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**WebSocket Communications Program**

**Introduction**

This WebSocket based application is used to connect different users and devices that are connected to the same network to perform basic communications with each other. The application requires some set up before being able to be run properly. The project is hosted via the hosting program, render, and the database is handled by AWS. This allows the program to be accessed anywhere the user would have access to the internet, allowing long-distance, seamless communications. The GitHub for this application is <https://github.com/xevanx2002/CPSC-455-Project-1>.

**Using the program**

With the program being remotely hosted, there is no need to go through steps to start the program or the database for access and use. By accessing the webpage through the URL <https://securechatproject.onrender.com/#> , users will be able to start their application use. From the starting page, the user will be greeted with a log in page before accessing any of the chatting functionality. The user can use their account if previously made or they can create a new account with a new username and password. Once logged in, the user will be prompted to enter the username of the person they wish to converse with. This will either place them within the chat room previously had with that user including all the previous messages sent back and forth or create a whole new chat page for them. Within the page the user will be able to see if the other user is online or offline from the top of the page and is able to send messages regardless of their status. Within the chat page the user can click on the message bar to craft their unique message to send, or they can choose to send files back and forth to each other. From there the user can either disconnect or reconnect to the session.

Overall, with the newly integrated service hosting, accessing the application has never been easier for the users as they no longer have to worry about running the application within their own machine or edit any files to access the program.