SE 491 – sdmay20-06
ENGINE DATA ANALYTICS TOOL
Week 10/26/19 Report

10/12/19 – 10/26/19
Client: Collins Aerospace
Faculty Advisor: The 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 Summary

We did not meet with Collins this week because they had a previous engagement. We then focused on getting our own objectives completed and setting us up for the next phase which will be design and functionality of the application.

Past Week Accomplishments

- Able to get Collins Aerospace to sign the corresponding forms.
- Met with Client and went through basic requirements for the project - Everyone
- Research on competitor software - Everyone
- Research into IDE selection, with frameworks and libraries. - Everyone
- Working with initial UI/UX design - Thomas

Pending Issues

- Efficiently parse file into an appropriate data structure.
- Turn in the NDA, SAR, and IP forms to Tyagi
- Formalize the data structure, and get approval of Collins that it accurately reflects what is being represented in the data.
- How to move forward with the frontend, i.e., IDE, language, and how to connect it to our current understanding of the backend.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Zak Frisvold	Researched products similar to our project and what languages they were written in. After determining I would prefer using C/C++, I researched and determined that using VisualStudio would be the best IDE for developing our project if we go that route	6-8	44
Thomas Haddy	I did some research on what IDE's are available to us for coding in C/C++/C#. Also, I did some research with UI/UX design and with C-130 engines.	6-8	45
Ryan Radomski	Researched data format given to us by the client to better understand what sort of parsing technique would be best. I also researched C/C++ parsing techniques in order to get a head start.	6-8	46
Will Sartin	Implemented a simple parser of the data into a 2d vector string to understand and work through data. Also analyzed running time of parsing data files, to	7	41

	get efficient parsing. Also scanned and uploaded the documents for Collins to sign.		
John Powen	Participated in discussions regarding roles for the group and team members. Researched programming languages to use, what frameworks are available, etc.	6-8	43

Upcoming Plans for next Week
- Receive data and make initial steps for groundwork of the project.
- Continue to create stories and tickets.
- Formally decide as a group on which language and IDE to use for the frontend.
- Normalize IDEs and programming practices to maintain uniformity across the team.
- Research (general research into framework options, parsing ARINC 429, other items that need more information so the group can progress).

Summary of Weekly Meeting with Sponsor
Our sponsors from Collins Aerospace were not able to meet for the first week of this two week summary, due to a conference being held at that time. Our latter meeting consisted of us updating them of what we accomplished over the week. They were happy to hear that the data parsing is so much faster than what they are currently using. Collins also wants us to explore more and implement this project to how we best see fit.