Interoperability Testing with Group 29

Author: Nathan Dang

Pre-testing:

1. Set up connection so that your server can connect to the target server
2. Run 2 servers
3. Run 2 clients (one on each server)

Testing:

	Process	Expected behavior	Result (Pass / Fail / Unsure)	Comment
1	server_hello	The traffic is captured at the server	Failed	Error: websockets.legacy.exceptions.InvalidStatusCode: server rejected WebSocket connection: HTTP 400 (shown below in figure 1) The connection was rejected by the server, meaning a connection couldn't be established
2	client_update_request	A client list is sent back to the server.	Unsure	Can't be tested as the servers cannot connect
3	Sending message (chat or public_chat) from clients.	The message successfully appears in the correct format at target client (s).	Unsure	Can't be tested as the servers cannot connect
4	Updated online users	When a new user connects or a user disconnect in the distant server, the clients list on left-hand side menu is updated.	Unsure	Can't be tested as the servers cannot connect

Figure 1:


```
Task exception was never retrieved
future: <Task finished name='Task-2' coro=<init_server_connection() done, defined at /Users/nathandang/Downloads/SecProg/server/server.py:65> exception=
lidStatusCode(400, Headers([('Content-Type', 'text/html; charset=utf-8'), ('Content-Length', '167'), ('Date', 'Fri, 18 Oct 2024 07:27:42 GMT')]))>
Traceback (most recent call last):
  File "/Users/nathandang/Downloads/SecProg/server/server.py", line 67, in init_server_connection
    async with websockets.connect(distant_address, ping_interval=10) as server_websocket:
  File "/Library/Frameworks/Python.framework/Versions/3.12/lib/python3.12/site-packages/websockets/legacy/client.py", line 635, in __aenter__
    return await self
           ^^^^^^^^^^^
  File "/Library/Frameworks/Python.framework/Versions/3.12/lib/python3.12/site-packages/websockets/legacy/client.py", line 656, in __await_impl__
    await protocol.handshake(
  File "/Library/Frameworks/Python.framework/Versions/3.12/lib/python3.12/site-packages/websockets/legacy/client.py", line 322, in handshake
    raise InvalidStatusCode(status_code, response_headers)
websockets.legacy.exceptions.InvalidStatusCode: server rejected WebSocket connection: HTTP 400
```