Week 9 Project Status

Date

Nov 13, 2023

Participants

My Nguyen, Fengyun Chen, Xinyue Chen, Junyi Ma, Yutong Feng

Our **Github repository**: https://github.com/mytnguyen26/algo-shadow

Our current documentations https://github.com/mytnguyen26/algo-shadow/blob/dev/documents/

Please check your task on Jira board: https://met-cs673-f23-team6.atlassian.net/jira/software/projects/ALGOSHADOW/boards/1

Agenda

- Provide status update from last week:
    - What did you do last week?
    - What will you do this week?
    - Do you have any blockers?
- Go over Refactoring work in progress
- Demo of work completed and PRs

Status Update

- My Nguyen:
    - refactored Dijkstra and Heap animation modules, grouped them into 1 reusable function `GraphRenderer` for reuse.
    - added class docstring for module, which can be used with Doc Generator
- Fengyun Chen:
    - Gave a demo for experiment page with calculated experiment runtime using react hooks
    - presented two options for capturing runtime from experiment for analysis. We can use either the React hook to store past experiments for user to do analysis, or we can permanently store past experiments in **PostgreSQL** database.
- Xinyue Chen:
    - implemented and gave a demo for login and authentication implementation with JWT
    - shared the repo for Authentication Service used for authentication https://github.com/hicsail/authentication-service. This is a package that we will reuse for our project.
- Yutong Feng:
    - implemented BST
    - implemented error handling for Heap and BST
    - lightly refactored some methods for better reusability
- Junyi Ma:
    - implemented unit tests for BST, Dijkstra, and Heap algorithm solver logic

Action Items

- Everyone will continue to refactor the front-end application to follow module design as outlined in Software Design Document
- My Nguyen update all documents with current design and features
- My Nguyen to resolve current issue in the builds and start merging to `main` with release note

Decision Items

This is still an outstanding decision item. The team needs to decide if we really need a backend if all we want is to save users past experiment's input (array of numbers) and actual run-time. From Feng Yun demo it seems we can achieve the same thing with React Hook. It would save the data to the browser cache. We would reach decision by next meeting.

Additionally, since the Authentication Service is authored by hicsail group, we either need to fork the repo shared above or choose a different authentication providers (such as Firebase). We will need to reach decision by next meeting.