Sprint 2 Plan, FRT, Team Name, 10/28/2022

Goal:

Create a basic webpage that allows for fm synthesis to happen.

● Task Listing:

- ○ User Story 1: As a user, I need a visual keyboard to know what notes im playing, and play different octaves.(11)
    - ■ Task 1: Create a Keyboard to display on the website (3)
    - ■ Task 2: Label the piano keys with the letters from the keyboard. (3)
    - ■ Task 3: Move the octave of the keyboard up and down and display change on the keyboard. (3)
    - ■ Task 4: Move the keyboard to the bottom of the page (2)
- ○ User Story 2: As a user, I need a webpage that allows me to play different keys and also allows me to upload my own mp3 files. (10)
    - ■ Task 1: Create a front-end page that has piano keys and an upload button for a file to be uploaded. (2)
    - ■ Task 2: Connect the front end upload button to a python back-end (5)
    - ■ SPIKE: Find a way to save the uploaded file. (3)
- ○ User Story 3: As a user, I need to play a synthesizer with my keyboard input. (11)
    - ■ Task 1: Convert Ascii Characters to Midi information to be sent to the backend. (5)
    - ■ Task 2: Package Midi information into package to be sent to the backend (3)

- - Task 2: Connect the front end piano to a python back-end. (3)
- Team Roles
  - Dylan Sutro: Project Owner,
  - Anthony White: developer
  - Radhika Gadre : developer
  - Deva Empranthiri :developer
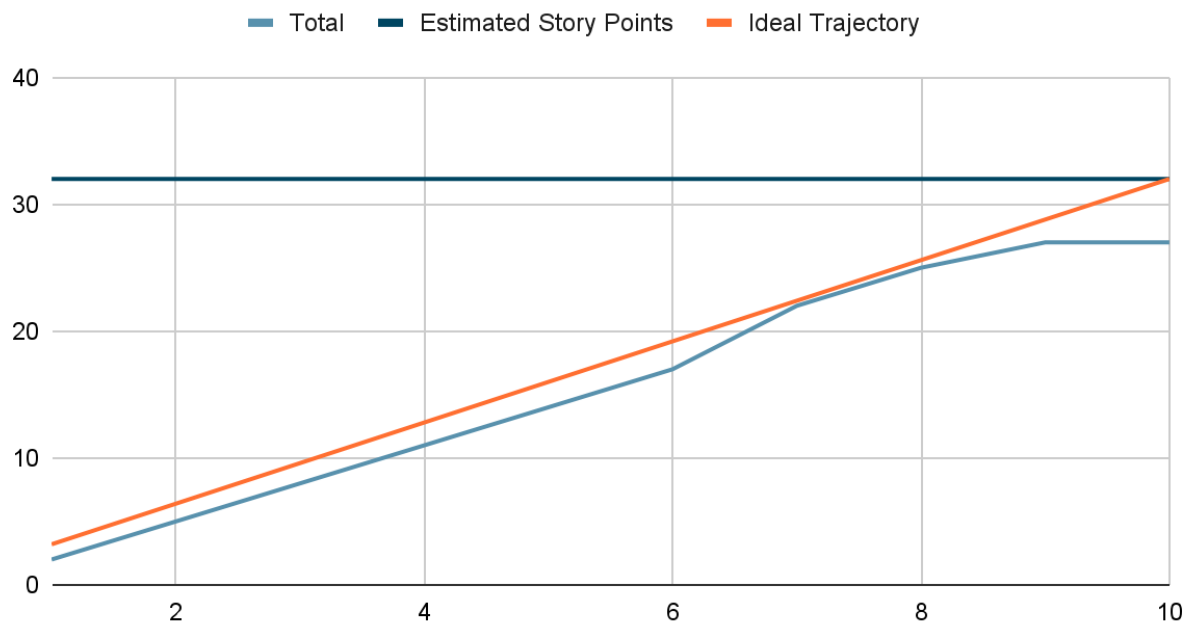 - Gary Finco: Scrum Master

● Initial Task Assignment
  - Dylan Sutro:
    - SPIKE: Determine method of FM synthesis in python
    - Fingerprinting audio files for correlation and comparison
  - Anthony White:
    - Label the piano keys with the letters from the keyboard.
    - Move the octave of the keyboard up and down and display change on the keyboard.
    - Convert Ascii Characters to Midi information to be sent to the backend.
  - Radhika Gadre :
    - Determine method of FM synthesis in python
    - Researched asyncio and genetic algorithm; create basic outline and pseudocode for genetic algorithm
    - Implement genetic algorithm
    - Doing more research on the fitness function
  - Deva Empranthiri :
    - Connect the front end piano to a python backend
    - Connect the front end upload button to a python back-end
    - Find a way to save the uploaded file

  - Gary Finco:
    - Label the piano keys with the letters from the keyboard.

■ Move the keyboard to the bottom of the page

● Initial Burnup Chart

Story Points vs Days

● Initial Scrum Board
- https://jamboard.google.com/d/1JYDSKK_Qfw8oRkMAF8wLuS9AKCdHM6eIssRGw78er30/viewer?f=0

● Scrum times
- Mondays: 1:00 PM
- Wednesdays: 1:30 PM
- Fridays: 1:30 PM