2023



YOUNESS ZYADI MIAAD



CHAT SERVER USING MULTI THREADS BLOCKING IO MODEL (JAVA.IO)



EXECUTION

SERVER LOGS:

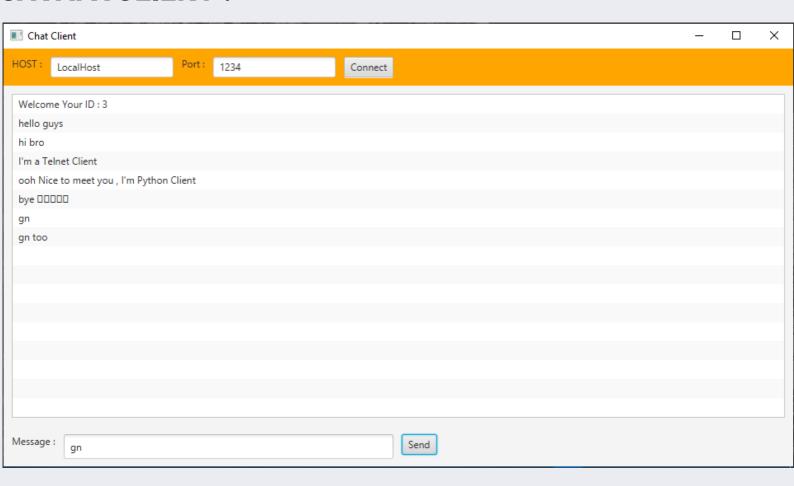
```
C:\Windows\System32\cmd.exe - java blocking.MultiThreadChatServer
C:\Users\youne\Desktop\JavaEclipse\TP1\bin>java blocking.MultiThreadChatServer
The Server is Start in Port : 1234New Client Connnecting => id : 1 IP : /[0:0:0:0:0:0:0:1]:595
54New Client Connnecting => id : 2 IP : /127.0.0.1:59557New Client Connnecting => id : 3 IP :
/127.0.0.1:59566 IP : /[0:0:0:0:0:0:0:1]:59554 Request : hello guysBroadcast message: hello gu
Broadcast message: hello guys
IP : /127.0.0.1:59557 Request : hi broBroadcast message: hi bro
Broadcast message: hi bro
| IP : /127.0.0.1:59566 Request : hi brothersBroadcast message: hi brothers
Broadcast message: hi brothers
| IP : /[0:0:0:0:0:0:0:0:1]:59554 Request : I'm a Telnet ClientBroadcast message: I'm a Telnet Cl
ient
Broadcast message: I'm a Telnet Client
IP : /127.0.0.1:59557 Request : ooh Nice to meet you , I'm Python ClientBroadcast message: oo
h Nice to meet you , I'm Python Client
Broadcast message: ooh Nice to meet you , I'm Python Client
IP : /127.0.0.1:59566 Request : Nice !!! I'm a JFX ClientBroadcast message: Nice !!! I'm a JF
X Client
Broadcast message: Nice !!! I'm a JFX Client
IP : /[0:0:0:0:0:0:0:1]:59554 Request :Broadcast message: bye
```

TELNET CLIENT CONSOLE:

Telnet localhost

```
Welcome Your ID : 1
hello guys
hi bro
hi brothers
I'm a Telnet Client
ooh Nice to meet you , I'm Python Client
Nice !!! I'm a JFX Client
bye
gn
gn too
```

JAVAFX CLIENT:



PYTHON CLIENT:

```
C:\Users\youne\Desktop\JavaEclipse>python pyclient_mt.py

Delcome Your ID : 2

hello guys

hi bro
hi brothers

I'm a Telnet Client

ooh Nice to meet you , I'm Python Client
Nice !!! I'm a JFX Client

bye

gn

gn too

gn too
```



CHAT SERVER USING SINGLE THREAD NON BLOCKING IO MODEL (JAVA.NIO)



EXECUTION

SERVER LOGS:

```
IP: /127.0.0.1:59276 Request: Nice To meet you Guys
IP: /127.0.0.1:59279 Request: Bye
IP: /127.0.0.1:59288 Request:
IP: /127.0.0.1:59276 Request: Gn
IP: /127.0.0.1:59288 Request: G
IP: /127.0.0.1:59288 Request: n
IP: /127.0.0.1:59288 Request: n
IP: /127.0.0.1:59288 Request:
```

C:\Windows\System32\cmd.exe - java nonblocking.SingleThreadChatServer

TELNET CLIENT CONSOLE:

Telnet localhost

Welcome, your ID is 3

Hello I'm a Pythont Client

Hello

Hello I'm a JFX Client

I'm a Telnet Client

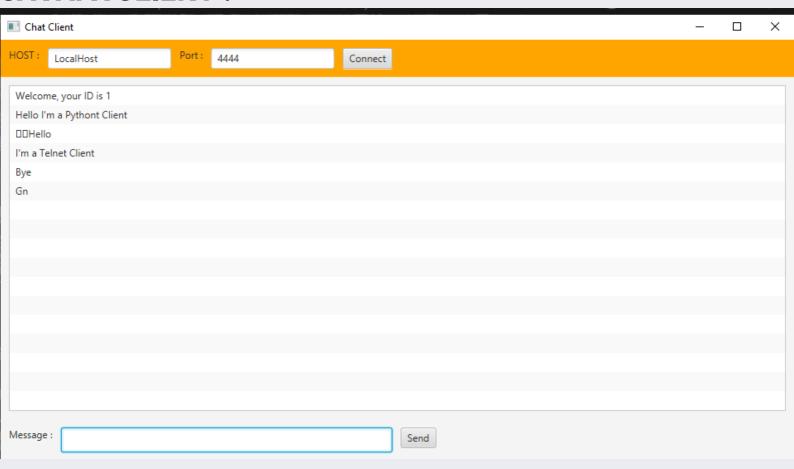
Nice To meet you Guys

Bye

Gn

Gn

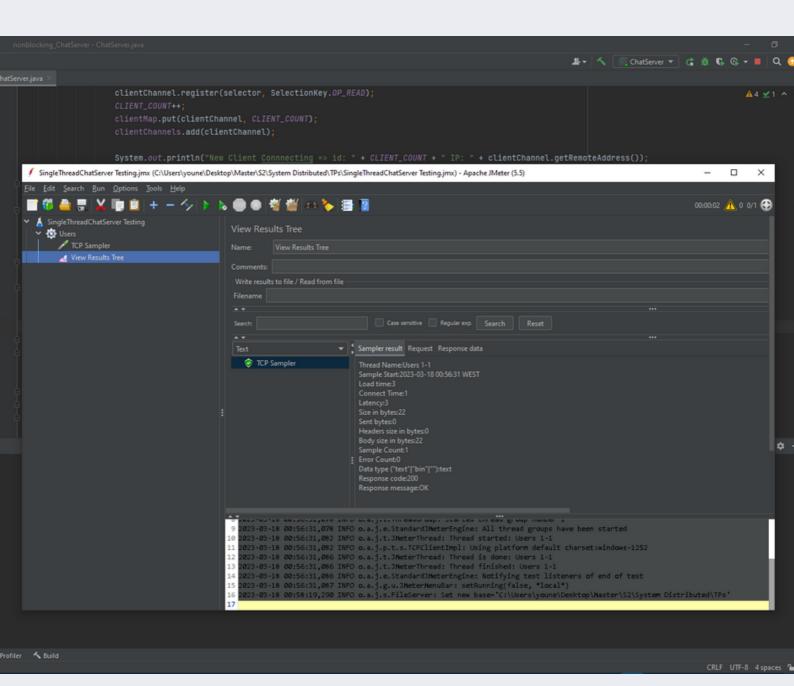
JAVAFX CLIENT:



PYTHON CLIENT:

JMETER PERFORMANCE TESTING

SINGLE THREAD NON BLOCKING IO MODEL TEST:



MULTITHREADS BLOCKING IO MODEL TEST:

:\Users\youne\Desktop\Master\S2\System Distributed\TPs\JmeterMultiThreadChatServer_Test.jmx) - Apache JMeter (5.5) <u>H</u>elp - 🤣 🕨 🔈 🌚 🕲 👹 🎳 🙉 🍾 🔚 🔞 View Results Tree View Results Tree Name: Write results to file / Read from file Filename Search: Sampler result Request Response data Text TCP Sampler Sample Start: 2023-03-18 00:40:08 WEST TCP Sampler Load time:0 TCP Sampler Connect Time:0 TCP Sampler TCP Sampler Sent bytes:0 TCP Sampler Body size in bytes:0 TCP Sampler Sample Count:1 TCP Sampler Error Count:0 Data type ("text"|"bin"|""):text TCP Sampler TCP Sampler Response message:OK TCP Sampler TCP Sampler 2023-03-18 00:40:09,585 INFO o.a.j.t.JMeterThread: Thread is done: Users 1-7 72 2023-03-18 00:40:09,585 INFO o.a.j.t.JMeterThread: Thread finished: Users 1-7 73 2023-03-18 00:40:09,671 INFO o.a.j.t.JMeterThread: Thread started: Users 1-8 74 2023-03-18 00:40:09,671 INFO o.a.j.p.t.s.TCPClientImpl: Using platform default charset:windows-1252 75 2023-03-18 00:40:09,674 INFO o.a.j.v.J.JSR223 Listener: Connected 76 2023-03-18 00:40:09,676 INFO o.a.j.v.J.JSR223 Listener: Connected 2023-03-18 00:40:09,680 INFO o.a.j.v.J.JSR223 Listener: Connected 78 2023-03-18 00:40:09,682 INFO o.a.j.v.J.JSR223 Listener: Connected 023-03-18 00:40:09,685 INFO o.a.j.v.J.JSR223 Listener: Connected

