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Lab 5
CSE 121 Spring 2023
Due 5/18/23

I did not use ChatGPT at all to complete this lab. Rather, I used code from my previous labs for reading the onboard temperature and humidity sensor data. I also worked off of example code from the official esp-idf repository as well as referring to the documentation for establishing the wifi connection between the esp32 and my phone's hotspot, and for performing the HTTP requests and TLS handling. However, for creating the web server on my iPhone that handles GET and POST requests, I did find a Python implementation online that I worked off of, which has an open-source MIT license.

References

- Article for setting up iPhone web server: [How to Run a Simple Web Server on iPhone \(2022\) | Beebom](#)
- Python web server script with MIT license (modified for custom usage): [Simple Python 3 HTTP server for logging all GET and POST requests · GitHub](#)
- ESP32 WiFi documentation: [Wi-Fi - ESP32-C3 - — ESP-IDF Programming Guide latest documentation](#)
- ESP32 protocols documentation (for TLS, HTTP): [Application Protocols - ESP32-C3 - — ESP-IDF Programming Guide latest documentation](#)
- Esp-IDF examples repository folder (for WiFi, HTTP, TLS): <https://github.com/espressif/esp-idf/tree/54576b7528b182256c027de86eb605a172bc2821/examples>