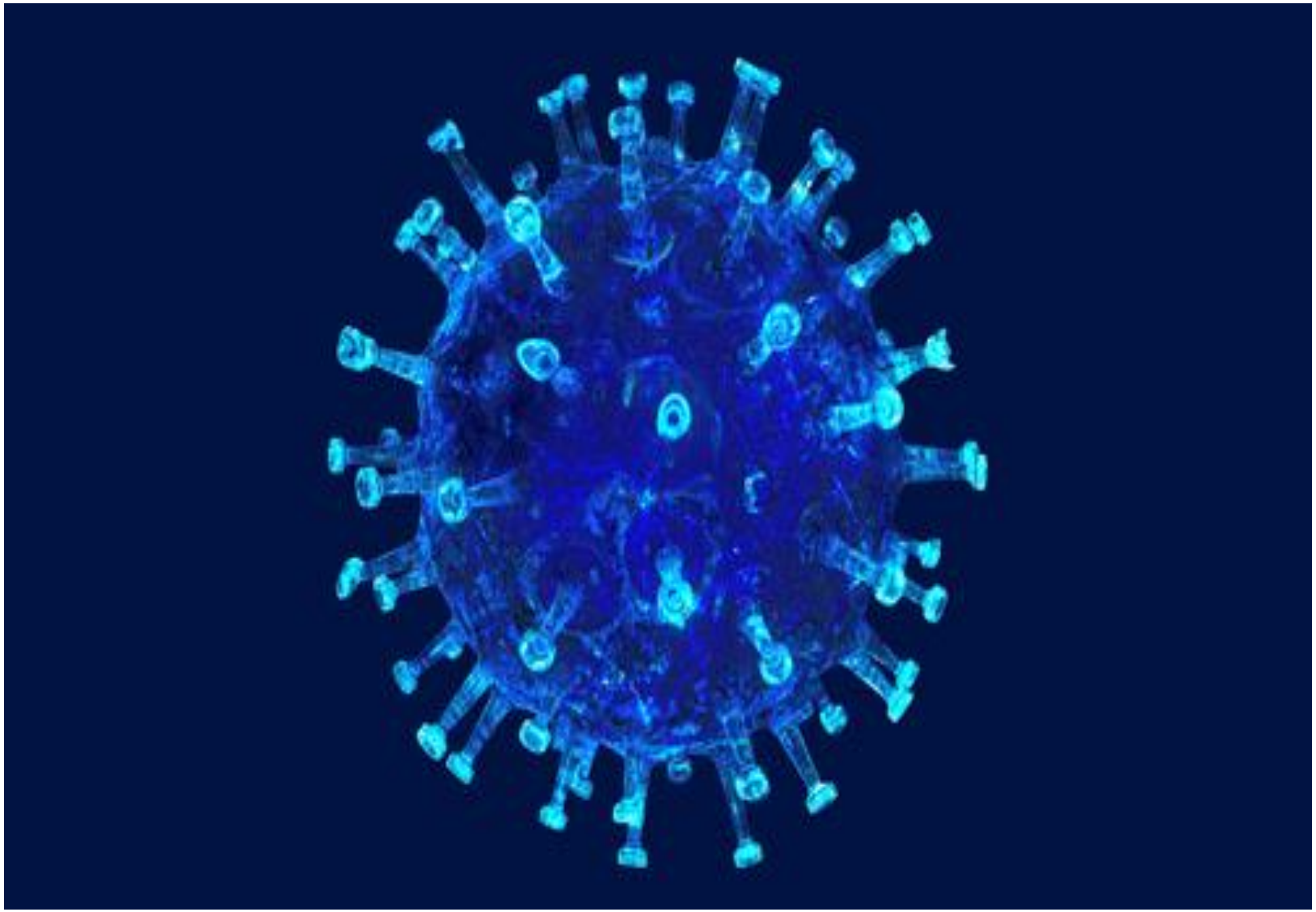


HackHPC@PEARC21

MASKED ANGST

THE TEAM

Mentors:

JerNettie Burney

Josh Kissel

Developers:

Chidinma Chinedu

Michaud Reyna

Johnny Turner

JiWoo Lee

COVID-19 and Mental Health

Analysis on the effects of COVID on mental health
- Trends
- Statistics

One state, one mental health condition
- Demographics
- Ages

Google keyword search analysis

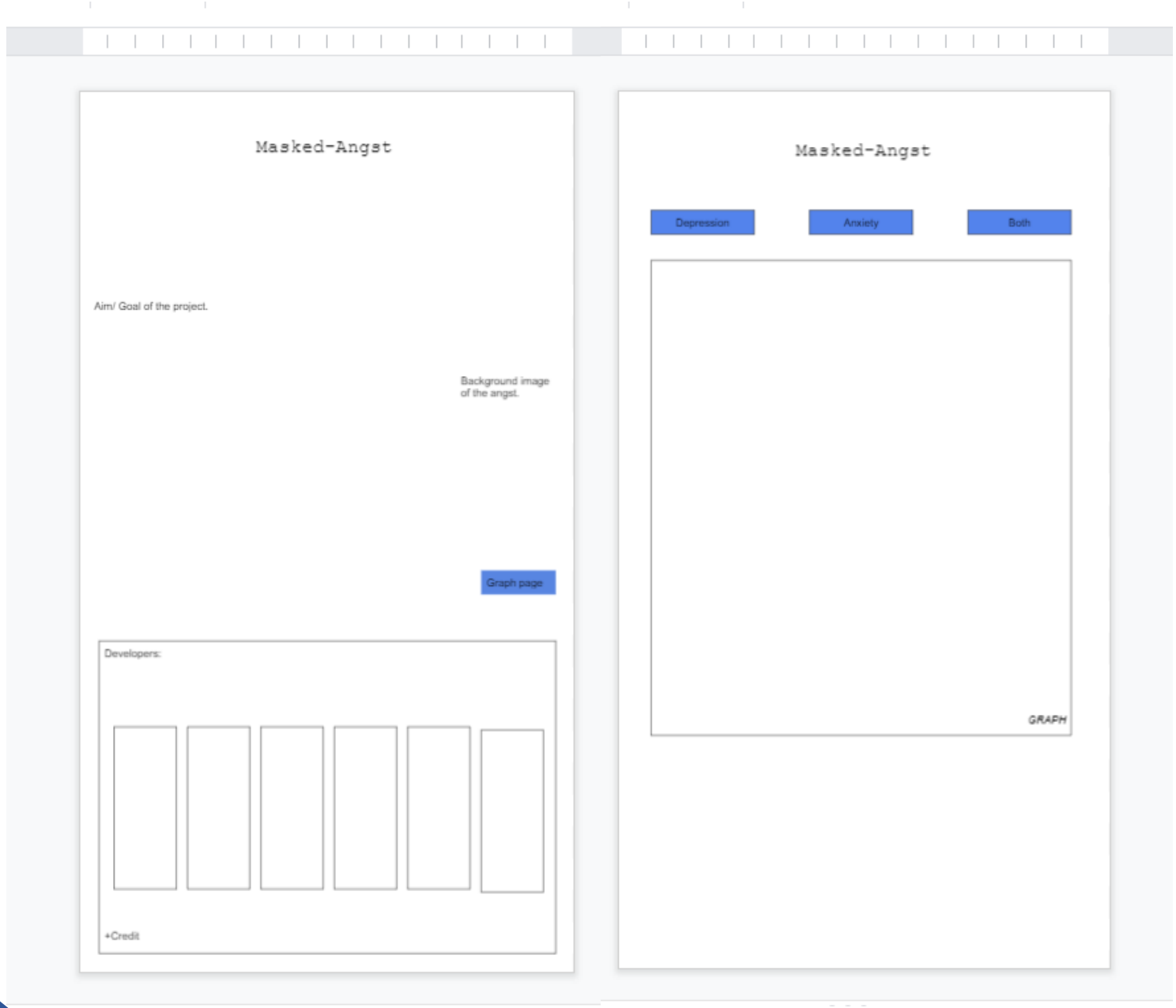
PURPOSE

- Find a correlation between mental health and COVID-19
- Inspect how policies in different states impact mental health as well as if certain demographics, genders, or minority groups were affected differently

METHOD

- Project Setup
  - **Google Doc** for Brainstorming
  - **GitHub** repository with ReadMe file
  - **Google Cloud Platform** to create a shared **Jupyter Notebook**
- Data Analysis
  - Datasets that correlates with depression and anxiety (1 domestic + 2 international)
  - **Post-surveys done yearly with COVID & COVID impact survey**
  - Datasets for medical data of drug purchases, suicide hotlines, overdose, alcohol uses and other signs of depression and mental health including Spotify searches and Google searches
- Backend
  - **Python**
  - Found code for data visualization for mental health datasets
  - Incorporate dataset into code to populate the visualization of the data
- Frontend
  - **html + CSS**
  - Website displays the different graphs – depression, anxiety, and both

WIREFRAME


Masked-Angst
Aim/ Goal of the project.
Background image of the angst.
Graph page
Developers:
+Credit
Masked-Angst
Depression
Anxiety
Both
GRAPH

HPC Highlights

- Learned what is HPC & why we use it
  - Large datasets that would take up a lot of space -> Ran calculations using Google Cloud instance
- Deployed Jupyter on HPC -> deployed a server
  - Use Google compute engine to host our server
  - Google Cloud storage to store our dataset
- Created webpage on Jupyter Notebook that is housed on Google Cloud Platform
  - Embedded photos on html file that were directly uploaded to the Notebook
- Take dataset to draw graphs and categorize
  - Converted charts into svg files to enable the graphs to be dynamic rather than static

Accomplishments

Technology incorporated:	
Python	HTML
JavaScript	CSS
Jupyter	bottle
postman	GitHub
plotly	
Google Cloud Platform	

- Analyzed the datasets that we discovered to condense down to the suitable information for the project specifically
- Utilized CSS to develop a user-friendly UI/UX
- Used JavaScript to connect the backend with the frontend
  - Debugged bottle (Python Web Framework)
- Utilized + manipulated GitHub for the first time

DEMO

https://github.com/chidinmac/Masked-Angst

Acknowledgements

QUESTIONS?