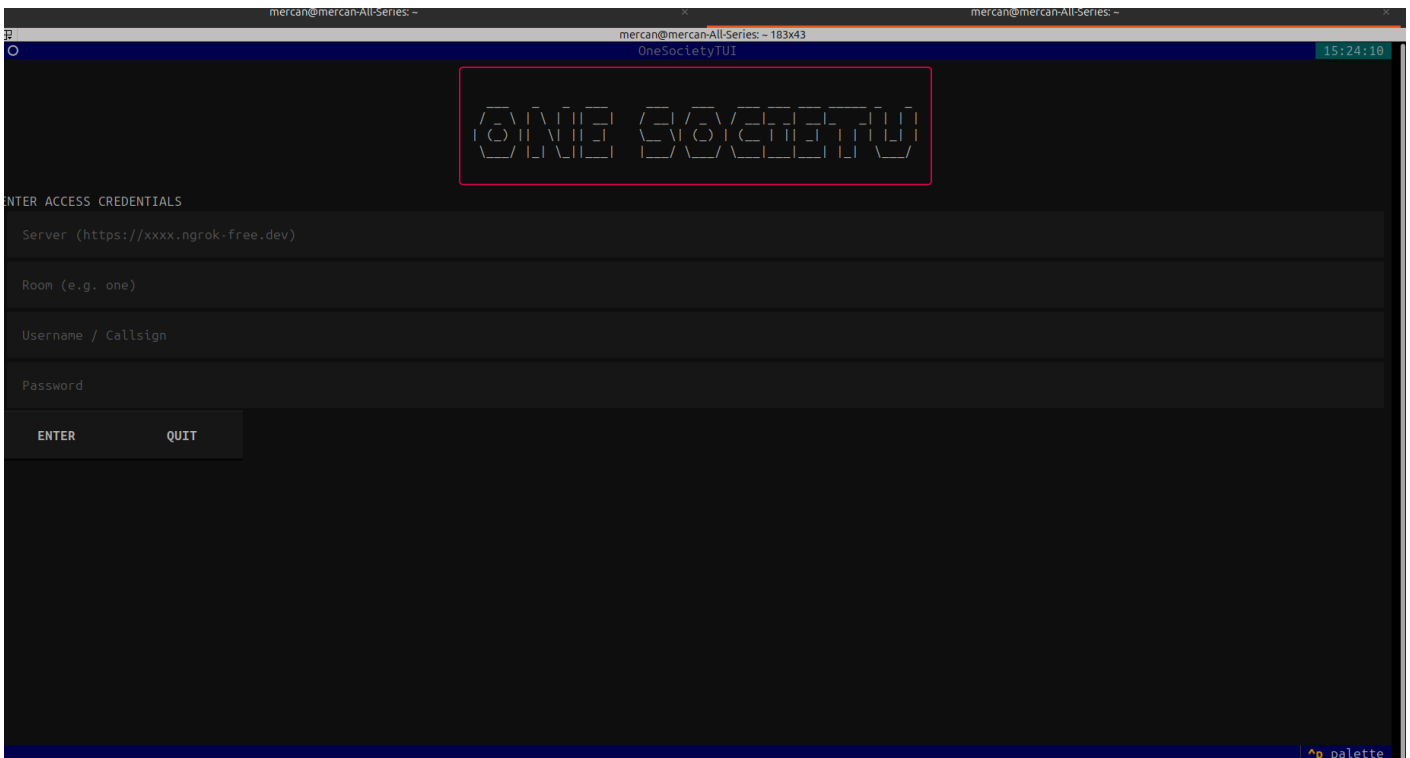
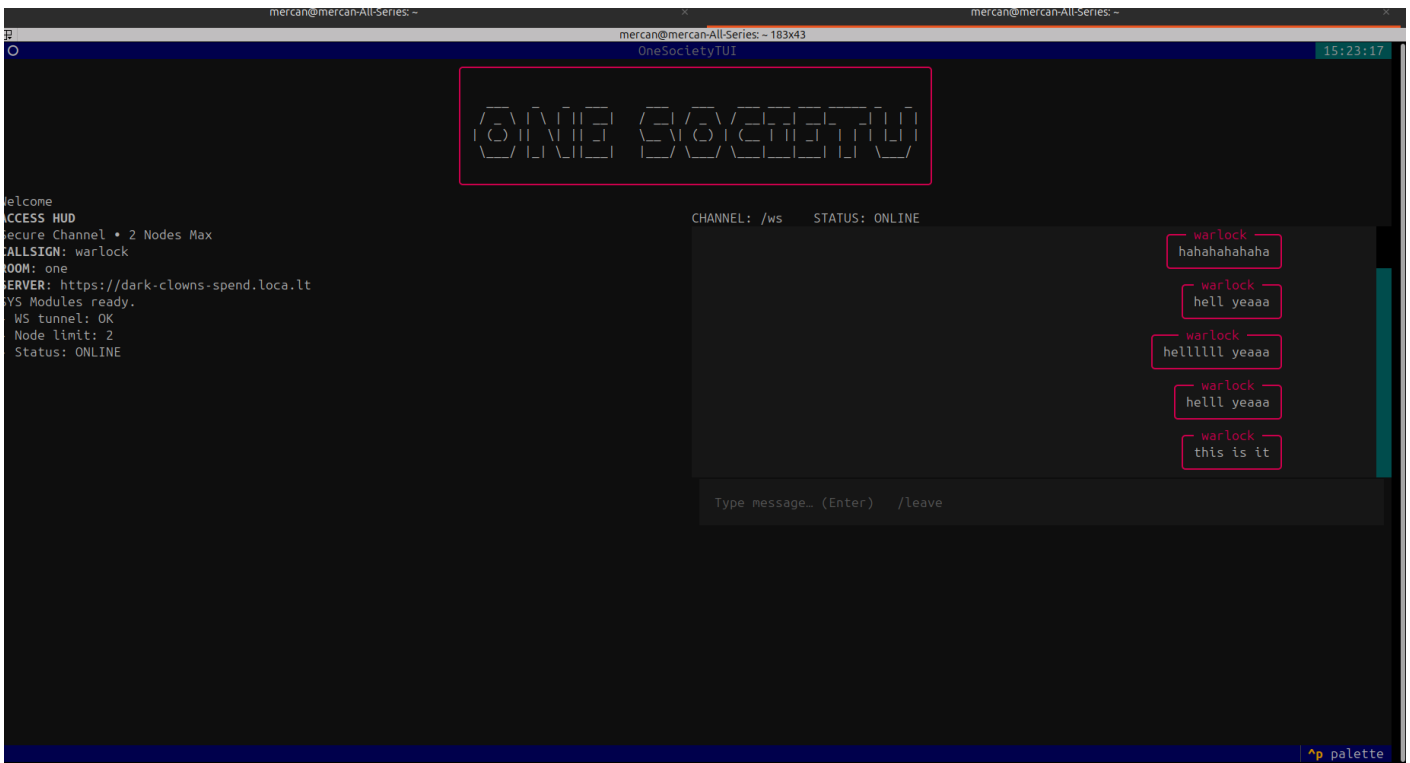
- The server : After create the ngrok tunnel i set up as a server to raspberry pi3. And actually pi was not has a fan.

Then i wrote a python script that watch the cpu degree and if its over heat the wall warning coming up the ssh devices.

```
pi-thermal-guardian.py
1 import time
2 from datetime import datetime
3 import subprocess
4
5 top_heat = 50.0
6 interval = 5
7 cooldown = 60
8
9 TEMP_PATH = "/sys/class/thermal/thermal_zone0/temp"
10
11 def read_temp() -> float:
12     with open(TEMP_PATH, "r") as f:
13         milli = int(f.read().strip())
14         return milli / 1000.0
15
16 def wall(msg: str) -> None:
17     subprocess.run(["wall", msg], check=False)
18
19 def main():
20     last_alert = 0.0
21
22     while True:
23         try:
24             temp = read_temp()
25             now = time.time()
26
27             if temp >= top_heat and (now - last_alert) >= cooldown:
28                 ts = datetime.now().strftime("%Y-%m-%d %H:%M:%S")
29                 message = (
30                     f"[ONE SOCIETY] PI TEMP HIGH: {temp:.1f}°C "
31                     f"(has to be: {top_heat:.1f}°C) @ {ts}"
32                 )
33                 wall(message)
34                 print("\a", end="", flush=True)
35                 last_alert = now
36
37                 time.sleep(interval)
38
39             except Exception:
40                 time.sleep(interval)
41
42 if __name__ == "__main__":
43     main()
44
```

-Then i just set up the project files to server.It was okey but we was still has some problems that we dont need.

but i will talk about that on problems part..



--PYTHON BACKEND: I use fast api and websocked with backend.The real time room system, To enter room you has to enter password username and the public url that ngrok tunnel give to you. When user exit he erase to list and sending a message another user that (user leave).The all rooms have maximum 2 user rules..

<https://github.com/mercan798/Ngrok-Tunnel-WS/tree/main>

--THE UI: I use a Tui library to make it and i thing it was nice, not that complicated. The best part of ui, i try to

keep it simple and i thing its looking good at all. And the css i will not making special space for css i hate it its just a bunch of colors, i think i have to beat this habbit like i said the megagigawhat page but this is me and my book so i cant keep secrets.. I make this project for just me and my uncle.

--HOW WE ARE USE IT??: So to use it we have to set up all files to each computer and run the term.py , then a security wall will waiting for us and we give all infos. Like i said we have our offices the server that keep ngrok tunnel and the project files, and the degree watcher.

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--THE PROBLEMS WHILE I BUILD THIS PROJECT:

- The Type Mismatch: When i develop this project, i set up rooms as rooms ={} right. But user data sometimes take over like a list. And the system was waiting dictionary ,but user method it was not suitable actually.
- The solution: i gave the user the user id. It was become the dic alredy. For every websocket object creatunique id. Kind of working. I beat this problem like this. It shows i need to work on python fundamentals more :))
- The 502 504 problems : The fast api was aint working for a while and never find out till i take a the problem Ngrok cant reach the backend problem. Then i turn it on this was the soludition.

--The token proplem : i have out of token and i cacnt do billing for now and i will change tunnel as local unnel for now . But now i will seet up docker to dietpi ;

```
Installing dependencies:
 containerd iptables libip4tc2 libip6tc2 libnetfilter-contrack3 libnfnetlink0 libnftnl11 runc tini
Suggested packages:
 containernetworking-plugins docker-doc aufs-tools btrfs-progs cgroupfs-mount debootstrap rinse rootlesskit xfsprogs zfs-fuse | zfsutils-linux firewalld
Recommended packages:
 apparmor dbus-user-session docker-cli git needrestart xz-utils nftables criu
Summary:
```

DietPi v10.1.2 : 12:49 - Thu 03/19/26

```
- LAN IP : 172.16.34.123 (eth0)
[ INFO ] DietPi-Login | Waiting 5 seconds before checking again. Please wait... (Press CTRL+C to abort)
^Croot@DietPi:~/ws# cc^C
root@DietPi:~/ws# c^C
root@DietPi:~/ws# c^C
root@DietPi:~/ws# cdc ws
-bash: cdc: command not found
root@DietPi:~/ws# uvicorn main:app --host 0.0.0.0 --port 8080
-bash: uvicorn: command not found
root@DietPi:~/ws# source venv/bin/activate
(venv) root@DietPi:~/ws# uvicorn main:app --host 0.0.0.0 --port 8080
INFO: Started server process [7334]
INFO: Waiting for application startup.
INFO: Application startup complete.
INFO: Uvicorn running on http://0.0.0.0:8080 (Press CTRL+C to quit)
```

DietPi v10.1.2 : 12:49 - Thu 03/19/26

```
- LAN IP : 172.16.34.123 (eth0)
[ INFO ] DietPi-Login | Waiting 5 seconds before checking again. Please wait... (Press CTRL+C to abort)
```

^[[1;5A

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[ INFO ] DietPi-Login | Waiting 5 seconds before checking again. Please wait... (Press CTRL+C to abort)
^Croot@DietPi:~/ws# ^C
root@DietPi:~/ws# ^C
root@DietPi:~/ws# ^C
root@DietPi:~/ws# ^C
root@DietPi:~/ws# c^C
root@DietPi:~/ws# ^C
root@DietPi:~/ws# sudo apt install -y nodejs npm
```

```
DietPi v10.1.2 : 12:49 - Thu 03/19/26
```

```
- LAN IP : 172.16.34.123 (eth0)
INFO ] DietPi-Login | Waiting 5 seconds before checking again. Please wait... (Press CTRL+C to abort)
Croot@DietPi:~/ws# cc^C
oot@DietPi:~/ws# c^C
oot@DietPi:~/ws# c^C
oot@DietPi:~/ws# c^C
oot@DietPi:~/ws# cdc ws
bash: cdc: command not found
oot@DietPi:~/ws# uvicorn main:app --host 0.0.0.0 --port 8080
bash: uvicorn: command not found
oot@DietPi:~/ws# source venv/bin/activate
venv) root@DietPi:~/ws# uvicorn main:app --host 0.0.0.0 --port 8080
NFO: Started server process [7334]
NFO: Waiting for application startup.
NFO: Application startup complete.
NFO: Uvicorn running on http://0.0.0.0:8080 (Press CTRL+C to quit)
```

```
pm ERR! 404 'locack@*' is not in this registry.
pm ERR! 404
pm ERR! 404 Note that you can also install from a
pm ERR! 404 tarball, folder, http url, or git url.

pm ERR! A complete log of this run can be found in:
pm ERR! /root/.npm/_logs/2026-03-19T15_05_57_991Z-debug-0.log
oot@DietPi:~/ws# ^C
oot@DietPi:~/ws# ^C
oot@DietPi:~/ws# ^C
oot@DietPi:~/ws# ^^C
oot@DietPi:~/ws# fuck...[]
```

```
- LAN IP : 172.16.34.123 (eth0)
INFO ] DietPi-Login | Waiting 5 seconds before checking again. Please wait... (Press CTRL+C to abort)
Croot@DietPi:~/ws# ^C
oot@DietPi:~/ws# ^C
oot@DietPi:~/ws# c^C
oot@DietPi:~/ws# c^C
oot@DietPi:~/ws# ^C
oot@DietPi:~/ws# source venv/bin/activate
venv) root@DietPi:~/ws# npx locack tunnel --port 3000
3] 0:bash*
```

NOTE: The problems aren't just them but, I have tried to share only highlight problems so, this is it

I wrote this code to myself and my uncle, I am glad if you check it out !! [the ngrok tunnel chatting websocket app \(one society\)](#)

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Revision #7

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