Week 7 Project Status

Date

Oct 30, 2023

Participants

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

Our **Github repository** (please clone from `dev`): https://github.com/mytnguyen26/algo-shadow

Our **Software configuration management document:** https://github.com/mytnguyen26/algo-shadow/blob/dev/documents/software_configuration_plan.pdf

Our **Software project management document**: https://github.com/mytnguyen26/algo-shadow/blob/dev/documents/software_project_management_plan.pdf

Our **Software requirement specification:** https://github.com/mytnguyen26/algo-shadow/blob/dev/documents/Software_Requirement_Specification.pdf

Our **Software Design Document**: https://github.com/mytnguyen26/algo-shadow/blob/dev/documents/software_design_document.pdf

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 blockers?
- Go over Database Schema design
- Go over REST APIs design
- Go over refactoring for algorithm solver implementation

Status Update

- My Nguyen:
    - refactored client-side algorithm codes for Dijkstra and Heap and grouped them into two separate modules. For more details, refer to this PR https://github.com/mytnguyen26/algo-shadow/pull/6
    - created UML class diagram for GraphRendering and AlgorithmSolver modules https://met-cs673-f23-team6.atlassian.net/wiki/spaces/SD/pages/9633795/Software+Design+Document#3.2.-AlgorithmSolver-and-GraphRendering-module
    - created UML class diagram for back-end server `ExperimentService` https://met-cs673-f23-team6.atlassian.net/wiki/spaces/SD/pages/9633795/Software+Design+Document#5.2.-Experiment-Service-module
    - created REST API design for communication between front-end and back-end https://met-cs673-f23-team6.atlassian.net/wiki/spaces/SD/pages/9633795/Software+Design+Document#4.-REST-API-design
    - created Entity Relationship Diagram (ERD) for tables in PostgreSQL database https://met-cs673-f23-team6.atlassian.net/wiki/spaces/SD/pages/9633795/Software+Design+Document#6.-Database
    - put together the Software Design Document. All of the above designs can be found in the document
- Fengyun Chen:
    - presented a new design improvement for the UI on Algorithm Page and Home Page
    - added information and completed our About Page

- implemented modules and classes for ExperimentService as outlined in the UML class diagram
- Xinyue Chen:
  - fixed all links and routing from home page to algorithm page
  - fixed some bug with Dijkstra implementation
- Yutong Feng:
  - had an issue with Binding not found error, but was able to resolve by following the instructions given on the GitHub issue
  - added two functions for BST
- Junyi Ma:
  - submitted the PR for hash and PR is currently under review https://github.com/mytnguyen26/algo-shadow/pull/11
  - implemented a couple tests with Jest, but currently having issue with Babel similar to the problem here
    https://stackoverflow.com/questions/62820035/babel-throwing-support-for-the-experimental-syntax-jsx-isnt-currently-enabled

Action Items

- My Nguyen will continue refactoring the front-end application to follow module design as outlined in Software Design Document
- Xinyue will start implementing Authentication Service
- Yutong will continue working on BST implementation
- Junyi will continue implementing Jest unit tests for AlgorithmSolver module
- Team will try debugging the issue Junyi is having and see if we can find a solution for it