

Meeting Minutes - Client Meeting October 17th, 2022

Time	Notes
5:30pm	<p>Meeting Start</p> <ul style="list-style-type: none"> ● All team members present
	<p>Review of Team Delivered Documents</p> <ul style="list-style-type: none"> ● Agrees with the team standards document and all the major things outlined. <ul style="list-style-type: none"> ○ Good to specify certain things, state them in advance ● Likes the tool standards document, GitHub, etc ● Will join Discord and be available for the team ● Client will be unavailable the rest of this week and early next week
5:35pm	<p>Technical Feasibility Document</p> <ul style="list-style-type: none"> ● We have started looking at the technology, Apache Airflow and ISIS3 are nailed down. <ul style="list-style-type: none"> ○ Airflow can only take 16 tasks concurrently ○ Client says this should be enough for the project ○ Some things can be bundled together into one node ○ Shouldn't be an issue for now. ● Draft of the feasibility document is due next week. ● <u>Soft requirement</u>: Apache Airflow to be placed in a Docker container to be run on the cloud <ul style="list-style-type: none"> ○ Amazon has pre built machines that can be pulled down ● MVP: Product should have a UI ● Focus on getting the processing and the pipeline setup first. Stretch goal would be hooking it up to the map.
5:40pm	<p>Research & Planning</p> <ul style="list-style-type: none"> ● Look into automating the wrapping with Python ● Due Diligence: Look into Airflow and make sure it will be right for us. <ul style="list-style-type: none"> ○ Other workflow programs are available <ul style="list-style-type: none"> ■ Luigi, Nifi, Jenkins <ul style="list-style-type: none"> ● Jenkins is an option, client has a license ○ Open source is preferred ○ In the future there may be paid opportunities available for continuing on this project. ○ Client is ok with us looking at different programs if it leads to us picking the right one for the project ● Assigning out research projects <ul style="list-style-type: none"> ○ Pick which one you want to focus on

5:45pm	<p>Side Question - Recipes & XML Wrappers</p> <ul style="list-style-type: none"> ● Recipes are highly 'canned', and cannot be easily modified. ● Give the power back to the scientists, allowing them to build their own recipes, as well as make use of pre created ones. ● Remove the canned part of the existing process ● Hoping to use Airflow to build pipelines <ul style="list-style-type: none"> ○ Would be good to know in advance what the limitations are ● <u>Understanding how Airflow builds these recipes.</u> <p>XML Wrapper Demo</p> <ul style="list-style-type: none"> ● Very fixed process, needs to be more dynamic ● Scientists should be able to create recipes through DAGs. ● Would like a graph view for the DAGs, not necessary but nice to have. ● Not completely wedded to Airflow, but others are seriously looking at it. ● Not trying to have us learn ISIS3, but using Airflow to call it and implement the tools in an easier way. ● Formalizing a pipeline system for general use - moving away from discombobulated
6:05pm	<p>Research Jobs</p> <ul style="list-style-type: none"> ● Isaiah - Look at linking Apache and Kalysiris. ● Quinton, Richard, Chris, Hunter - Looking into building out DAGs, look into other options.
6:15pm	<p>Meeting End</p> <ul style="list-style-type: none"> ● Next meeting in 2 weeks