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Network Programming
SLU Chat

Client

- Name
- ID
- + sendMessage(data, chatId) - sends a message to the server
- + fetchMessages(chatId) - gets messages from server for a given chat
- + fetchGroupchats() - gets messages from server for a group chat
- + addContact(name, userId) - adds a contact to a user's friend list

ChatDisplay (front end component to display the chat history)

- messageList

GroupsDisplay (front end component to display groups you are a member of)

- groupList

UserRegistration

- + passwordValid() : Bool - checks if a password input is valid for verification
- + registerUser(name, password) - registers a user with a given name and password

WebRTC

Server

- + createUser(name, password) - creates a new user
- + createChat(userList) - creates a new chat
- + addMessageToChat(data, chatID, senderID) - adds a message to a selected chat
- + addUserToChat(newUserId, chatId) - adds a user to a selected chat
- + removeUserFromChat(userId, chatId) - removes a user from a selected chat

Database

Groupchats

- ID
- userList

Users

- ID
- name
- password
- contactList

Messages

- chatId
- userId
- timestamp
- Data