

COMP3133 Lab Test One

Tyler O'Neil

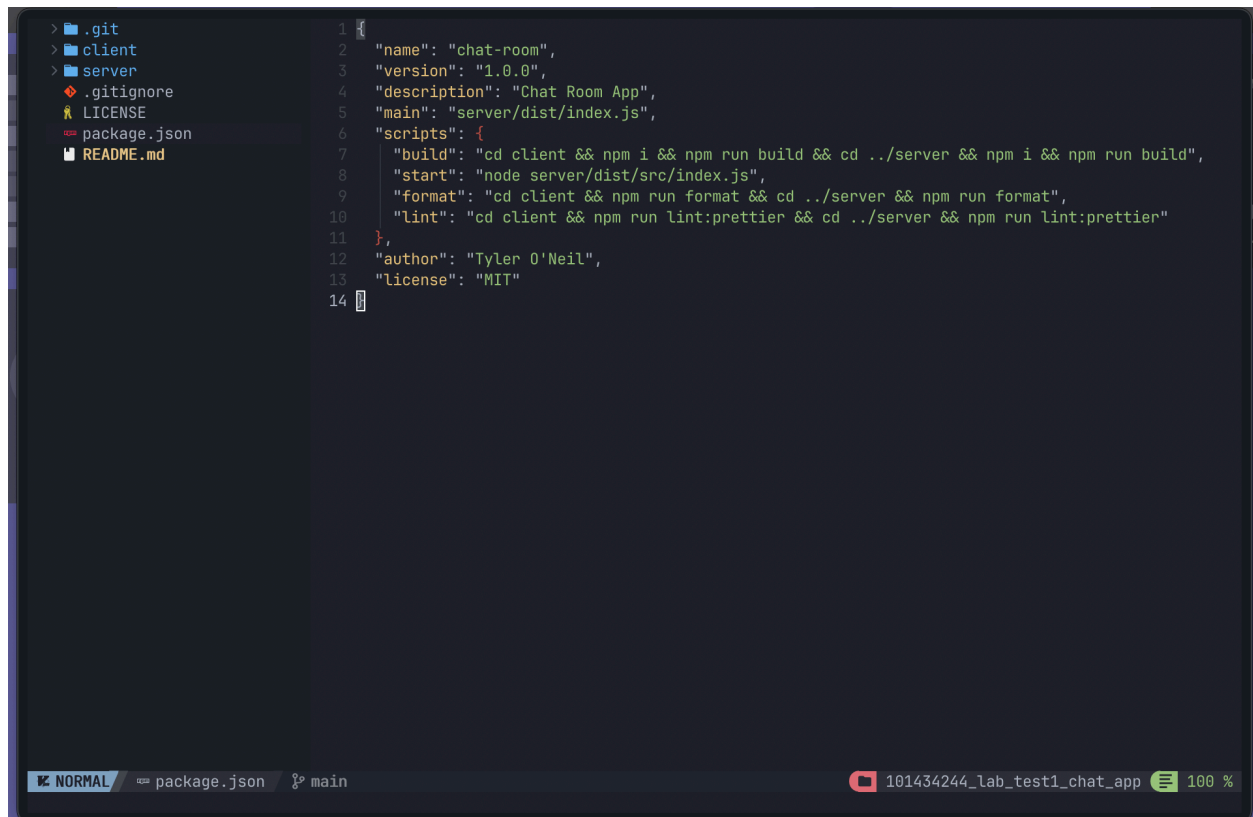
101434244

GitHub: https://github.com/tyleroneil72/101434244_lab_test1_chat_app

Note: Instead of HTML, Bootstrap, and jQuery, I used React, Typescript, and Tailwind CSS.
All requirements for assignment met.

1. GitHub Repo
 - a. Git used with useful commit log, proper headings (chore, feature, etc)
2. Working Signup Page
 - a. Username must be unique checked from database
3. Working Login/Logout
 - a. Using Local Storage for session
4. MongoDB Validation
 - a. Proper validation on all schemas, cannot crash
5. Room Join/Leave
 - a. You can join and leave rooms by selecting them from the sidebar
6. Typing Indicator
 - a. Typing indicator works on 1-1 messaging
7. Chat Functionality with MongoDB Storage
 - a. All messages are persisted in Mongo

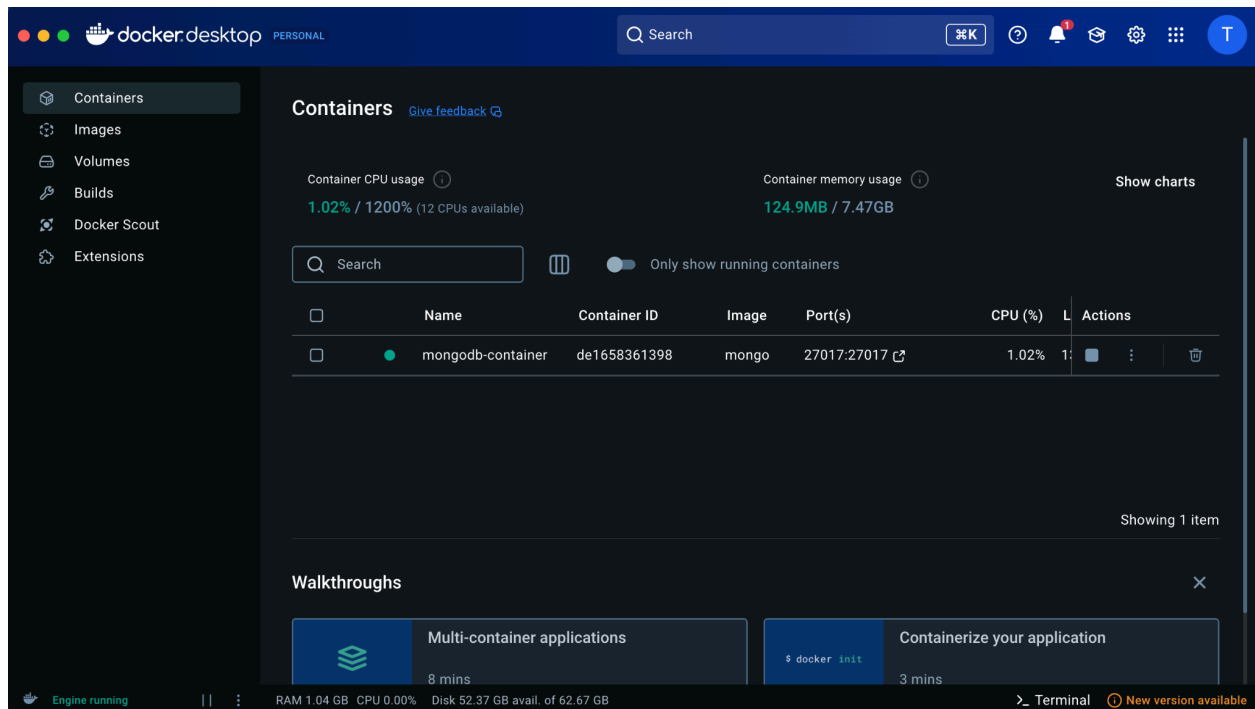
Package.json, to run locally follow README Instructions



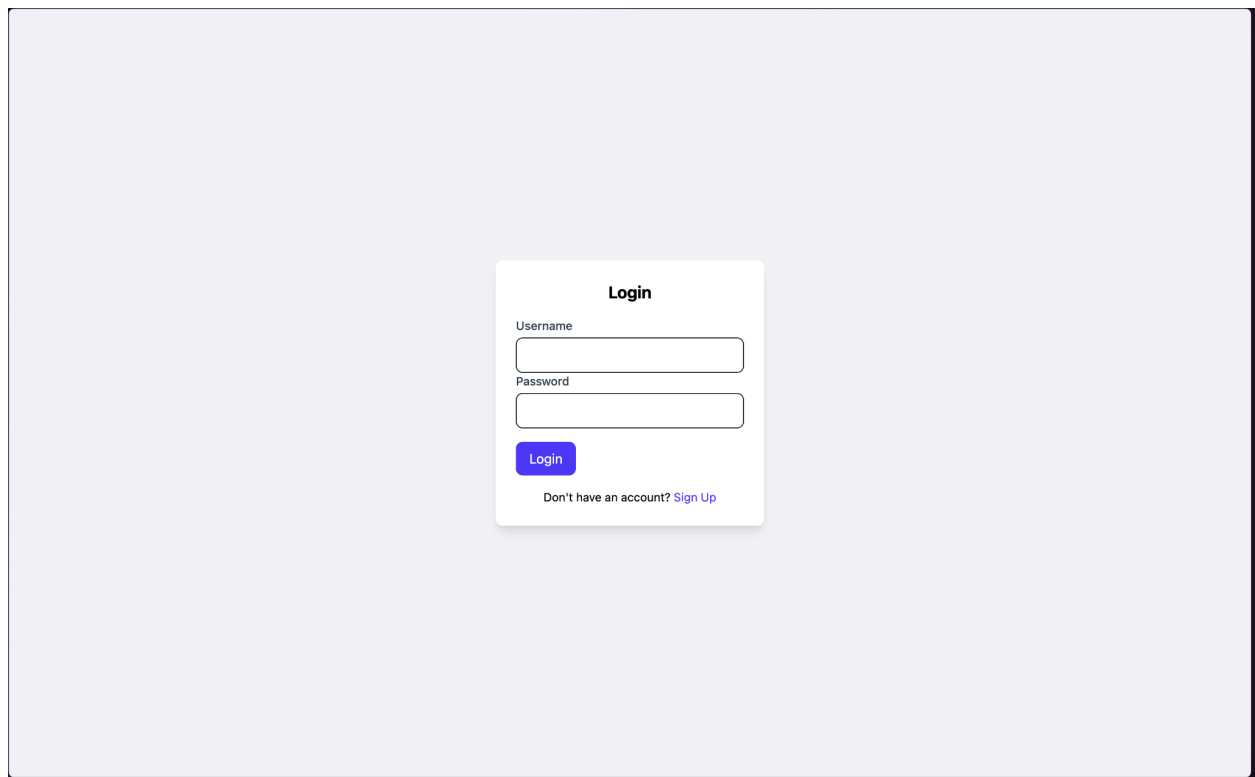
```
1 {
2   "name": "chat-room",
3   "version": "1.0.0",
4   "description": "Chat Room App",
5   "main": "server/dist/index.js",
6   "scripts": {
7     "build": "cd client && npm i && npm run build && cd ../server && npm i && npm run build",
8     "start": "node server/dist/src/index.js",
9     "format": "cd client && npm run format && cd ../server && npm run format",
10    "lint": "cd client && npm run lint:prettier && cd ../server && npm run lint:prettier"
11  },
12   "author": "Tyler O'Neil",
13   "license": "MIT"
14 }
```

The screenshot shows a code editor with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with files like .git, client, server, .gitignore, LICENSE, package.json, and README.md. The code editor displays the content of package.json, which is a JSON object containing project metadata and scripts. The scripts section defines build, start, format, and lint commands. The bottom status bar shows the current file is package.json, the editor is in NORMAL mode, and the file encoding is UTF-8.

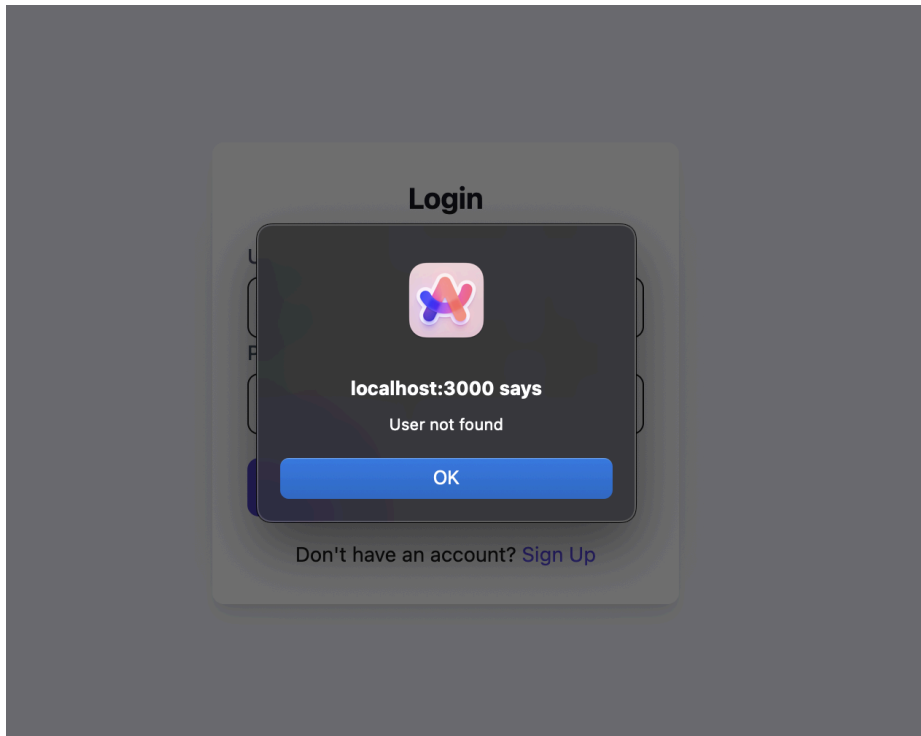
DB Running



Login Page



Login Validation



Sign Up Page

Sign Up

First Name

Last Name

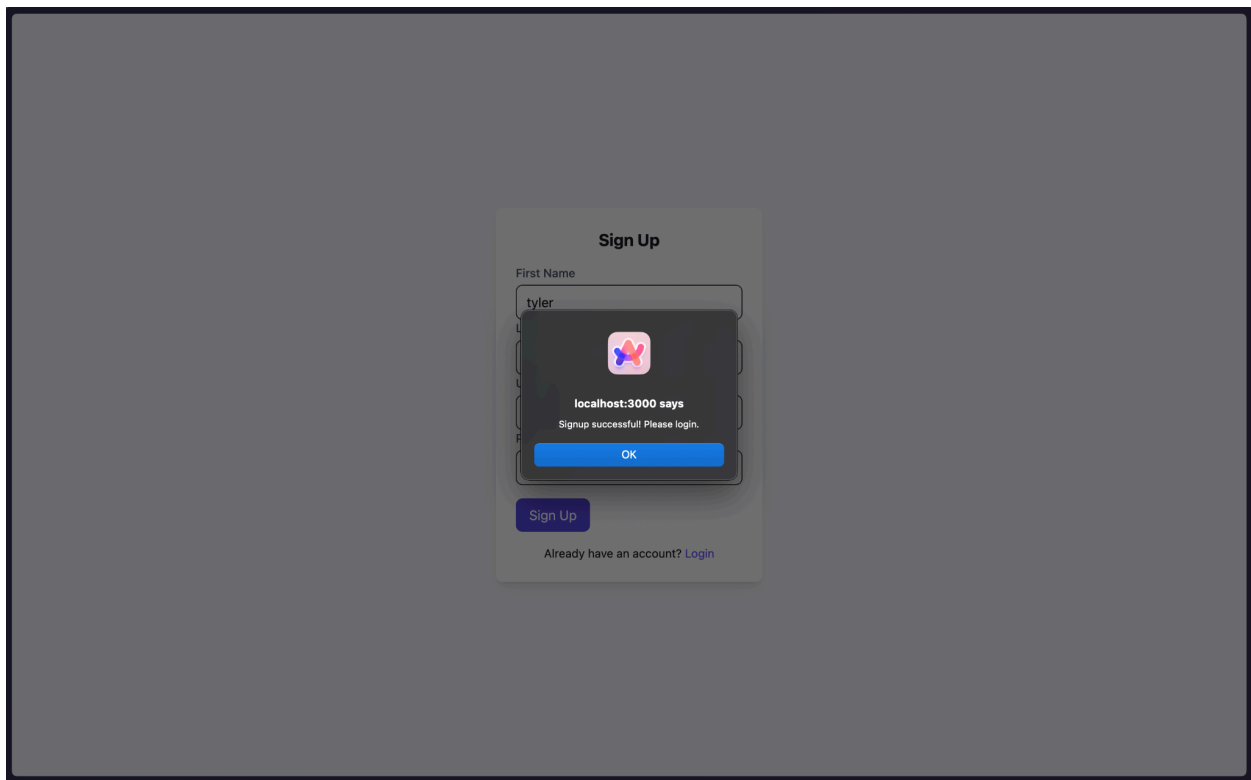
Username

Password

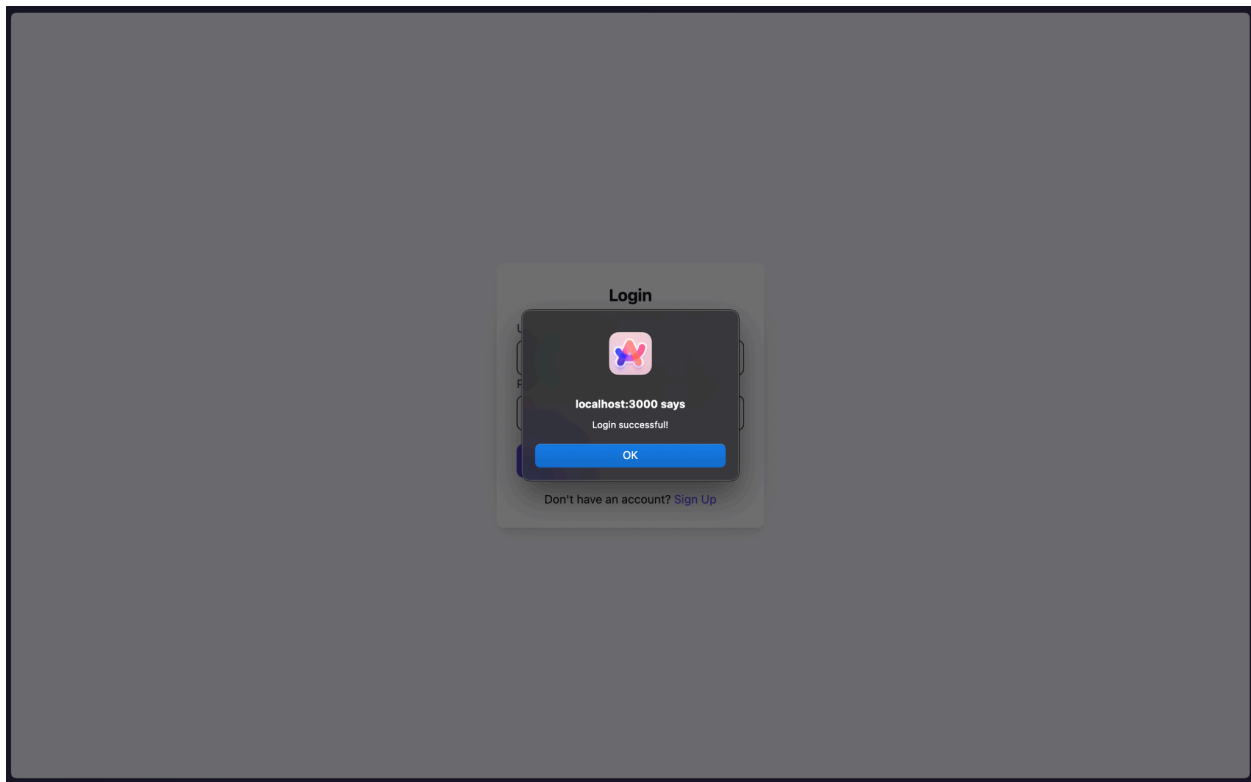
[Sign Up](#)

Already have an account? [Login](#)

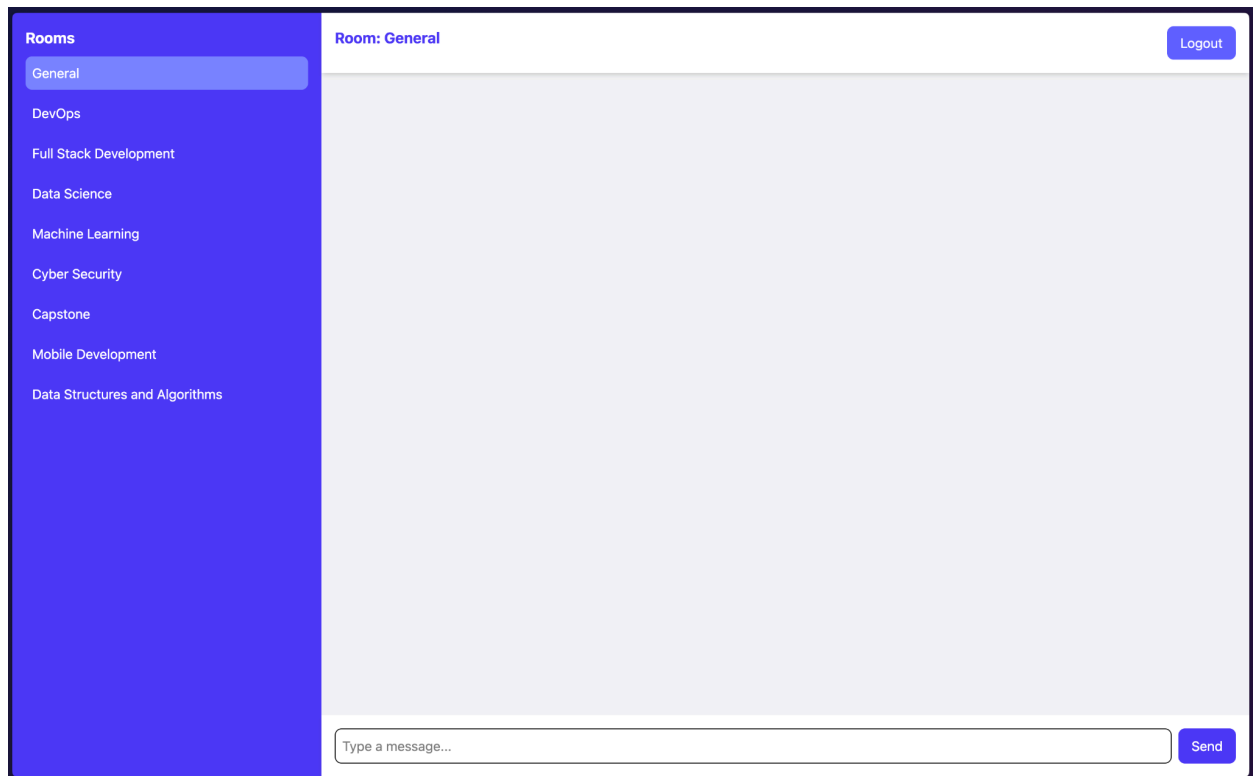
Sign Up Success



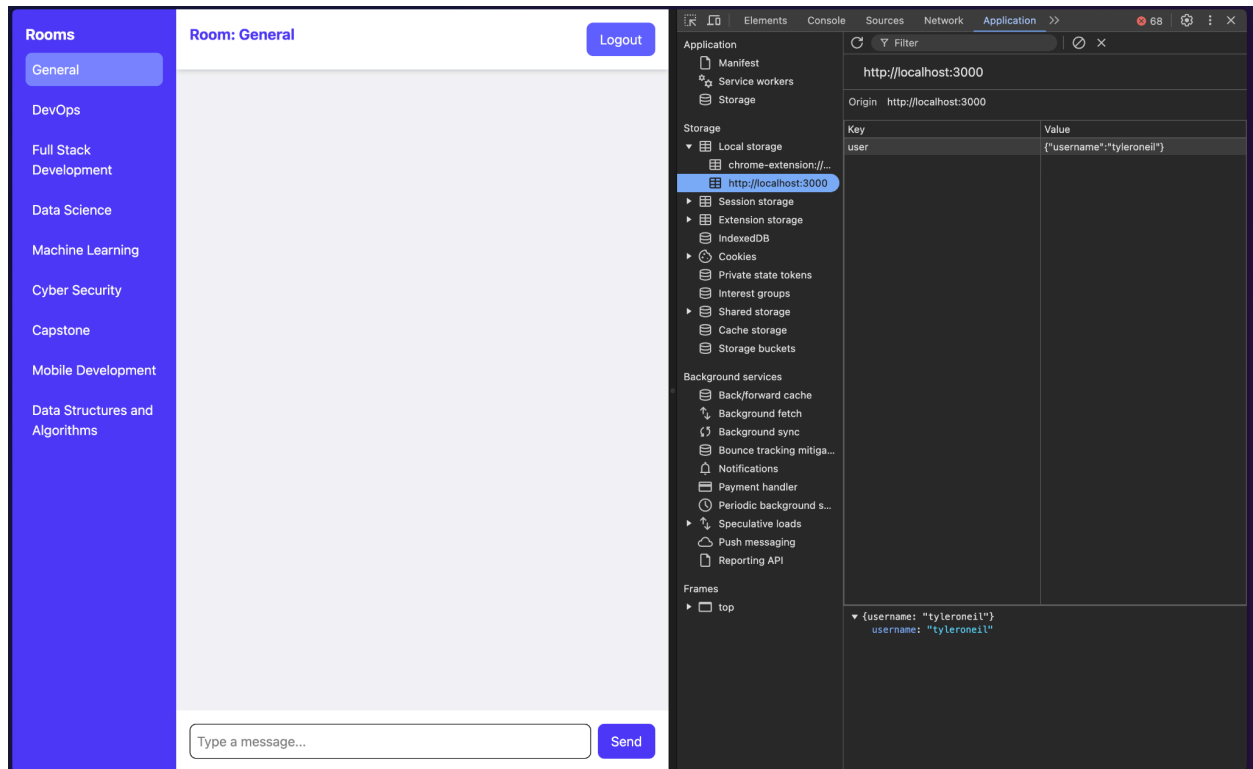
Login Success



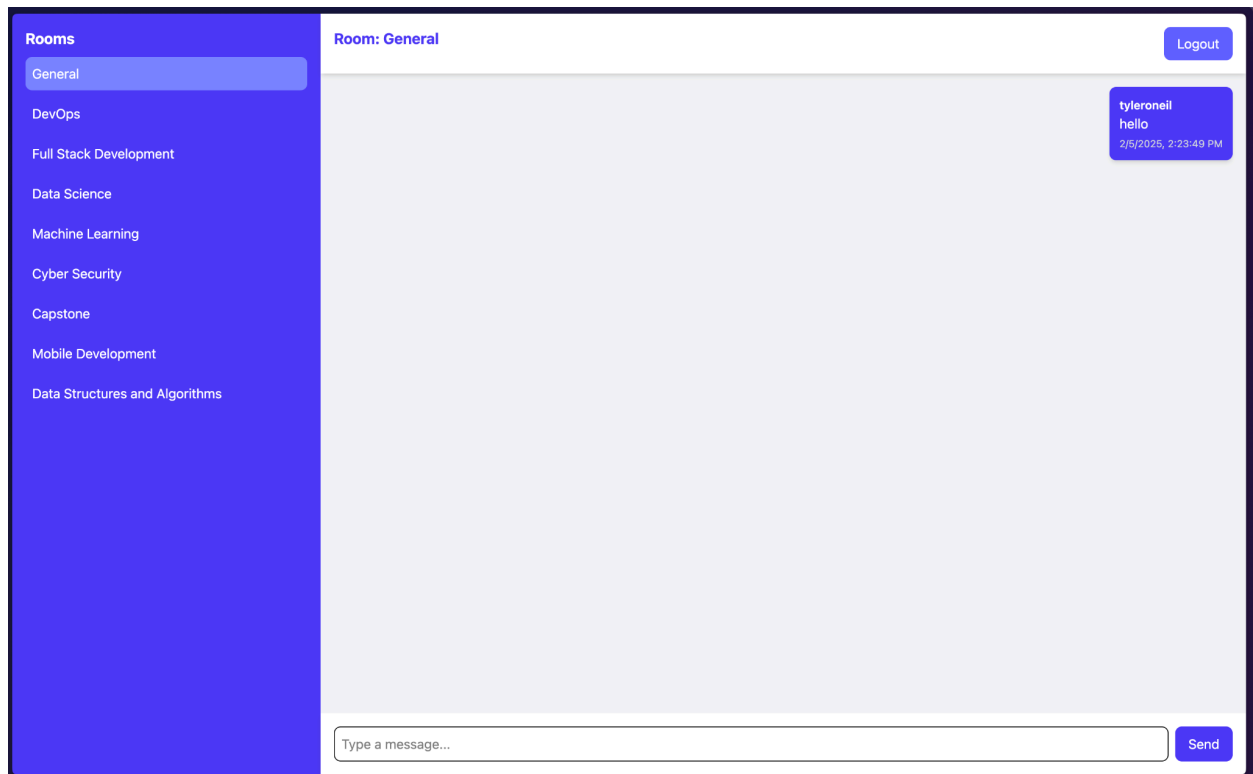
Main ChatRoom Page



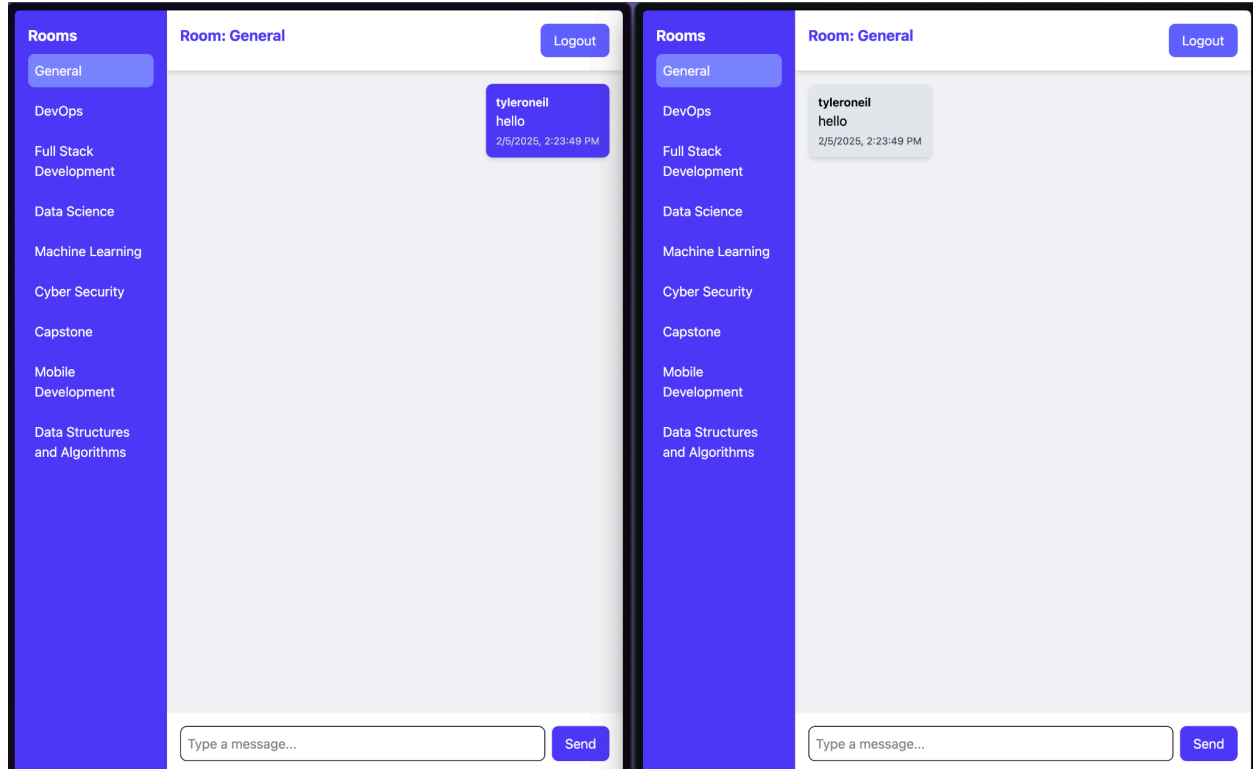
Local Storage User Stored



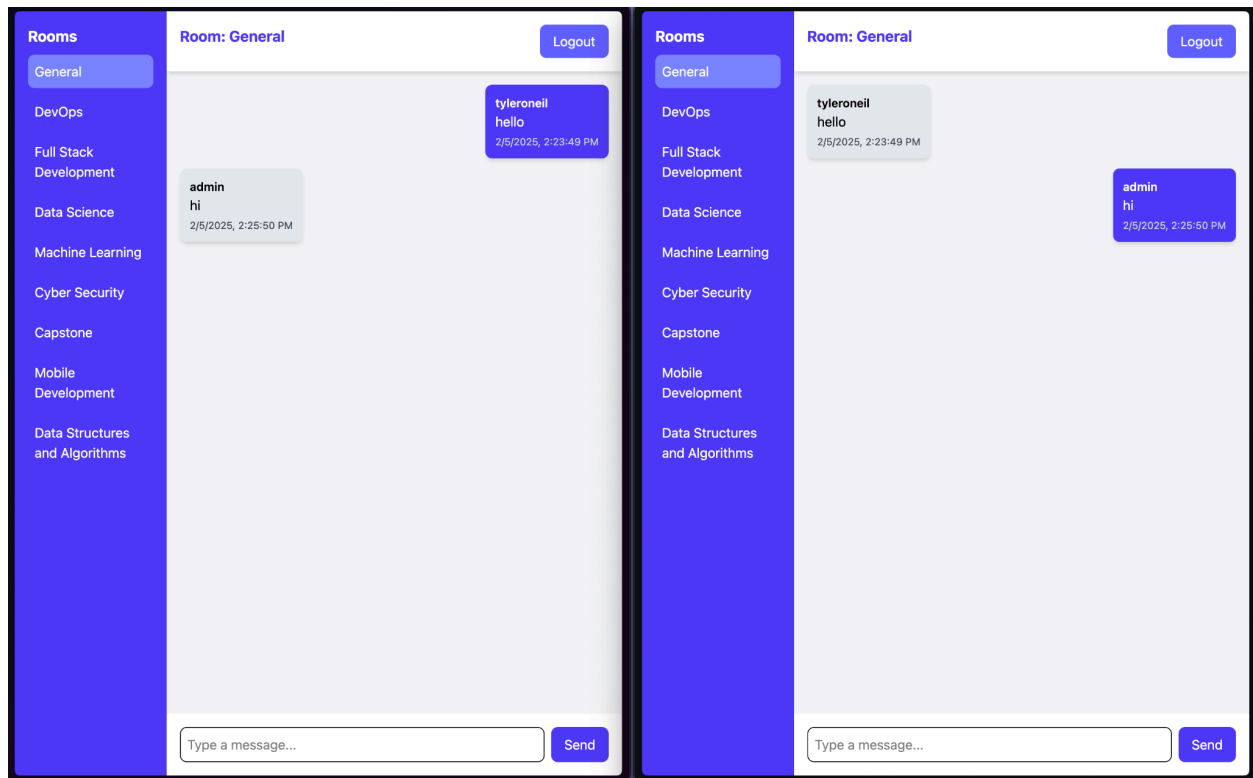
Message Sent



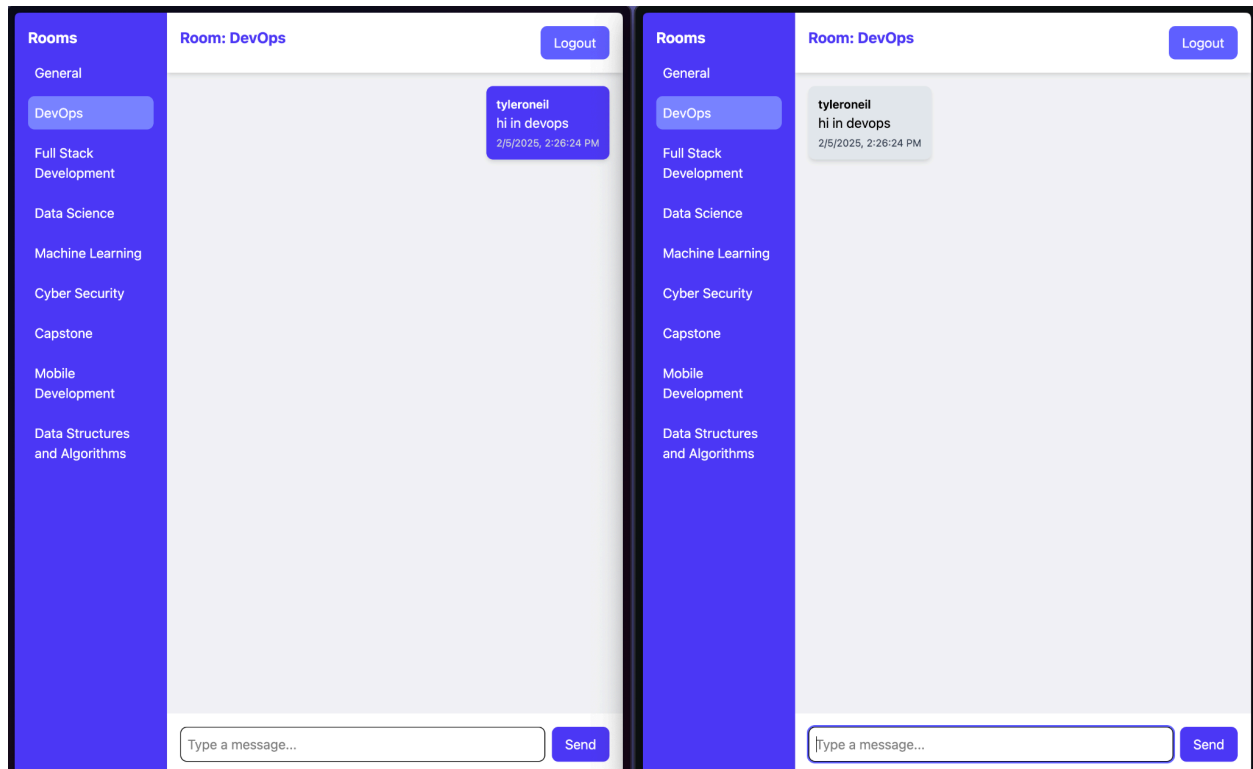
Chat side by side with other browser



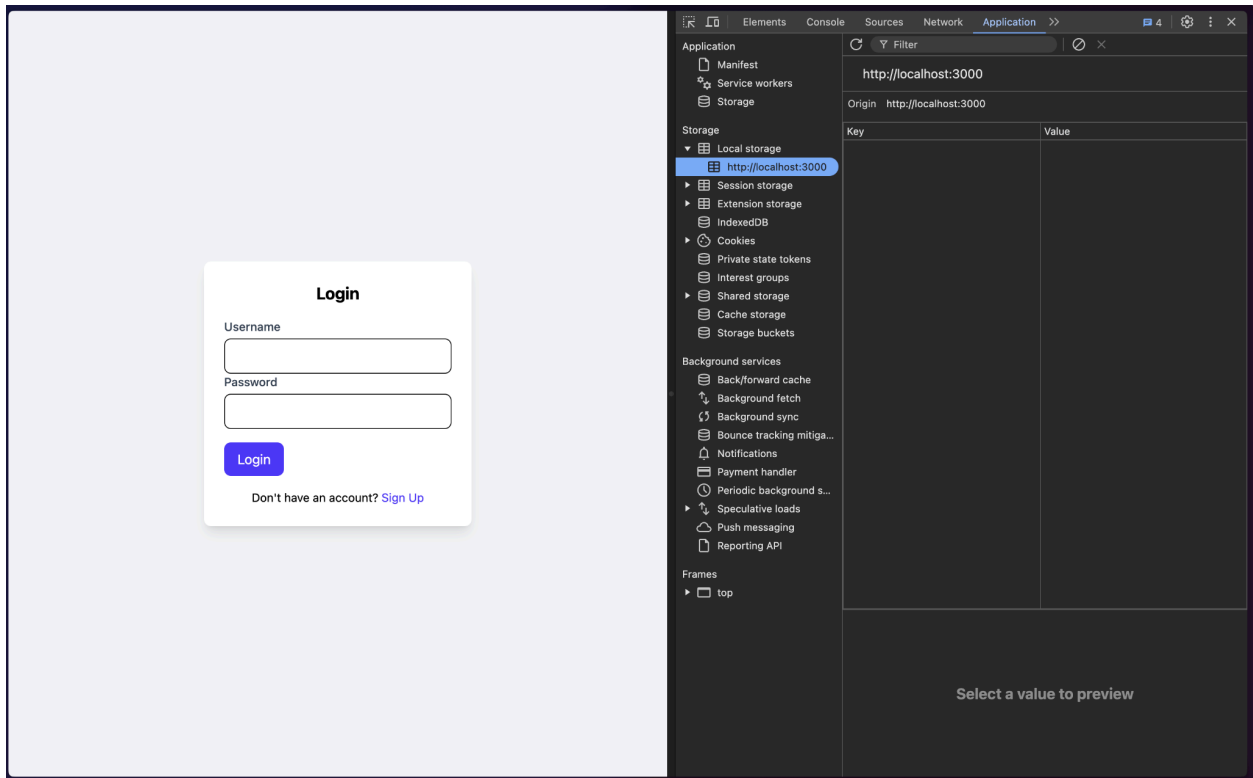
Chat respond to user



Join Different Room

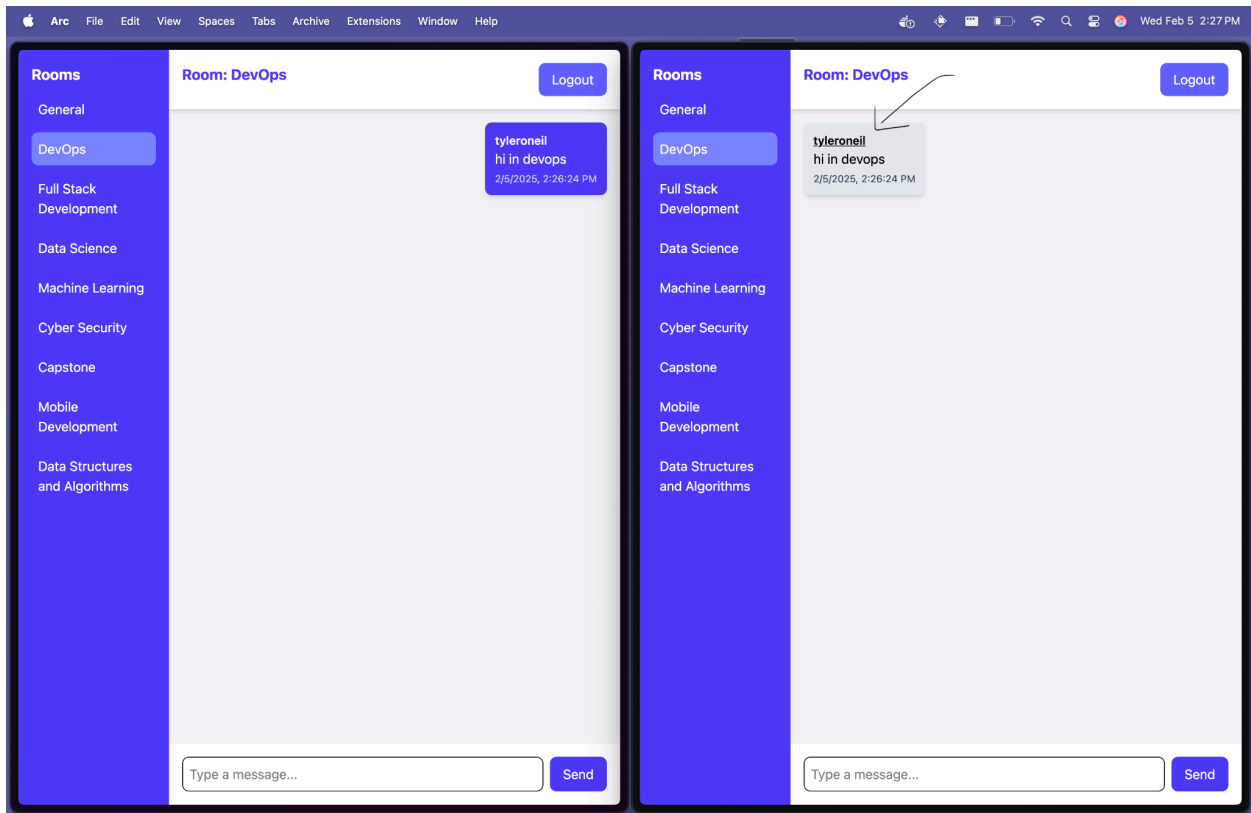


Logging out clears the local storage

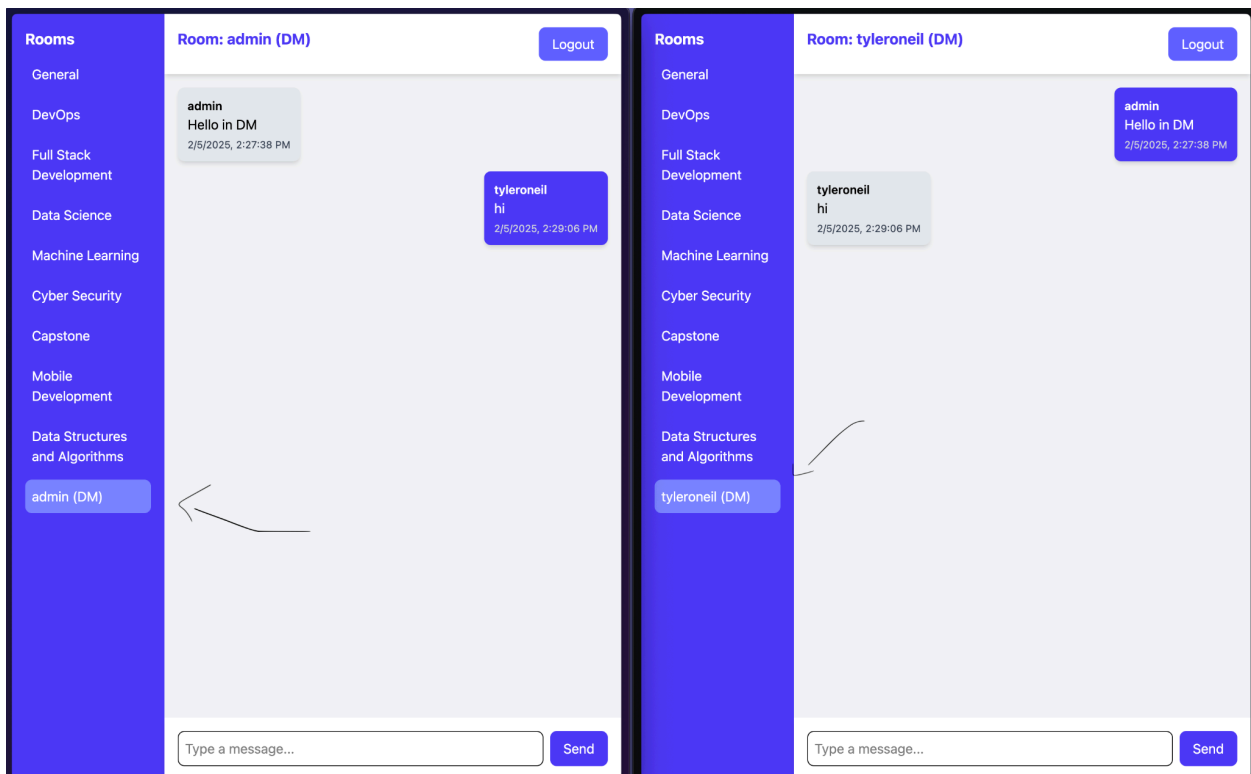


DM Feature:

When you hover over user it shows a clickable link under the username (See Arrow)



This creates a new private DM 1 to 1 message between the two users (See arrow)



Inside of these rooms there is a typing indicator that appears, not in public rooms, just dms
It cycles through (.)

