FA 21
Smart and Healthy Buildings
Heydarian, Campbell

Lab 3
Checking Out the Link Lab

Due Date:
2021-09-29 23:59

The goal of this assignment is to get more familiar with accessing and understanding the data collected in the living link lab

Getting into groups of three or less, prepare and submit a pdf with your team members name onto collab. The final goal of this lab deals with creating a function that generates a heatmap of the link lab where the value is equal to the number of data points in each of those grid points within a specific time range like this:

```
def generate_linklab_heatmap(start_datetime, end_datetime, fields, export_filepath):
    # Create a heat map for each grid point in the link lab
    # if successful, return filepath of image
    # on error, return None
```

However, to achieve that, break it up into the following steps:

1. Within the group, come up with the different steps that are required to generate the heatmap
2. Share with each other your corresponding GitHub repositories, and divide up the work

Deliverables:

- A write up of the plans to execute the task and how it was divided
- A function with signatures shown above, that if called, generates a heatmap of the Link Lab that shows how much data is detected relative to each grid
- An annual aggregated heatmap from 2021/1/1 to 2021/9/23
- The plan of the link lab needs to be plotted behind the heatmap
- Each team should create a public repository that can show this work **DO NOT ACCIDENTALLY SHARE THE CREDENTIALS (.ENV FILE) ON GITHUB**! You can consider using the default python .gitignore file

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Extra credit:

- Generate a video of the link lab heat map across its history and upload it as a mp4