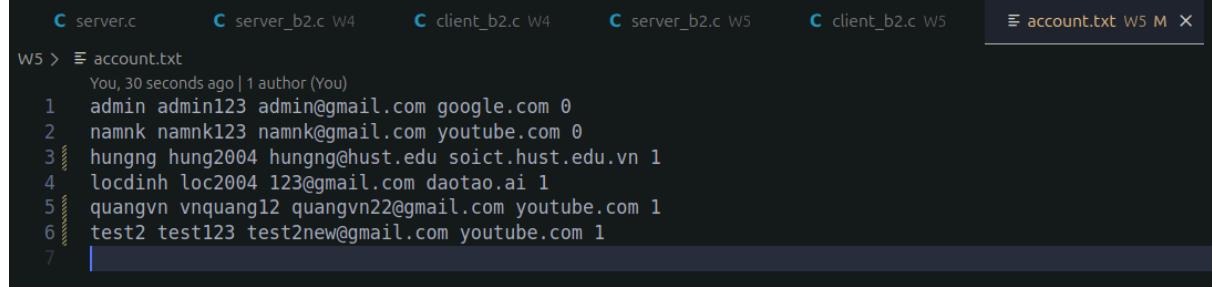


Báo cáo Week 7 trên lớp - Thực hành Lập trình mạng - Kỳ 2025.1

Nguyễn Khánh Nam - 20225749

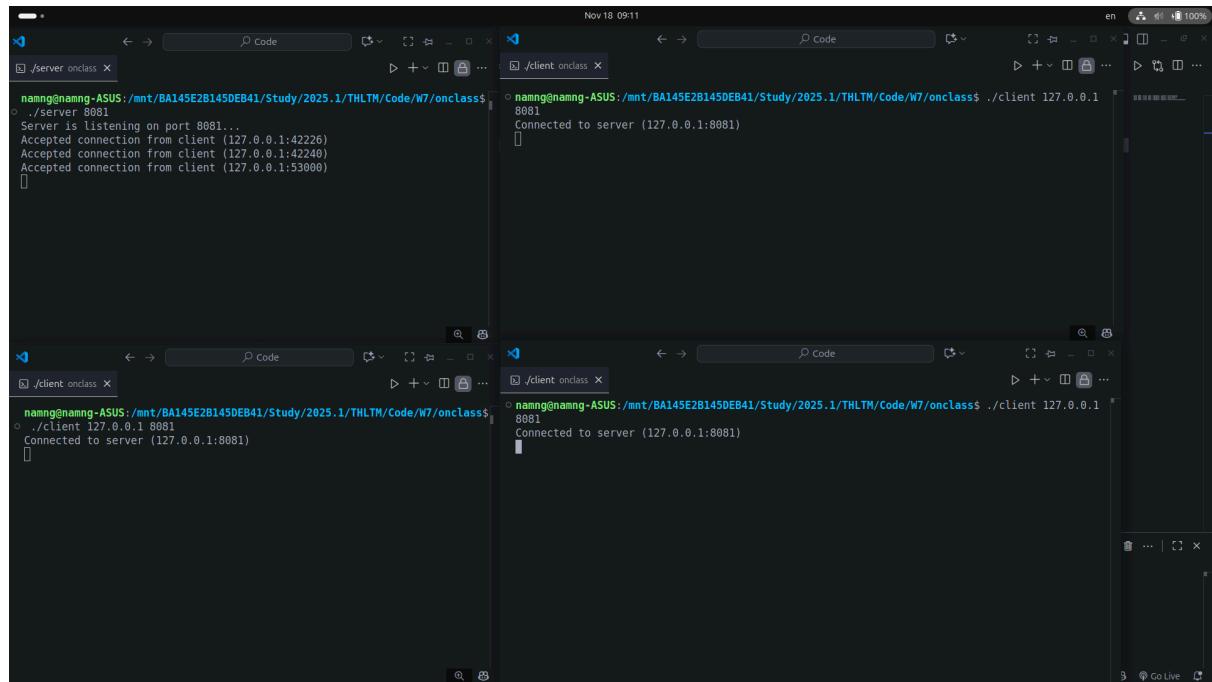
Github: https://github.com/nammannam/IT4062_Network_Programming

File account.txt:



```
server.c      server_b2.c W4      client_b2.c W4      server_b2.c W5      client_b2.c W5      account.txt W5 M X
W5 >  account.txt
You, 30 seconds ago | 1 author (You)
1 admin admin123 admin@gmail.com google.com 0
2 namnk namnk123 namnk@gmail.com youtube.com 0
3 hungng hung2004 hungng@hust.edu soict.hust.edu.vn 1
4 locdinh loc2004 123@gmail.com daotao.ai 1
5 quangvn vnquang12 quangvn22@gmail.com youtube.com 1
6 test2 test123 test2new@gmail.com youtube.com 1
7
```

Kết quả: Mô hình 1 Server - 3 Clients



```
Nov 18 09:11
namng@namng-ASUS:/mnt/BA145E2B145DEB41/Stud... /server onclass
namng@namng-ASUS:/mnt/BA145E2B145DEB41/Stud... ./server 8081
Server is listening on port 8081...
Accepted connection from client (127.0.0.1:42226)
Accepted connection from client (127.0.0.1:42240)
Accepted connection from client (127.0.0.1:53000)

namng@namng-ASUS:/mnt/BA145E2B145DEB41/Stud... ./client 127.0.0.1 8081
Connected to server (127.0.0.1:8081)

namng@namng-ASUS:/mnt/BA145E2B145DEB41/Stud... ./client 127.0.0.1 8081
Connected to server (127.0.0.1:8081)

namng@namng-ASUS:/mnt/BA145E2B145DEB41/Stud... ./client 127.0.0.1 8081
Connected to server (127.0.0.1:8081)
```

Nov 18 09:13

```

./server onclass
DEBUG: len = 8
[SERVER] [CHILD 63983] Nhận TEXT từ [namnk] : namnk123
Received message from namnk: Type=0x10, Length=8, Value="namnk123"
[SERVER] [CHILD 63983] Gửi phản hồi: CONFIRM sau khi lưu log
DEBUG: len = 8
[SERVER] [CHILD 64083] Nhận TEXT từ [admin] : admin123
Received message from admin: Type=0x10, Length=8, Value="admin123"
[SERVER] [CHILD 64083] Gửi phản hồi: CONFIRM sau khi lưu log
DEBUG: len = 6
[SERVER] [CHILD 64311] Nhận yêu cầu LOGIN: hungng
[SERVER] [CHILD 64311] Gửi phản hồi: CONFIRM cho hungng
DEBUG: len = 8
[SERVER] [CHILD 64311] Nhận TEXT từ [hungng] : hung2004
Received message from hungng: Type=0x10, Length=8, Value="hung2004"
[SERVER] [CHILD 64311] Gửi phản hồi: CONFIRM sau khi lưu log

```



```

./client onclass
namng@namng-ASUS:/mnt/BA145E2B145DEB41/Study/2025.1/THLTM/Code/W7/onclass$ ./client 127.0.0.1
8081
Connected to server (127.0.0.1:8081)
namnk
[CLIENT] Server CONFIRM (0x11): namnk
namnk123
[CLIENT] Server CONFIRM (0x11): namnk

```

Nov 18 09:13

```

./server onclass
DEBUG: len = 18
[SERVER] [CHILD 63983] Gửi phản hồi: CONFIRM sau khi lưu log
[SERVER] [CHILD 64083] Nhận TEXT từ [admin] : admin hello server
Received message from admin: Type=0x10, Length=18, Value="admin hello server"
[SERVER] [CHILD 64083] Gửi phản hồi: CONFIRM sau khi lưu log
DEBUG: len = 17
[SERVER] [CHILD 64311] Nhận TEXT từ [hungng] : hung aloaloaloalo
Received message from hungng: Type=0x10, Length=17, Value="hung aloaloaloalo"
[SERVER] [CHILD 64311] Gửi phản hồi: CONFIRM sau khi lưu log
DEBUG: len = 2
[SERVER] [CHILD 64311] Nhận TEXT từ [hungng] : ok
Received message from hungng: Type=0x10, Length=2, Value="ok"
[SERVER] [CHILD 64311] Gửi phản hồi: CONFIRM sau khi lưu log

```



```

./client onclass
namng@namng-ASUS:/mnt/BA145E2B145DEB41/Study/2025.1/THLTM/Code/W7/onclass$ ./client 127.0.0.1
8081
Connected to server (127.0.0.1:8081)
namnk
[CLIENT] Server CONFIRM (0x11): namnk
namnk123
[CLIENT] Server CONFIRM (0x11): namnk
namnguyen hello
[CLIENT] Server CONFIRM (0x11): namnk

```



```

./client onclass
namng@namng-ASUS:/mnt/BA145E2B145DEB41/Study/2025.1/THLTM/Code/W7/onclass$ ./client 127.0.0.1
8081
Connected to server (127.0.0.1:8081)
hungng
[CLIENT] Server CONFIRM (0x11): hungng
hung2004
[CLIENT] Server CONFIRM (0x11): hungng
hung aloaloaloalo
[CLIENT] Server CONFIRM (0x11): hungng
ok
[CLIENT] Server CONFIRM (0x11): hungng

```

- File log user.txt:

The screenshot shows a code editor interface with several tabs open. The tabs include 'server.c', 'protocol.h', 'protocol_utils.c', 'user.txt' (which is the active tab), 'account.txt', and 'admin_log.txt'. The 'user.txt' tab displays a log of interactions between clients and a server. The log entries are as follows:

```
W7 > onclass > log > user.txt
1 CHILD: 58079 | Client: namnk | Type=0x10 | Length=8 | Value="namnk123"
2 CHILD: 58293 | Client: admin | Type=0x10 | Length=8 | Value="admin123"
3 CHILD: 58079 | Client: namnk | Type=0x10 | Length=5 | Value="hello"
4 CHILD: 58293 | Client: admin | Type=0x10 | Length=20 | Value="helloooooooooooooooo"
5 CHILD: 63983 | Client: namnk | Type=0x10 | Length=8 | Value="namnk123"
6 CHILD: 64083 | Client: admin | Type=0x10 | Length=8 | Value="admin123"
7 CHILD: 64311 | Client: hungung | Type=0x10 | Length=8 | Value="hung2004"
8 CHILD: 63983 | Client: namnk | Type=0x10 | Length=16 | Value="namnpuyen hello "
9 CHILD: 64083 | Client: admin | Type=0x10 | Length=18 | Value="admin hello server"
10 CHILD: 64311 | Client: hungung | Type=0x10 | Length=17 | Value="hung alioiaolao"
11 CHILD: 64311 | Client: hungung | Type=0x10 | Length=2 | Value="ok"
```

The terminal window below shows the command 'naming@namng-ASUS:/mnt/BA145E2B145DEB41/Study/2025.1/THLM/Code\$'.