

EE/CprE/SE 491 WEEKLY REPORT 4

October 4th, 2024 - October 10th, 2024

Group number: sdmay25-43

Project title: GridAI

Client &/Advisor: Dr.Gelli

Team Members/Role:

- **Skyler Kutsch** _____ **Record Keeper**
- **Franck Biyoghe Bi Ndoutoume** _____ **Test Lead**
- **Hang Kim Thang** _____ **Cyber Security Lead**
- **Jesus Soto** _____ **Team Organizer**
- **Justin Soberano** _____ **Component Design Lead**
- **Rangsimun Bargmann** _____ **Role Manager**

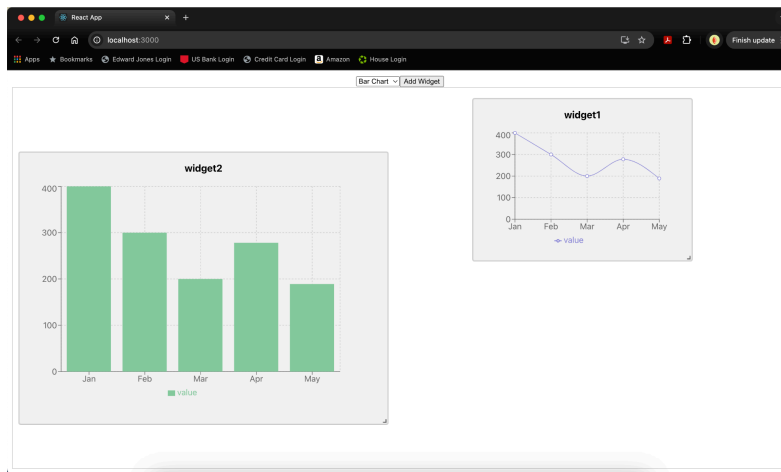
Weekly Summary

During our team meeting we created an Online Meeting channel in Discord. There have been scheduling conflicts recently due to midterms, clubs, etc, to combat this we needed to have everything online and organized. We now have a shared folder in Google Drive that has our weekly slide decks for the advisor meeting and the in-class lightning talk, the weekly report, and any other team assignments. Since hearing the front and back end presentations, we were able to discuss our action items in more detail during the advisor meeting this week. We presented our work and got questions answered in more specific detail than we were able to understand previously. Finally, Skyler, Hang and Justin organized a one-off meeting with Dr.Gelli on Friday to discuss the first 3 action items, and the grad students opened their office to us for meetings.

Past week's accomplishments

- **Skyler Kutsch** - Dove deeper into researching single line diagrams based on feedback and clarification from Dr.Gelli. I also cloned the git repository on the VM and created a branch for the single line diagram program.
- **Franck Biyoghe Bi Ndoutoume** - Was looking more into how to implement a chat box for our code editor by creating a react app.
- **Hang Kim Thang** - Planned for better node connectivity, the connection for the node isn't that good; it needs to be very structured or designed very well.
- **Jesus Soto** - Improved the dashboard and widgets prototype by adding the React Mosaics library to the implementation.

- **Justin Soberano** – Worked on figma screens for Maps and Code Editor
- **Rangsimun Bargmann** - Created a prototype to show widget functionality on dashboard:



Plans for next week

- **Skylar Kutsch** - Create a react program that can read data from a JSON file and generate a single line diagram.
- **Franck Biyoghe Bi Ndoutoume** - Improving the Code Editor and ChatBox UI by focusing more on the functionality.
- **Hang Kim Thang** - I will be looking into web traffic, to see the effectiveness of air on electricity.
- **Jesus Soto** - Keep improving the prototype implementation, focusing on data handling using InfluxDB for time series.
- **Justin Soberano** – Get access to the front end code and see if the concepts I made work with the current code base
- **Rangsimun Bargmann** - continue developing the prototype to support the functionality of multiple dashboards and more types of widgets, keeping in mind the structure of the code to make sure that it stays robust and manageable. Possibly communicate with Peeyush about beginning getting data to start rendering on the widgets.

Pending issues

- Gaining access to the project implementation in GitLab.

| <u>NAME</u> | <u>Individual Contributions</u> <i>(Quick list of contributions. This should be short.)</i> | <u>Hours this week</u> | <u>HOURS cumulative</u> |
|--------------------|---|-------------------------------|--------------------------------|
| Skyler | Researched single line diagram with JSON | 5 | 20 |
| Justin | Created figma screens for Maps and Code Editor | 5 | 20 |
| Rangsimun | Created a prototype which showed widgets being moved around on a dashboard that was structured similarly to how the Thingsboard code based was organized. | 5 | 19 |
| Franck | Created a Code Editor app, a Chat box component and other components. | 4 | 17 |
| Jesus | Added React Mosaics to prototype implementation | 4 | 19 |
| Hang | Looked into the risk management for our backend and frontend. | 4 | 16 |

Summary of weekly meetings

=Team Meeting=

- Discussed expectations for the week and next week
- Made team slides for the advisor meeting
- Started report 4
- Discussed lightning talks
- Set up online meeting voice chat
- Chose time and topic for lightning talk

=Advisor Meeting=

- Put name on slides
- influx data used for time series (data on influx DB)
- Some user authentication already on FireBase, possibly dont need Multi-factor authentication

- Code will be pushed by Friday?
- Peeyush meeting time: Tuesday is good, 3101 <- his office #
- Can DM grad students on Microsoft Teams