The Portal Network

Glados
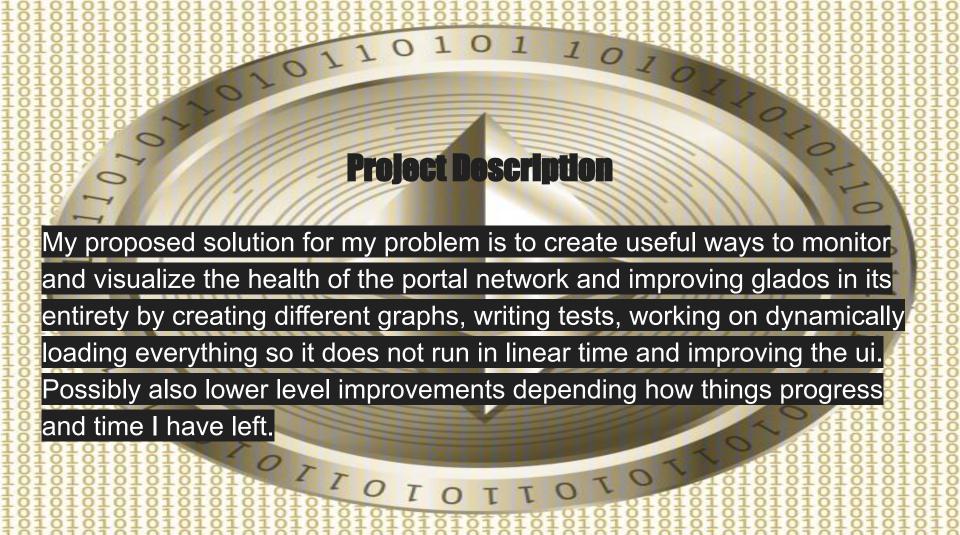
Glados is a Portal network monitoring and insight tool. That displays the health and insights into the Portal Network

Motivation

The problems my project is solving is creating useful ways to monitor and visualize the health of the portal network and improving glados in its entirety in every way I can, either that be by writing tests, improving glados ui, creating graphs and improving the speed at which everything loads. This is very important because it allows for more diversity into who's able to view and visualize the health of glados especially for user's but is all helpful for the developers as well. It is also very important because glados is the tool that displays the health and insights of the entire Portal Network and the more ways to visualize the health of the Portal Network and where things are going wrong or failing the better.

Project Description

My proposed solution for my problem is to create useful ways to monitor and visualize the health of the portal network and improving glados in its entirety by creating different graphs, writing tests, working on dynamically loading everything so it does not run in linear time and improving the ui. Possibly also lower level improvements depending how things progress and time I have left.

Specification/How will I implement your solutions

Graphs: Create a list of interesting data that would be useful and helpful to glados if it was displayed on the page, then figure how that information would be best suited to be display on glados by making different graphs best suited for the information i'm displaying, then figure out how to pull and display the information I want to display through the graphs using sea-orm or sea-query. If these graphs are useful and insightful toward glados and the team approves of them they might be implemented

Tests: When we encounter a bug or problem within glados it sometimes may stop glados from working or stop us from being able to view the health of the portal network which can sometimes be a problem in its own, so it is sometimes a good idea to write tests to ensure to do not encounter these same bugs again which can be very important.

UI: Create a ruff daft using figma of how I would improve the ui run it over with the Portal Network team and if they approve of it begin styling it in my ide.

Dynamic loading: Instead of everything loading all at once, it will load one thing at a time to improve performance and time complexity.

(If I have extra time) Lower Level Features: This is to be determined on how my progress goes during the fellowship. But would be a bonus depending how many project goes and would be a growth opportunity for me

Road Map

1st Phase: Research a ton into the ethereum, the portal network, glados and into my project. Continue to contribute to glados

2nd: Phase: Have a really good idea into what I'm to do for my project and have completed my project proposal, as well as continue to contribute and improve glados in its entirety.

3rd: Phase: By this point I should have made 3 to 4 significant contributions which has improved glados overall

4th: Phase: By this point I should have made 5 to 7 significant contributions in which has improved glados overall

5th: Phase: By this point I should have made 10 to 12 significant contributions which improved glados overall and created many way's for the users to be able to easily view and visualize the health the portal network through the contributions I have done on glados.

6th: (Optional Phase if I have extra time): deep dive into the lower level workings of glados to add new features or or optimizations

Possible Challenges

- Some of the possible challenges I believe that I may occur are facing some learning curves along the way which may prevent me from getting PR's out as fast and temporary halt my learning and progress along the way.

- Working on contributions that when reviewed will be merged and are useful, while trying not to spend all my time on something that in the end might not be implemented

Goal of the project

To me success is to have tried my hardest and have to have put in a ton of work and to have learned a lot along the way. My goal for this years cohort and my project is to have made many useful contributions to glados and by the end I hope I will have learned a ton and gained many skills, such as becoming really good at writing tests and becoming really good at being able to view and understand all the data. Additionally becoming really good at problem solving/research along the way.

Collaborators

Fellows:

- Kayden ML

Mentors:

- Mike Ferris

Resources

https://github.com/ethereum/glados

https://github.com/eth-protocol-fellows/cohort-four/blob/master/projects/project-template.md