***USE CASE ANALYSIS: Portfolio task 1.***

Primary Actor: USER

Goal in context: Technician reads temperature and humidity data from screen

Scope: Sensor monitoring software

Stakeholders and Interests: Technician to get information required.

Owning company to ensure building correctly monitored in timely manner.

Level: user goal

Preconditions: System is functional and awaiting interaction.

Success Guarantees: Correct temperature and humidity readings printed on screen for technician to read.

Trigger: Technician selects 1 or 2 on screen to retrieve temperature or humidity readings(resp).

Main success scenario:

1. Technician requests 10 Temp. or Humidity readings from screen.
2. If temperature reading, microcontroller triggers temperature reading at predetermined intervals.
3. If humidity reading microcontroller triggers humidity reading at predetermined intervals.
4. Temperature reading is stored in IotDataQ until 10 readings stored.
5. Humidity reading is stored in IotDataQ until 10 readings stored.
6. When number of readings inTemp. DataQ reaches 10, the readings are sent to the terminal screen and temp.DataQ memory is cleared.
7. The technician reads the 10 temperature readings from the screen presses accept button if everything looks ok.
8. When number of readings in Humidity. DataQ reaches 10, the readings are sent to the terminal screen and humidity.DataQ memory is cleared.
9. The technician reads the 10 humidity readings from the screen and presses accept button if everything looks ok.

Extensions: System is faulty. No readings returned on technician’s request.

Frequency of use: 1 per hour

Priority: 1