Week 3 - Project Status

Date

Sep 23, 2023

Participants

- @My Nguyen
- @Xinyue Chen @Yutong Feng @Fengyun Chen @Junyi Ma

Our Github Repo: GitHub - mytnguyen26/algo-shadow: This is our product created for BU MET CS673, an algorithm visualizer. (please clone from `dev`)

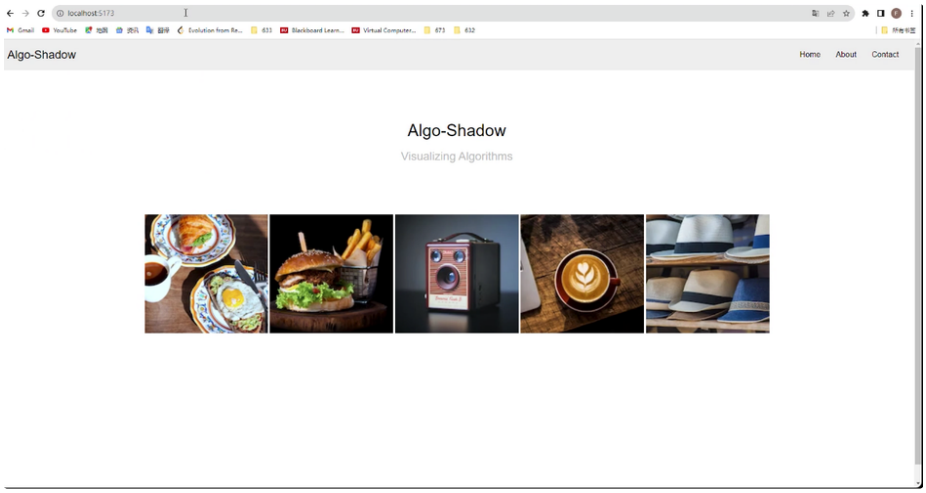
Goals

Below is the agenda for this meeting

- Standup:
  - What have you done last week?
  - What will you do next week?
  - Any blocker or issue?
- Overall Architecture Design:
  - Finalize Technology Stack for UI Framework
  - Finalize Technology Stack for Algorithm component

Discussion topics

Item	Notes
Standup	• @Xinyue Chen : ◦ Had a new PR for Homepage to be reviewed and merged to `dev` Home page by Summer-luna · Pull Request #2 · mytnguyen26/algo-shadow ◦ Is working on Dijkstra implementation ALGOSHADOW-38: As users, we want a step-by-step execution capability for Dijkstra to assist me in comprehending and debugging the algorithmic logic DONE • @Fengyun Chen : ◦ Gave a demo of current design for UI that was done in Bootstrap. The team recommended transferring the work done here to Material UI to match with the project tech stack. Additionally, to manage the design easier, we will need to document this design in Figma. Since Fengyun is new to Figma, @My Nguyen will work with him on this task. ◦ Below is the current design created by @Fengyun Chen ALGOSHADOW-45: As users, we desire a user-friendly user interface (UI) design that simplifies interaction, providing an intuitive and pleasant experience as I engage with the learning materials and activities DONE



- @Yutong Feng :
  - Is working on Heap algo implementation ALGOSHADOW-41: As users, we want a step-by-step execution capability for Heap to assist me in comprehending and debugging the algorithmic logic DONE . Yutong will also start pushing her work to a `feature` branch for the team to start reviewing
- @Junyi Ma :
  - Is working on Bellman Ford algorithm implementation. Currently, Junyi needs to skill up on React and Web design framework, so we will check progress on the task next week to see if we need to add another phase 2 task to allow him enough time ALGOSHADOW-37: As users, we want a step-by-step execution capability for Bellman-Ford to assist me in comprehending and debugging the algorithmic logic IN PROGRESS

Architecture Design Draft	@My Nguyen started working on the **High level architecture diagram** document. Current Diagram can be found here High Level Architecture Design . Once this design is finalized for release 1.0, @My Nguyen will migrate this doc to Github.

✅ Action items

- [ ] @My Nguyen to work on project status and submit
- [ ] @My Nguyen to start working on README.md for **Developer Install** specific instructions on how to get started on developing and contributing to the Project
- [ ] Team to start integrating Test framework to CI/CD for Client-side app. We're thinking Jest for Test framework and Github Action for CI/CD
- [ ] Team still need to finalize the UML design.

Decisions

- We finalized that the UI components (any components on UI that deals with styling/CSS) would be implemented with Material UI framework
- We finalized that the algorithm runner would be implemented with ReactJS
- Back-end service development timeline is set to start mid-October after release 1.0. We will focus on getting the client-side app working first