Weekly Journal Progress

# November 10th – 17th :

## Monday, November 11th :

Learned more about Git. Mainly how to use Git Bash and how console commands work with Git.  
  
Website used: <https://www.geeksforgeeks.org/working-on-git-bash/>   
[**https://www.datacamp.com/tutorial/git-push-pull**](https://www.datacamp.com/tutorial/git-push-pull)

## Wednesday, November 13th :

Watched a video on Python, how to use python scripts:

<https://www.youtube.com/watch?v=dQlw1Cdd3pw&pp=ygUYaG93IHRvIGRvIHB5dGhvbiBzY3JpcHRz>

Asked ChatGPT to give me some examples of scripts that can be run using python and what would we use for a humidity sensor project.

## Saturday, November 16th :

Looking at Nginx and how we will use it to visualize our presentation. Mainly analyzing how we can mix it with HTML.  
  
Links used: <https://nginx.org/en/>

<https://www.youtube.com/watch?v=q0tSIv22rgA>

# November 18th – 24th :

## Monday, November 18th :

I used ChatGPT to give me some more insight on our sensors and what model would be perfect for our constrained budgets and lack of expertise in finding material for Tuesday.

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A screenshot of a black screen

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## Tuesday, November 19th:

After the morning class, my partners and I went to search for the parts required to build our project. We found the sensor we wanted to purchase as well as a few other equipments like a board and wires to make sure we can have our project work.

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This is the sensor we bought: The SENS-SCD41 Gas Sensor. As for why I did not go with the options that ChatGPT brought forward is because after discussing it with my teammates, we realized that either the options were too expensive or too niche for the project we wanted to build.

Link to the ABRA website where we purchased it: <https://abra-electronics.com/sensors/sensors-gas/scd40-scd41-gas-sensor-module.html>

## Wednesday, November 20th :

After purchasing the pieces with my teammates, I decided to go ask ChatGPT, if there were any constraints or eventual problems that could arise with a python scripts and the sensor chosen.

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A screenshot of a computer program

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I also asked it to see with these probable errors if it can make us a basic python script and it came up with this.  
A screenshot of a computer program

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## Thursday, November 21st :

I went online to search for videos on how to install sensors and how to link it with a raspberry pi. Although I did not find what I was looking for exactly, here is what I watched:  
  
<https://www.youtube.com/watch?v=6UOiGkbp6w8>   
<https://www.youtube.com/watch?v=BpJCAafw2qE>   
<https://www.youtube.com/watch?v=ELznPFK1JJE>

<https://www.youtube.com/watch?v=Gl9HS7-H0mI&t=2s>

I find these videos pertinent to our project because they make me understand what I am dealing with, how I would start using the raspberry pi and how said raspberry pi can run scripts.

## Friday, November 22nd :

On Friday I decided to look up some more details about our sensor. (Where it should be placed in a room for the best and most accurate readings) I found that placing it on the higher part of a wall or the ceiling would make the readings more accurate. Next to a window is not preferred due to us wanting the reading in a room with as little outside influence as possible.

<https://learn.pimoroni.com/article/co2-detection-with-scd41#:~:text=You%20should%20position%20detectors%20away,can%20cause%20disproportionately%20high%20readings>.

<https://download.mikroe.com/documents/datasheets/SCD41%20Datasheet.pdf>

<https://sensirion.com/media/documents/0D0C9129/623B1183/Sensirion_CO2_Sensors_SCD4x_design-in_guide.pdf>