

# Project Overview

2024 ADMI HACKATHON

**Project Name:**

**Pandora's Programmers**

**Mentor:**

**Charlie Dey**



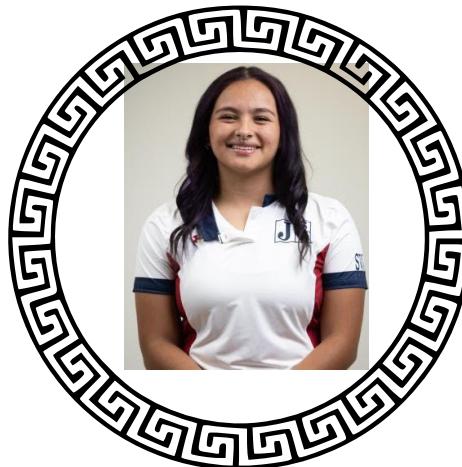
**Christian Henry**



**LeahMonet Morgan**



**Jesutofarati Ajala**



**Catalina Tovar**

## Objectives

## Challenges

- Set up Flask Project
- Create data entry Form
- Store & push data to HPC-ED website

#### Time conflicts

- Unfamiliar with the coding and/or gateways
- Converting JSON file to Network X
- Getting lines to show on graph

# Demo

```
import json
import networkx as nx

# Load the JSON data
with open('hpced-all.json', 'r') as file:
    json_data = json.load(file)

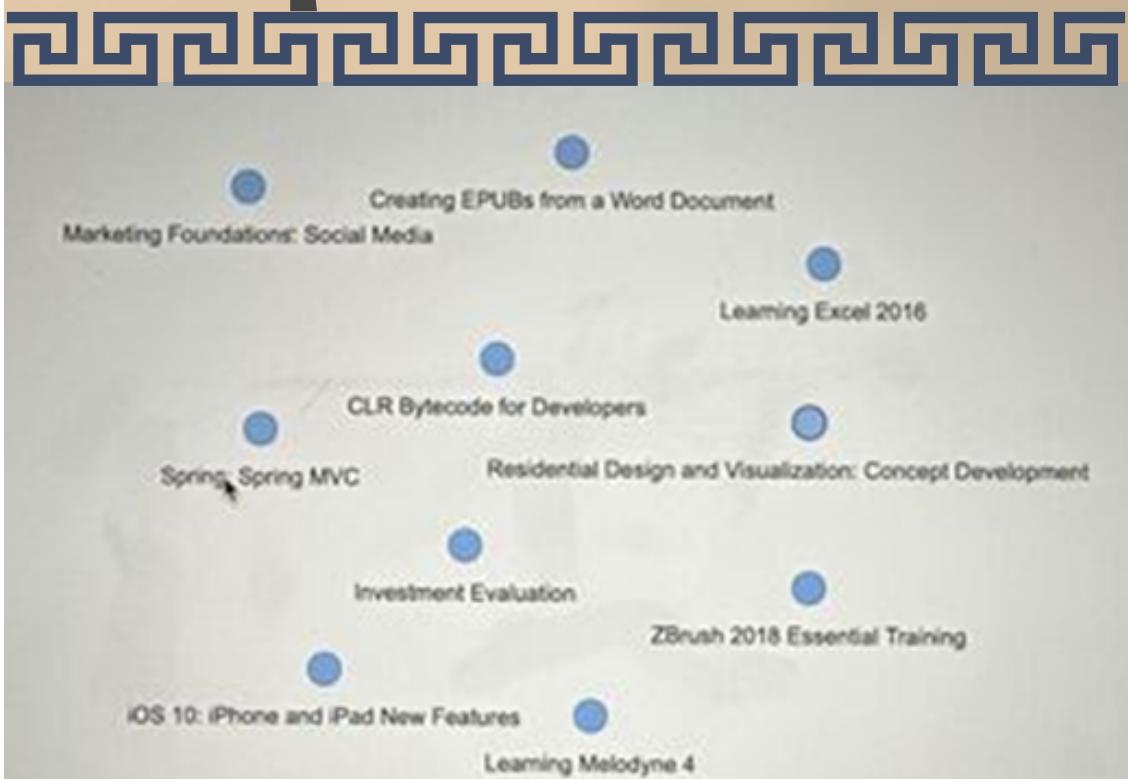
# Initialize the graph
G = nx.Graph()

# Extract and add nodes
for gmeta in json_data['gmeta']:
    for entry in gmeta['entries']:
        if 'content' in entry and isinstance(entry['content'], dict) and 'Title' in entry['content']:
            node_id = entry['content']['Title'] # Assuming 'Title' is the identifier for nodes
            G.add_node(node_id, **entry['content']) # Add node attributes

# Print basic graph information
print("Number of nodes:", G.number_of_nodes())
print("Number of edges:", G.number_of_edges())
print("Graph nodes:", G.nodes(data=True))
```



## Representation



# Resources

Activate Windows  
Go to Settings to activate Windows.



GitHub  
HPC-ED  
Network X



Globus  
Project Eureka  
Canvas

