
EE/CprE/SE 491 WEEKLY REPORT 4

3/4/2019 – 3/8/2019

Group number: sddec19-09

Project title: Finding Hay in the Needle Stack

Client &/Advisor: Andy Zobro & Srikanta Tirthapura

Team Members/Role: Yealim Sung/ Project Leader & Meeting Scribe

Gooi Yin Hong/ Webmaster & Lead Designer

Austin Konsor/ Chief Engineer & Software Architect

Mireille Mwiza Iradukunda/ Test Engineer & Report Manager

Weekly Summary

This week's goal was to get in contact with our faculty advisor, We were finally able to hear from him. We have a meeting with him on Friday morning. He gave us some tips on what specific questions we could ask our client. The meeting lasted for about an hour. We sent the Intellectual properties forms to the client to be signed we also got good news come from our client. During our meeting on Tuesday at 1:15 pm, we were told that we were granted access, 3 members of our team signed Agreement to the Terms and Conditions Access Control Plan. We decided to go to the facility on this coming Tuesday. Once we go to the facility we will be able to meet with the client and get more insight into the project in person. As a team, we met on Monday at 4:00 pm and worked on the agreements for Collins Aerospace, discussed times for going to the facility.

Past Week Accomplishments

Yealim Sung: Emailed the status report to the client and the adviser. Explored python data frame libraries. Had a discussion with Data Science lecturer on our program's direction. Practiced on generating graphs and plots using the pandas library.

Gooi Yin Hong: I am working to implement a data structure using a node, and make the balanced binary search tree to be multi-dimensional, and hopefully be able to use it in the project by just changing the node's property.

Austin Konsor: Researched possible libraries to be used for the implementation. Met with the advisor and also got his input on the libraries. Tested different visual modules to see what we should use for our input/output interfaces.

Mireille Mwiza Iradukunda: This past week, I worked on more practice with python, I also did some research into data mining, I am now introduced a bit to it and will be doing more with it. I was able to go our faculty advisors office to see if we could meet him as a team which was successful and wrote up the report.

Pending Issues

As a team:

- We are still gathering information for the project before getting started.

Individual Roles, Contribution and Time Spent

Name	Role	Contribution	Hours Worked	Hours Cumulative
Yealim Sung	Project Leader /Meeting	Exploring more libraries related to data visualization.	5	21

	Scribe			
Gooi Yin Hong	Lead Designer/ Web Master	Implement a data structure.	7	18
Austin Konsor	Chief Engineer/ Software Architect	Research possible libraries to use.	5	15
Mireille Mwiza Iradukunda	Test Engineer and Report Manager	Learning Python and data mining and made the report	4	15

Plans for the Upcoming Reporting Period:

As A team:

- Meet with the client at the facility.
- Get a better understanding of the data we will be using, which is still being discussed on the Collins Aerospace Side
- Get access to the powerpoint of the problem statement, as for now we still do not have security clearance to access it. That way we will get a further understanding of the problem statement.
- Learn more about APIs that will be used in this project
- Work on our team design document.

Individually

Yealim Sung: I will explore deeply about data cleaning and regex usage via data camp tutorials. Also, I will share my knowledge from data science class with group mates as we are starting to learn that has similar expected output of our project.

Gooi Yin Hong: I'll continue to look for any kinds of data structure that are suitable for storing files, because it is important for computing a large number of data in an efficient time complexity.

Austin Konsor: Make final decisions on libraries. Begin to map out how to build our database with our team. Make prototypes of possible outputs using the chosen libraries.

Mireille Mwiza Iradukunda: I will be learning about data visualization and what APIs are better for us to use. I will look into tools out there that are similar to the one we are developing to see if this can give me an idea of a direction for us to take.