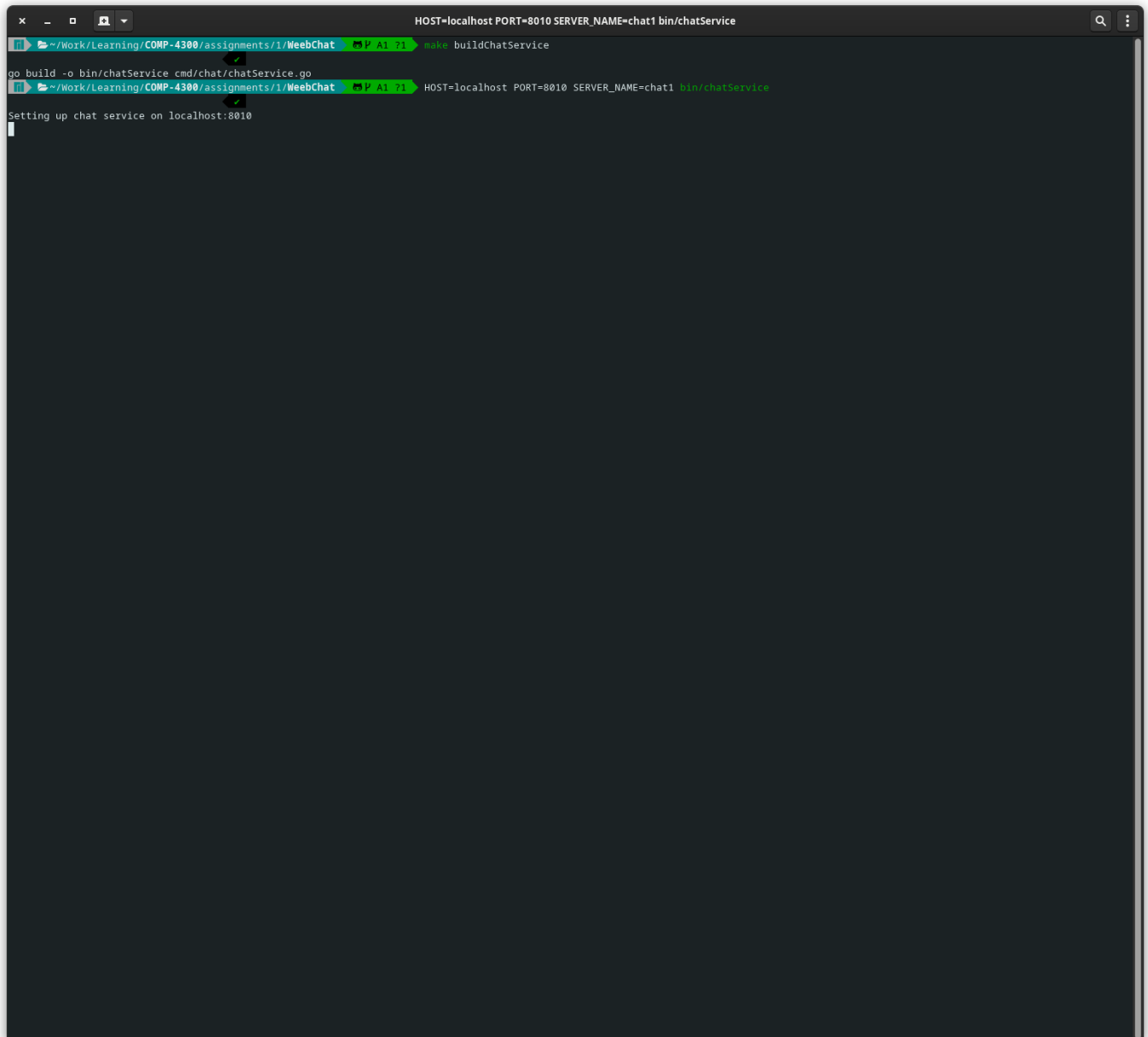


Assignment 1 - Report

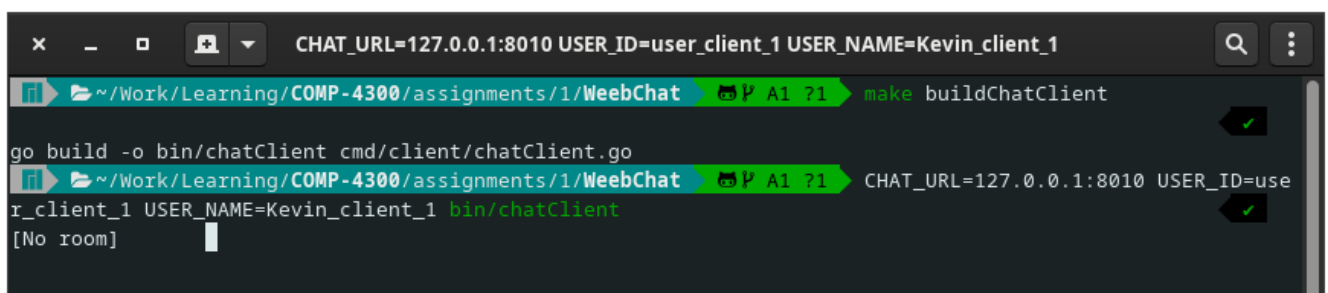
Build and Run

Server

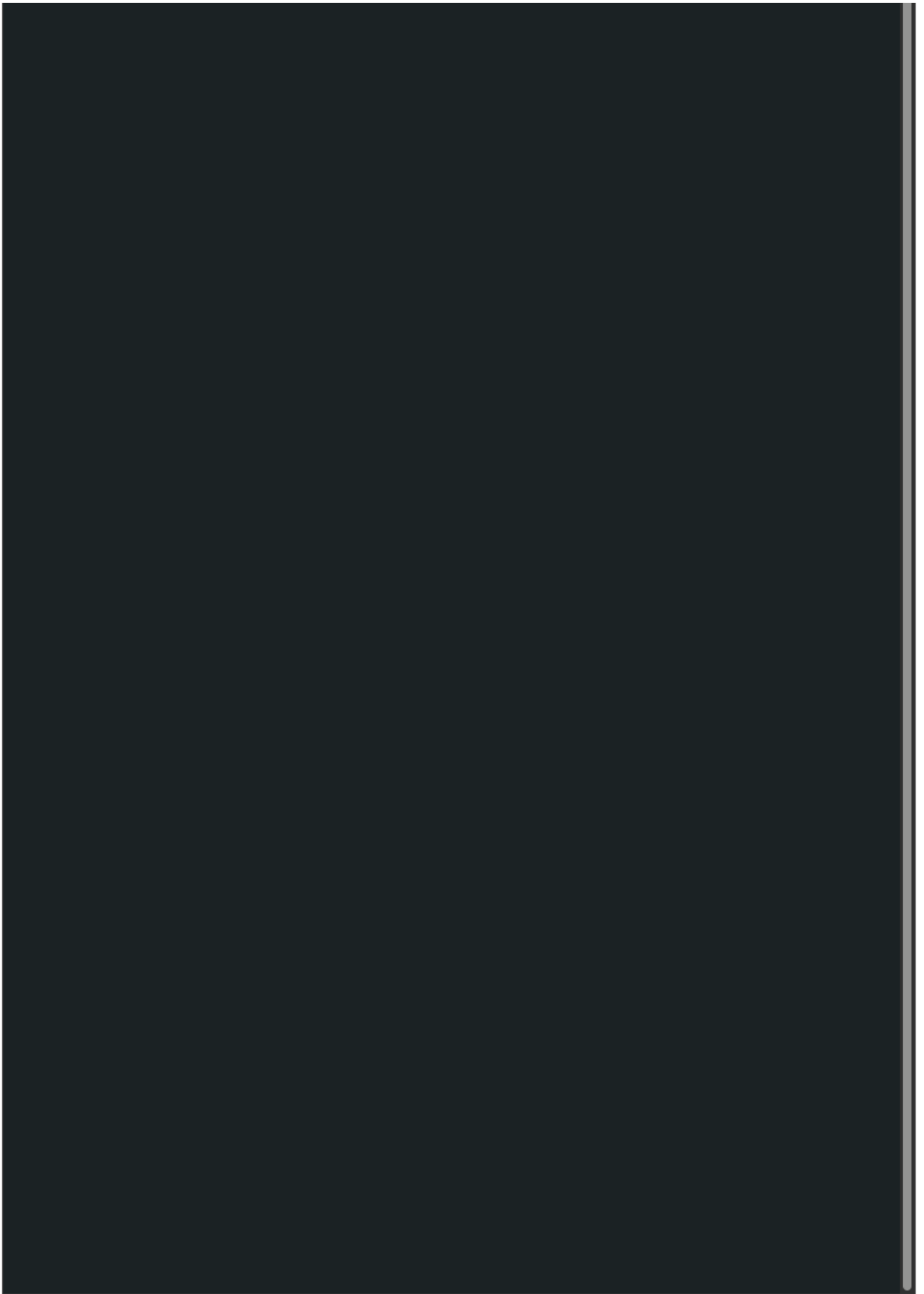


```
HOST=localhost PORT=8010 SERVER_NAME=chat1 bin/chatService
~/Work/Learning/COMP-4300/assignments/1/WeebChat A1 ?1 → make buildChatService
go build -o bin/chatService cmd/chat/chatService.go
~/Work/Learning/COMP-4300/assignments/1/WeebChat A1 ?1 → HOST=localhost PORT=8010 SERVER_NAME=chat1 bin/chatService
Setting up chat service on localhost:8010
```

Client 1



```
CHAT_URL=127.0.0.1:8010 USER_ID=user_client_1 USER_NAME=Kevin_client_1
~/Work/Learning/COMP-4300/assignments/1/WeebChat A1 ?1 → make buildChatClient
go build -o bin/chatClient cmd/client/chatClient.go
~/Work/Learning/COMP-4300/assignments/1/WeebChat A1 ?1 → CHAT_URL=127.0.0.1:8010 USER_ID=user_client_1 USER_NAME=Kevin_client_1 bin/chatClient
[No room]
```



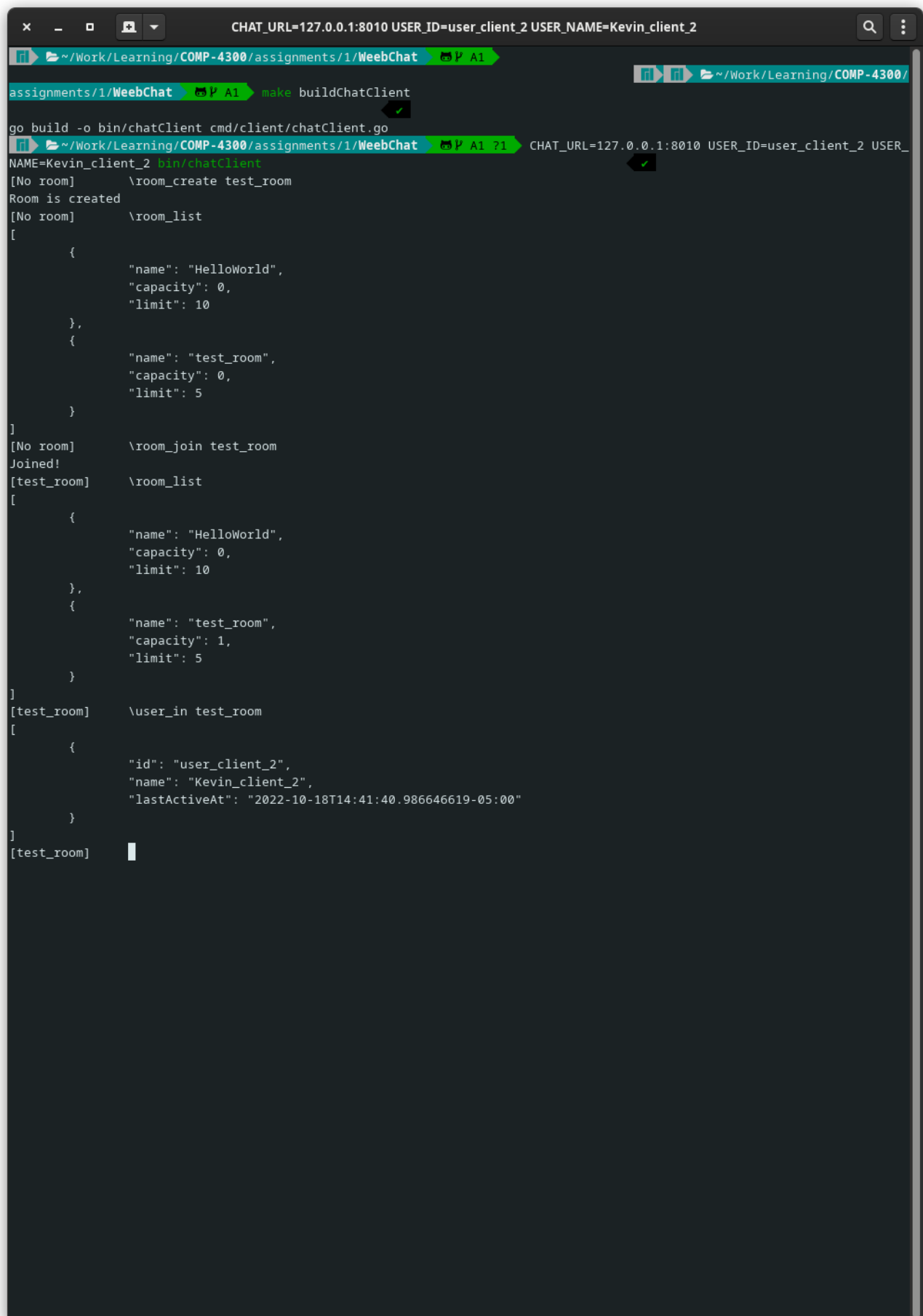
Client 2

```
CHAT_URL=127.0.0.1:8010 USER_ID=user_client_2 USER_NAME=Kevin_client_2

~/Work/Learning/COMP-4300/assignments/1/WeebChat A1
~/Work/Learning/COMP-4300/assignments/1/WeebChat A1 make buildChatClient
go build -o bin/chatClient cmd/client/chatClient.go
~/Work/Learning/COMP-4300/assignments/1/WeebChat A1 71 CHAT_URL=127.0.0.1:8010 USER_ID=user_client_2 USER_
NAME=Kevin_client_2 bin/chatClient
[No room]
```

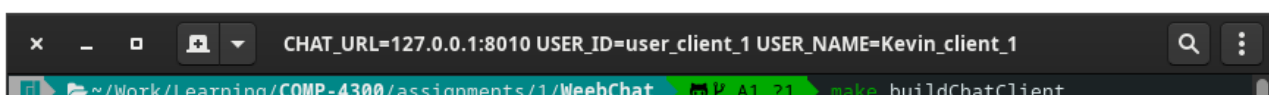
Functionality

- Client 2 creates room and join



```
CHAT_URL=127.0.0.1:8010 USER_ID=user_client_2 USER_NAME=Kevin_client_2
~/Work/Learning/COMP-4300/assignments/1/WeebChat A1
make buildChatClient
go build -o bin/chatClient cmd/client/chatClient.go
~/Work/Learning/COMP-4300/assignments/1/WeebChat A1 ?1 CHAT_URL=127.0.0.1:8010 USER_ID=user_client_2 USER_
NAME=Kevin_client_2 bin/chatClient
[No room] \room_create test_room
Room is created
[No room] \room_list
[
  {
    "name": "HelloWorld",
    "capacity": 0,
    "limit": 10
  },
  {
    "name": "test_room",
    "capacity": 0,
    "limit": 5
  }
]
[No room] \room_join test_room
Joined!
[test_room] \room_list
[
  {
    "name": "HelloWorld",
    "capacity": 0,
    "limit": 10
  },
  {
    "name": "test_room",
    "capacity": 1,
    "limit": 5
  }
]
[test_room] \user_in test_room
[
  {
    "id": "user_client_2",
    "name": "Kevin_client_2",
    "lastActiveAt": "2022-10-18T14:41:40.986646619-05:00"
  }
]
[test_room]
```

- Client 1 join room



```
CHAT_URL=127.0.0.1:8010 USER_ID=user_client_1 USER_NAME=Kevin_client_1
~/Work/Learning/COMP-4300/assignments/1/WeebChat A1 ?1 make buildChatClient
```

go build -o bin/chatClient cmd/client/chatClient.go

~/Work/Learning/COMP-4300/assignments/1/WeebChat P A1 ?1 CHAT_URL=127.0.0.1:8010 USER_ID=use

r_client_1 USER_NAME=Kevin_client_1 bin/chatClient

[No room] \room_list

```
[
  {
    "name": "HelloWorld",
    "capacity": 0,
    "limit": 10
  },
  {
    "name": "test_room",
    "capacity": 1,
    "limit": 5
  }
]
[No room] \user_in test_room
```

```
[
  {
    "id": "user_client_2",
    "name": "Kevin_client_2",
    "lastActiveAt": "2022-10-18T14:41:40.986646619-05:00"
  }
]
```

[No room] \room_join test_room

Joined!

[test_room] \user_in test_room

```
[
  {
    "id": "user_client_2",
    "name": "Kevin_client_2",
    "lastActiveAt": "2022-10-18T14:41:40.986646619-05:00"
  },
  {
    "id": "user_client_1",
    "name": "Kevin_client_1",
    "lastActiveAt": "2022-10-18T14:42:57.456507166-05:00"
  }
]
[test_room]
```

- Client 1 and Client 2 chat. Client 1 left the room

```

~/Work/Learning/COMP-4380/assignments/1/WeebChat P A T make buildChatClient
go build -o bin/chatClient cmd/client/chatClient.go
~/Work/Learning/COMP-4380/assignments/1/WeebChat P A T CHAT_URL=127.0.0.1:8010 USER_ID=user_client_1 USER_NAME=Kevin_client_1 bin/chatClient
[No room] \room_list
[
  {
    "name": "HelloWorld",
    "capacity": 0,
    "limit": 10
  },
  {
    "name": "test_room",
    "capacity": 1,
    "limit": 5
  }
]
[No room] \user_in test_room
[
  {
    "id": "user_client_2",
    "name": "Kevin_client_2",
    "lastActiveAt": "2022-10-18T14:41:40.986646619-05:00"
  }
]
[No room] \room_join test_room
Joined!
[test_room] \user_in test_room
[
  {
    "id": "user_client_2",
    "name": "Kevin_client_2",
    "lastActiveAt": "2022-10-18T14:41:40.986646619-05:00"
  },
  {
    "id": "user_client_1",
    "name": "Kevin_client_1",
    "lastActiveAt": "2022-10-18T14:42:57.456507166-05:00"
  }
]
[test_room] \message Hi client 2
[test_room] user_client_1: Hi client 2
[test_room] user_client_2: Nice to meet you client 1
\message Im out now
[test_room]
[test_room] user_client_1: Im out now
\room_leave test_room
User left room
[No room] \user_in test_room
[
  {
    "id": "user_client_2",
    "name": "Kevin_client_2",
    "lastActiveAt": "2022-10-18T14:44:28.76604567-05:00"
  }
]
[No room]

~/Work/Learning/COMP-4380/assignments/1/WeebChat P A T make buildChatClient
go build -o bin/chatClient cmd/client/chatClient.go
~/Work/Learning/COMP-4380/assignments/1/WeebChat P A T CHAT_URL=127.0.0.1:8010 USER_ID=user_client_2 USER_NAME=Kevin_client_2 bin/chatClient
[No room] \room_create test_room
Room is created
[No room] \room_list
[
  {
    "name": "HelloWorld",
    "capacity": 0,
    "limit": 10
  },
  {
    "name": "test_room",
    "capacity": 0,
    "limit": 5
  }
]
[No room] \room_join test_room
Joined!
[test_room] \room_list
[
  {
    "name": "HelloWorld",
    "capacity": 0,
    "limit": 10
  },
  {
    "name": "test_room",
    "capacity": 1,
    "limit": 5
  }
]
[test_room] \user_in test_room
[
  {
    "id": "user_client_2",
    "name": "Kevin_client_2",
    "lastActiveAt": "2022-10-18T14:41:40.986646619-05:00"
  }
]
[test_room] user_client_1: Hi client 2
[test_room] \message Nice to meet you client 1
[test_room] user_client_2: Nice to meet you client 1
[test_room] user_client_1: Im out now
\user_in test_room
[
  {
    "id": "user_client_2",
    "name": "Kevin_client_2",
    "lastActiveAt": "2022-10-18T14:44:28.76604567-05:00"
  }
]
[test_room] \message Client 1 should not see this. This is secret
[test_room]
[test_room] user_client_2: Client 1 should not see this. This is secret

```

Postman Test

I also include my Postman collection that I used to test the server. You can run and use it to test as well