# Sprint 1 Progress Report

## GitHub Repository

[Provide link to GitHub repository, which should contain:

1. README.md file that explains how to deploy your code (if you add/change things from usual, otherwise this is probably a copy of Augur's README.md)
2. Progress Report, which will be some kind of indication about whether or not you need to update your scope.

GitHub Repository Link: <https://github.com/JacksonHaskamp/augur>

Branch for Sprint 1: sprint1 <https://github.com/JacksonHaskamp/augur/tree/sprint1>

## Scope

[Indicate whether or not the project scope needs to be updated.]

The project scope currently does not need to be updated, as we have recently established some initial idea of our project’s scope after meeting with Dr. Goggins.

We decided to work with the GitHub issue “GSoC Idea: Machine Learning based Community Health and Communication #1637” (<https://github.com/chaoss/augur/issues/1637> ).

* We need Dr. Goggins to give us a database of machine learning data so we may use it to implement the visualization API endpoint component. He’d have to find that data for us.
  + Machine Learning workers documentation <https://oss-augur.readthedocs.io/en/main/development-guide/workers/toc.html>
  + look at docs, see what data we persist, visualize different things stored as data
  + The Scorecard data is stored on a table.
  + Table structures
* Visualization endpoints
  + Could start with a Jupyter notebook
  + In Augur repository>augur folder, there are two folders in it. One contains examples of queries that are complicated because they started as Jupyter notebooks and were transferred over to endpoints
  + REST API documentation for Augur  
    <https://oss-augur.readthedocs.io/en/main/rest-api/api.html#tag/visualizations>
    - Visualization endpoints
    - If you open the links, it will fail because it needs e.g. ?repo\_id=25440 at the end of the URL.
  + Machine Learning Applications PowerPoint  
    <https://www.dropbox.com/s/pud4phzvjnhpwrr/machine-learning-applications.pptx?dl=0>

## Development Process

[Sprint 1: Configure and establish development process]

We got Augur running on an EC2 instance on Friday, April 8. Dr. Goggins saw it already (may look at #terrapins channel in Software Engineering Discord server). [Link](http://ec2-35-173-198-39.compute-1.amazonaws.com:5030/api/unstable)

At least two of our team members have Augur installed locally.

We may use some Agile development practices, such as having 4 sprints and reflecting at regular intervals how to change requirements or change other components/evaluating scope while development is in progress. This may include being willing to pivot or adjust our reasonable work goals. But for our team situation with this project, meeting every day and holding daily standups may not work. So, we’re not using the Scrum model.

## Team Reflection

[For this sprint, explanation of obstacles encountered, reflections, and goals.]

Obstacles:

* During the augur installation process, we encountered a few difficulties that we resolved.
  + One of these difficulties was not having enough RAM on our server to run the housekeeper and workers after our installation. We asked Dr. Goggins in class and he posted a solution that ran the augur backend while disabling the housekeepers from running using this command: (nohup augur backend start --disable-housekeeper >logs/a.log 2>logs/a.err &).
  + Another difficulty we faced was our augur.config.json had a syntax error in the Frontend section that we accidentally made when trying to configure and find out how to get our server link (<http://myservername:5000/api/unstable>) to display.
  + There was an issue with the database password. Tried to create the database and user again and grant privileges. Rebuilt Augur again for verification. This was due to the augur.config.json syntax error, prompting augur to not use our config file and use the default one instead, which doesn’t have the right database credentials. This was fixed once the syntax error was fixed.
* Trying to understand the GitHub issues and what they were actually trying to improve/add to Augur’s functionality.
  + Learning about the software’s existing functionality, what it’s trying to achieve, and its complexity.
* Trying to understand the scope of this assignment/final project.

Reflections:

* Meeting with Professor Goggins helped us understand the scope of one of the GitHub issues we had in mind to tackle for this project. He provided useful tools and resources that helped our team get started/get a better idea of what we were supposed to do.
* Dr. Goggins also helped explain the augur Api, as well as the concept of endpoints and how they relate to our project.
* Documentation of software is very useful and it’s important for documentation to be accurate, clear, and up to date.
  + Reading documentation is important for setting up and getting started with using new software/tool.
* Documenting team/developers’ work and issues that were encountered may be a useful practice, even if it does add some more overhead.
  + We kept in mind documentation is most useful for looking back at past work and ideas.
  + Taking screenshots and checking logs is helpful for diagnosing the error/issue encountered. This was made helpful when using the housekeeper logs to determine that our server did not have enough RAM to run the augur workers backend.
* Organizing team meetings taking team members’ availabilities into consideration took some effort.
  + We were able to be flexible with meeting format (in-person and/or virtual) and had meetings in the Engineering Library/Lafferre and via Zoom.
* A Discord group chat was used for team communication. A shared OneDrive folder was used to store project documents in the cloud.

Goals:

* Organize GitHub repo and utilize GitHub issues
* Design Document
* Design tests? Understand what Dr. Goggins means by defining design and tests
* How to use database, connect to API, configure it so it works with GraphQL
* Keep focus on working code in coming sprints that ties to use case