

Sprint 2 Report (Week 8 - Week 10)

<https://youtu.be/hOPGObd3mFg>

GitHub Link: <https://github.com/KieranMcHugh/WSUDAS-AI.git>

What's New (User Facing)

- *Scoutlabs Data Transfer

- *Contour automatic generation

Work Summary (Developer Facing)

This sprint was primarily focused on completing the Scoutlabs data transfer step for the WSUDAS system which is now complete. However, there were a few hurdles we had to overcome in order to do this. Firstly, we had to set up our environments to properly generate the contours in the contour system which we had to troubleshoot some issues with the client to complete due to an issue with our ability to authenticate with the system. We also had to resolve an issue with the contour maps properly rendering, which while technically a hurdle, did reveal an issue within the existing system (involving stations being placed at invalid locations) that we and the client are now aware of.

Unfinished Work

We do not currently have any incomplete work for this sprint. Our overall goal was to integrate Scoutlabs traps with the system and transfer their logs to the database. We have managed to do that, the only remaining step with this process is to integrate the scheduling process (which we are currently communicating with our client about how they would like this feature implemented).

Completed Issues/User Stories

Here are links to the issues that we completed in this sprint:

- * <https://github.com/KieranMcHugh/WSUDAS-AI/issues/3>

- * <https://github.com/KieranMcHugh/WSUDAS-AI/issues/7>

Code Files for Review

Please review the following code files, which were actively developed during this sprint, for quality:

- *[InsertContourDataJob.php](https://github.com/KieranMcHugh/WSUDAS-AI/blob/main/sample_code/InsertContourDataJob.php)

*[SyncScoutLabsData.php](https://github.com/KieranMcHugh/WSUDAS-AI/blob/main/sample_code/SyncScoutLabsData.php)

*[Data_integration_flow.sql](https://github.com/KieranMcHugh/WSUDAS-AI/blob/main/sample_code/Data_integration_flow.sql)

Retrospective Summary

Here's what went well:

- * Item 1: The contour map is now auto-generated with the commands and data pulled
- * Item 2: We now can create a customized php-artisan command to automatically fetch the data from one service to another weekly
- * Item 3: The contour map is now displayed with a Google maps API showing the contour on an actual map
- * Item 4: Data is now pulled from ScoutLabs APIs and put into their respective schema (scout_labs_traps and scout_labs_records in weather-service), which is then fed into models-service for contour generation

Here's what we'd like to improve:

- * Item 1 While the data integration is completed, right now it is more of a sample working on chunks, so we need to modify it a bit and test it out on the whole table
- * Testing our scheduling system with the live service (we will communicate with the client about this).

Here are changes we plan to implement in the next sprint:

- * Have more meetings with focus of writing code in a group environment
- * Utilize Microsoft Teams to communicate with our client asynchronously