EE/CprE/SE 492 Bi-Weekly Report 5

Report Period: 3/25/2023 – 4/7/2023
Team Name: sdmay23-42
Project Title: Canvas LTI Student Climate Dashboard (Mark II)
Client: Henry Duwe
Advisor: Nick Fila
Team Members:
- Josh Harvey: Team Manager, Resonance & Persona
- Howard Chi: UI
- Elias Simpson: Server, Docker, Kubernetes
- Hailee Leonard: UI/UX
- Colin Hasbrook: Database and Backend
- Jonathan Giblin: Canvas/Okta Integration, Infrastructure

Summary of Progress during this Reporting Period:
The objective of the last two weeks was to continue progressing on our individual and team tasks. We made great progress on all objectives in the last two weeks. We had good attendance and engagement in our weekly meetings and are communicating effectively with the Client and Advisor. UI changes are continuing to be implemented. We started making design changes in the Canvas API calls and processing. Team members are continuing in their current roles and objectives. We have made great progress in the last two weeks.

- Josh Harvey: Investigate resonance scorer algorithms.
- Howard Chi: Created foundation of UI and a skeleton website. Transitioning from node and TS to express and JS.
- Elias Simpson: Established a way to update micro services more efficiently, though the complexity of dependencies has led to confusion about which services should be reset and when. Completed stack trace of error on graph load. Website now loads interactable graph without error.
- Hailee Leonard: Started implementation of UI changes. Worked through if it was better to start from scratch or build off the previous implementation.
- Colin Hasbrook: Completed the process of pulling all necessary data from the backend. Created dummy data for sentiment analysis. Created class that can pull this data for use by the frontend and resonance score.
- Jonathan Giblin: Installed and configured Jenkins on the VM. Reconfigured the CI/CD script in GitLab to correctly build and test so the pipeline doesn't error out.

Pending Issues:
- Josh Harvey: Implement changes to resonance scorer algorithms.
- Howard Chi: Connect with Hailee and help make UI pretty.
- Elias Simpson: Working out Kubernetes update, reducing coupling of variables and hard coding.
- Hailee Leonard: Completing basic UI implementation and connecting backend to UI.
- Colin Hasbrook: Implementing dummy data for sentiment analysis into canvas. Pushing data to SQL database.
- Jonathan Giblin: Getting Jenkins to build/deploy updates to the Kubernetes clusters. Getting the GitLab CI/CD to deploy to VM once pipelines stages are completed.

Plans for Upcoming Reporting Period:
- Josh Harvey: Make changes to resonance scorer algorithms.
- Howard Chi: Work with Hailee on UI.
- Elias Simpson: Improve app and module design so it's easier to modify the server for future teams. Determine best way to update Kube. Troubleshoot issues with saving some aspects of the app to the database.
- Hailee Leonard: I will be busy for the first week, but then will finish up the UI and start connecting the backend to the UI
- Colin Hasbrook: Complete backend, implement dummy data into canvas
- Jonathan Giblin: Finish implementing the GitLab CI/CD so the builds are deployed to the VM, and Jenkins to provide CI/CD for our clusters. Aid Elias and Colin with infrastructure/backend issues.

Individual Contributions:

Name	Tasks Worked	Total Time Week (Hours)	Total Time During 492
Josh	Investigate scorer algorithms, team documentation	6	47
Colin	Data pulling, backend classes to generate data, sentiment analysis calculator, dummy data creation	20	63
Elias	Debugging, Kubernetes	10	45
Howard	Create log in page	10	40
Hailee	UI implementation, new project vs old project	12	44
Jonathan	Meetings, Jenkins/GitLab CI/CD	11	38