

# SE 491 – sdmay20-06

## ENGINE DATA ANALYTICS TOOL

### Week 9/20/19 Report

9/9/19 – 9/20/19

Client: Collins Aerospace

Faculty Advisor: Lofti, Ben-Othmane

#### Team Members:

Zak Frisvold - Team Leader  
Thomas Haddy - UI/UX Engineer  
Ryan Radomski - QA Tester  
Will Sartin - Meeting Runner  
John Powen - Scrum Master

#### Weekly Summaries

We met as a team frequently, over these meetings we; did some 'IceBreakers' to get to know each other, went over work experience, and personal projects. This was necessary so that we can effectively become a team, as well as knowing each other's strengths and weaknesses. Finally we discussed what we would like to get out of this class. We met as a team to start off what we should be thinking about as far as this project goes. On 9-20 we met in person with our Sponsors.

#### Past Week Accomplishments

- Team Forming/Storming. - Everyone
  - Covered Ice Breakers, background experience, and did some light brainstorming.
- Had our first in person meeting with the Collins Aerospace - Everyone
  - Received a much better understanding of what we will be implementing.
  - Got the chance to see the data we will be working with.
- Got to explore the Collins Aerospace device that currently does the job we will be replacing. As well as the device we will get our input.
- Researched about data analytics - Everyone
- Tentatively discussed roles in the group regarding project management and ticket responsibility. - Everyone

#### Pending Issues

- Sign our NDAs.
  - We have to do this before we can actually receive the data so that we can begin working on prototypes of parsing it.
  - We do not know where to get the NDAs at the moment. Collins Aerospace thought that we had already signed them, but we know nothing about yet.
- Get formalized document on the requirements from the clients
  - They expressed some essential points, but nothing is on paper yet. They said they would work on it over the weekend and get it to us by next week.

- Research and draw inspiration and direction from other software that are similar to our project.
  - Client showed us some competitor software they liked and wanted us to read up on it.

## Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Zak Frisvold	Researching data analytics, and working with embedded software. Did some C/C++ coding to get refreshed.	5	10
Thomas Haddy	Looked up other data analytic software for vehicles. Coding in C/C++ because we figured we would be using that for this project.	5-6	11
Ryan Radomski	Read material on analyzing data, and programming some classes in C/C++ to get refreshed in that language.	4-7	11
Will Sartin	Learned about data processing and did some coding in Javascript with Ajax to learn more about presenting data.	4-6	10
John Powen	Experimented with data visualization by implementing some javascript code with the React library.	5-6	11

## Upcoming Plans for next Week

- Discuss advantages and disadvantages of different programming languages to accomplish our goal.
- Create stories and tickets.
- Meet more with the Client and formally go over the requirements for the project.
- Research competitor software (they recommended [Vector CANalyzer](#)).
- Appropriately assign roles for each team member.

## Summary of Weekly Meeting with Sponsor

We met Collins Aerospace at their Ames office location and went over the project idea together. They answered a lot of questions that we had since our documentation on the project was lacking. They gave us some brief idea of requirements, and told us of the ones that are very important. They also showed us a display from a C130 plane and told us that we would be expanding off of the current display to include data analytics. They also showed us the unit we will get our input & showed us the data itself on their computer.