# **CS/SSW 555 Agile Methods**

Group 22 LitHub Sprint #1 2/16/2024

## **Project Background Information**

Selected Project Option Number: Option 1

#### **Main Objective of Project:**

Our objective of this project is to create a 3D visual rendering of a model of a brain using EEG/MEG that surgeons can study and locate areas of interest. We do this by first intaking EEG/MEG data and storing it in the cloud. Then next we want to use Source Localization Algorithms to pinpoint the sources of brain activity. After that we plan to make a 3D visualization system that generates a reconstruction of the brain. With the model, we also want to allow surgeons to enhance visuals provided by the reconstruction to pinpoint and study areas of interest. We also plan to add real time rendering to the program.

#### **Team Members and Roles:**

Name	Role
Jake Gebeline	Product Owner
Michael Savino	Scrum Master
Grant Shufelt	Developer
Dave Frost	Tester
Alexander Bakos	Developer

#### **List & Description of Each Sprint:**

Sprint #	Objective
Sprint 1	Data Integration and Storage
Sprint 2	Source Localization Algorithms Implementation <ul><li>Integrate Algorithms to process data</li><li>Thoroughly Test and adjust algorithms</li></ul>
Sprint 3	3D Visualization System Development

	<ul> <li>Design and Develop a 3D visualization system</li> <li>Implement ability to enhance visualization/view regions of interest</li> </ul>
Sprint 4	Additional Functionalities and Enhancements

## **Project Links:**

Туре	URL
GitHub/GitLab/Etc	https://github.com/msavino16/SSW555-Group22
Jira	https://stevens-msavino.atlassian.net/jira/software/projects/K AN/boards/1
Live Demo (if applicable)	

## Technology Stack Used:

Туре	Technology	
User Interface	JavaScript, CSS, HTML	
Backend	Python	
Database	Pandas, Numpy	

## Sprint Progress Update: Current Status

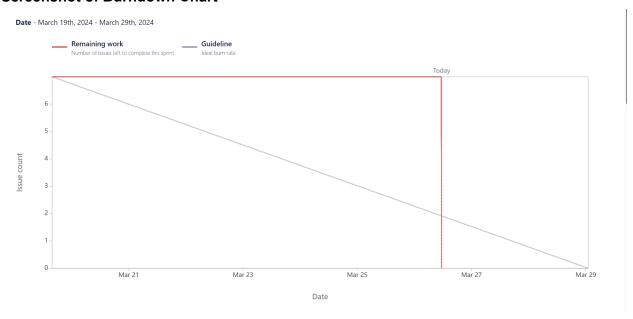
#### **Summary of Work Completed**

- Completed issues on Jira Backlog
- Met as a team to discuss and look back
- Generated Burndown chart for reference
- Made a list of things we want to keep doing vs things we need to do better

#### Screenshot of Jira Backlog



#### **Screenshot of Burndown Chart**



#### **Screenshot of QA Results**

We do not have any QA results yet.

### Screenshot(s) of Interface (Lo-Fi, Mid-Fi, or Hi-Fi)

We do not have any interface yet because the project has just been created.

## **Video of Project at Current State:**

It does not need to be one edited video. If there are multiple videos, please link all of them below:

Public Video URL (Google Drive, Loom, Etc)
No video yet, Just created all project accounts and teams.

## Sprint Progress Update: Current Blockers

## **Timeline Impacts:**

Туре	Impact
Create websites and programs to start working	Adds 1 week

## **Looking Ahead: Next Sprint**

- Start outlining what the first sprint will look like
- Divide the work in each sprint to have goals and specify what has to be done
- Assign issues on Jira
- Have a rough estimate of when the project will be finished

# **End of Document**

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