Network Documentation

**Client-Server Network**

**Summary:**

This feature will connect our database to the ECE team’s product, and allow data from their readings to be sent to and stored within our database. It uses a TLS connection, which is appropriately secure for hospital standards.

**Relevant Files:**

* cert.pem: This PEM file contains the certificate (public key) required for accessing the client-server network through transport layer security protocols.
* key.pem: This PEM file holds the private key necessary for accessing the client-server network via transport layer security protocols.
* tls\_client.py: This Python file establishes a secure TLS connection to a server and facilitates data exchange using Python's socket and SSL modules.
* tls\_server.py: This Python file establishes a secure SSL/TLS encryption server, which awaits incoming connections over TLS, accepts data from clients, and sends responses back to them.

**Process:**

This program is only outlined right now, as we do not have information on how exactly the ECE team’s program will function. For now, the program only provides a basic TLS connection using a public certificate and a private key. More information will be provided on this section as we continue development.

**Team Members:** Lauren Twist, Kierra Young