Chatting with Web Sockets

Lecture Question

Task: Write a Web Socket Server for Direct Messages (DMs)

Due Sunday Night. Worth 20 points

In a package named server, write a class named DMServer that:

- When created, sets up a web socket server listening for connections on localhost:8080
- Listens for messages of type "register" containing a username as a String (Use data structures to remember which socket belongs to which username)
- Listens for messages of type "direct_message" containing a JSON string in the format {"to":"username", "message":"text"}. When such a message is received:
  - Send a message of type "dm" to the "to" username containing a JSON string in the format {"from":"username", "message":"text"}
- Example: If 2 different users connect to the server and send:
  - emit("register", "Aesop") and emit("register", "Rob")
  - User "Aesop" sends emit("direct_message", '{"to": "Rob", "message": "Happy to be on the food chain at all"}')
- User "Rob" will receive a message from the server of type "dm" containing the string '{"from": "Aesop", "message": "Happy to be on the food chain at all"}'

Chat Demo

- Live demo and walkthrough of the chat app code
  - week8.chat package in the examples repo

Lecture Question

Task: Write a Web Socket Server for Direct Messages (DMs)

Due Sunday Night. Worth 20 points

In a package named server, write a class named DMServer that:

- When created, sets up a web socket server listening for connections on localhost:8080
- Listens for messages of type "register" containing a username as a String (Use data structures to remember which socket belongs to which username)
- Listens for messages of type "direct_message" containing a JSON string in the format {"to":"username", "message":"text"}. When such a message is received:
  - Send a message of type "dm" to the "to" username containing a JSON string in the format {"from":"username", "message":"text"}

- Example: If 2 different users connect to the server and send:
  - emit("register", "Aesop") and emit("register", "Rob")
  - User "Aesop" sends emit("direct_message", '{"to": "Rob", "message": "Happy to be on the food chain at all"}')
- User "Rob" will receive a message from the server of type "dm" containing the string '{"from": "Aesop", "message": "Happy to be on the food chain at all"}'