Chatting with Web Sockets

Lecture Question

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

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" only to the socket of 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

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 - 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"}'