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CECS 327

05 May 2025

Assignment 8 Report

Our project queries the client to select one of the required functions from a menu. From there, the host server will be assigned a port number and connect to the client server. Once the connection is established, the program will connect to the database through various methods depending on which menu selection was selected. Our program uses the “pool” functions of the “psycopg2” library to establish these connections and process the data to the desired effect. We are also using the data structure “DataFrames” from the panda library to handle the table in our sum function.

IoT provides a great opportunity to shape the functions of our everyday objects. Because of the vast swathes of data that are generated by the various sensors available, those with the ability to process that data have an advantage in tailoring the efficiency of our appliances in previously unforeseen ways. This project highlights the customization and oversight that IoT can provide.

The only aspect of Dataniz metadata that seemed applicable was the coordinates since that changes the time zone of the time stamps being sent to the tables. Other than that, we did not really need to utilize the metadata being generated from Dataniz.

Troubleshooting the access protocols of the VMs was one of the biggest issues. Once we got on the same page of tuning the VPC rules as well as the firewall rules within the VMs, we were able to connect and finish the project.

As far as feedback for Dataniz, there could be a little more QC with the UI. Making the sensors was a little difficult as it was not clear what was wanted from certain boxes. For example, I was unable to create a custom sensor after seeing that there were no explicit Ammeters in the program. Also, when duplicating devices, I feel like there should be a better naming convention for the new device.