Sprint 4 Plan, FRT, Team Name, 11/14/2022

Goal:

- Task Listing:
  - User Story 1: As a user, I want to be able to see directions on how to use our website (8)
    - Task 1: Add a text box with directions on how to use the website. (3)
    - Task 2: Display the text box in a similar way to the website aesthetically (5)
  - User Story 2: As a user, I want to be able to get an accurate resynthesis of my uploaded sound. (25)
    - Task 1: Create a single function that can be run to execute the genetic algorithm. (4)
    - Task 2: Send the parameters from the backend synth to the frontend synth for the user to play (5)
    - Task 3: Save spectogram images of the original sound and the final sound (5)
    - Task 4: Fix any inconsistencies between the frontend and backend. (6)
    - Task 5: Add a loading visual to inform the user of work being done in the backend.(5)
  - User Story 3: As a user, I want to be able to interact with the backend genetic algorithm.(19)
    - Task 1: Add a parameter where the user can specify the number of generations the genetic algorithm should run for. (3)

        - Task 2: Add a parameter where the user can specify the population size the genetic algorithm uses. (3)
        - Task 3: send the parameters to the backend to be used by the genetic algorithm.(5)
        - Task 4: Use MFCC for backend scoring and average with spectral features(5)
        - Task 5: Add a parameter where the user can specify the mutation rate the genetic algorithm uses. (3)

    - User Story 4: As a user I want the website to have a consistent theme (16)
        - Task 1: Add border radius and border stroke to images and instruction box(4)
        - Task 2: Select a font that fits the theme(4)
        - Task 3: Select background color that fit theme(4)
        - Task 4: Design the upload file button to fit the theme(4)
    - User Story 5: As a user I want to visualize and compare my original sound, with my resynthesized sound. (9)
        - Task 1: Setup spectrogram environment in frontend, where they are to be displayed (3)
        - Task 2: Create both the old and new spectrograms in a png or other image type (3)
        - Task 3: Send the images to the front end to display (3)
    - User Story 6: I want a tool that is robust and reliable (10)
        - Task 1: Build test infrastructure to run tests (2)
        - Task 2: Build test cases and expectations for asserts (2)
        - Task 3: Get unit tests to stable state (6)

● Team Roles

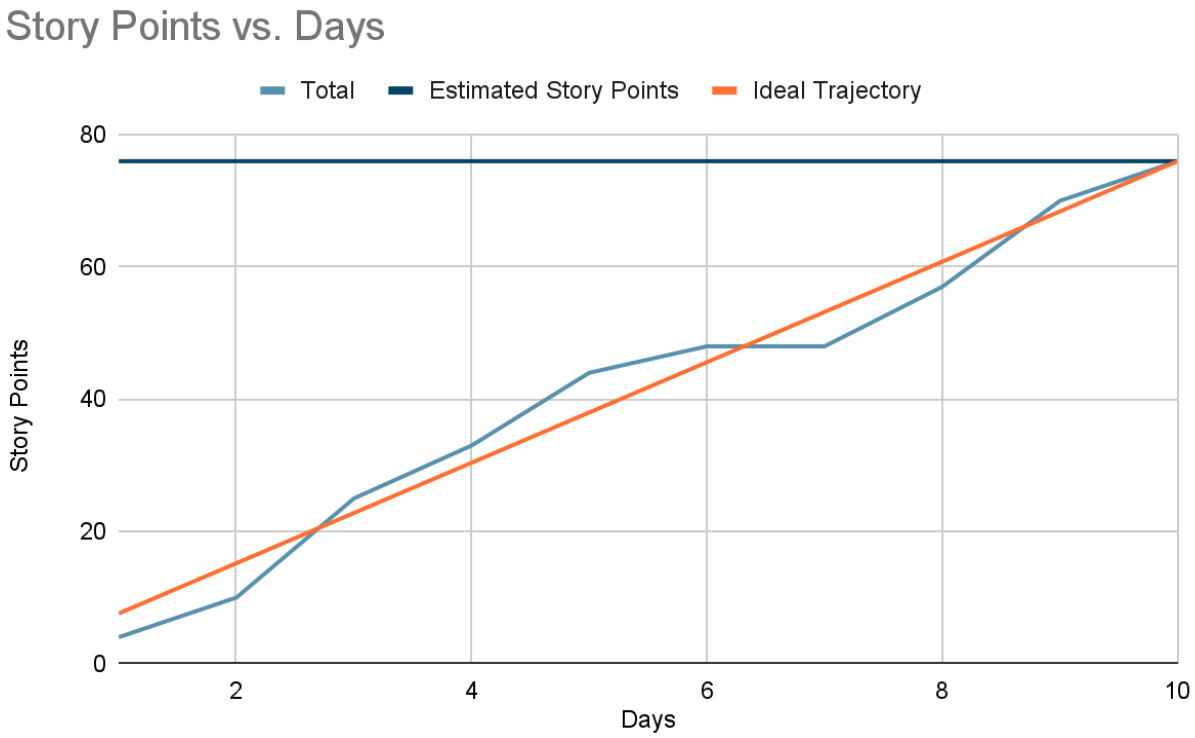
- Dylan Sutro: Project Owner
- Anthony White: Developer
- Radhika Gadre: Scrum Master
- Deva Empranthiri: Developer

- Gary Finco: Developer

Initial Task Assignment

- Dylan Sutro: 2.1, 2.2, 3.1, 3.2, 3.4, 3.5, 6.1, 6.2
- Anthony White: 4.1, 4.3, 1.2, 5.1
- Radhika Gadre: 3.1, 3.2, 3.4, 3.5, 6.1, 6.2
- Deva Empranthiri : 2.2, 3.3, 5.3
- Gary Finco: 4.4, 4.2, 1.1, 2.3

Initial Burnup Chart



Scrum Board

- https://trello.com/b/5hg928Ff/fm-resynthesis

Scrum times

- Mondays: 1:00 PM

    - Wednesdays: 1:30 PM
    - Fridays: 1:30 PM

- Incomplete tasks
    - Task 3: send the parameters to the backend to be used by the genetic algorithm.(5)