

sdmay18-23: Internet of Things, Data Analytics for Snow Plow Truck-Data Live

Week 13 Report

February 10 – February 23

Team MembersAlan Peine — *Git Master*Colin Heinrichs — *Test Engineer*Evan Warych — *Report Manager*Michael Entin — *Meeting Reporter*Zachary Wilson — *Meeting Facilitator/Point of Contact***Summary of Progress this Report**

Once again, the main issues in the way of our projects success revolve around the early steps of the data flow. Most importantly of which is now the data logger, there was a need for refactoring of the script that is currently publishing to an FTP site. This is good, but per our design documentation, it should also be going straight to our data ingestion service. Furthermore, some data that could be valuable to our project such as which truck it is being sent from was needed to be included. After receiving hardware for the data logger from Henderson, we can now refactor and test solutions on in a live scenario. Other work being done is still prepping the application to transfer data throughout itself. Database calls and backend service routes were designed to accomplish that when data starts to come in.

Pending Issues

With development for the application stalling, dummy data has been added to our database. This will help the front end of the application at least mock the services and presentation of the data while issues with the data logger continue to be sorted out.

To build on that the other major pending issue revolves around continued changes to our data logger. A solution is being drafted and should be tested within the next reporting period to be sending the proper data to the expected location to continue advancements on the project.

Plans for Upcoming Reporting Period

The next development period will directly address the pending issues within the project. Michael and Evan will be working on the creation of services to transfer the desired data as easy as possible from the database to the front end of the application where Zach will be mocking up the presentation for our website. Meanwhile Alan and Colin will continue their work with the ingestion service and data logger scripts to work smoothly.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Alan Peine	Data Logger script refactoring/ingestion service testing	11	88

Colin Heinrichs	DLCS deployment	9	80
Evan Warych	Authentication/Authorization for app + route planning	8	75
Michael Entin	Database call creation	8	87
Zachary Wilson	Front End Design	6	77