Team GR IoT Data Aggregation Project

Connection A (SSL)

- Sensor data gets sent from each facility to its corresponding table

- Upon request, a facility's mailing list gets retrieved from its corresponding table

- Note that the tables for each facility are grouped by facility-specific schemas

Connection B (SSL)

- User credentials get sent from the API Users table to the API for verification

- Queried sensor data from the specified facilities gets sent from each facility's Data Table to the API for formatting

Connection C (HTTPS)

- Username and password gets sent from the user to the API for login

- An API token gets sent from the API to the user upon successful login

- A query gets sent from the user to the API along w/ a valid API token

- Formatted sensor data gets returned to the user from the API

Input

Facility 1

Facility 2

Facility n

A

A

A

Facility-Specific Schema

API Users

PK	Employee ID
	Username
	Password (bcrypt)
	Login Timestamp

B

Database API

User

C

Output

Sensor Data (Facility k)

PK,FK1	Device UUID
PK,FK2	Timestamp
	Temperature (°C)
	Humidity (%RH)

Mailing List (Facility k)

PK	Employee ID
	First Name
	Last Name
	Email

Storage