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Nov 15th, 2021

CS410 – Text Information Systems

Progress Report

Tasks as originally stated:

1. Front-end: 5 hrs
    a. Webpage development: 5 hrs
2. Back-end: 19+ hrs
    a. API communication: 3 hrs
    b. Parameter generation: 6 hrs
    c. Sonic Pi code generation 10+ hrs

Task Progress:

1. Which tasks have been completed?
    a. Most of my progress so far has been dedicated toward the largest task (2c)
    b. I've spend 7 hrs on task 2c and 1 hr on task 1a
2. Which tasks are pending?
    a. I have not begun progress on tasks 2a and 2b
3. Are you facing any challenges?
    a. My major challenge as of right now is figuring out how to leverage Sonic Pi to make musical beats that actually sound cool
    b. Learning Sonic Pi is similar to learning a new programming language
        i. It does have great documentation and sample code built-in to the UI, which is very helpful
    c. I am trying to construct a beat template
        i. Once I have the beat template completed, I will be able to plug in my interfacing parameters to dictate things like the beats per minute, the pitch of notes, and the sounds behind the instrument effects
4. Response to reviewer question(s)

a. Are you planning to generate some test cases yourself in end to test the system?
    i. Yes - this is an important factor that I should focus on, so thank you for the suggestion
    ii. This project's success is heavily influenced by the end result (the musical output), so it will be very important for me to be constantly tweaking and testing against a defined set of text input
    iii. As I stated in my proposal, "I love you" and "I hate you" will be two of these test cases
    iv. I also plan to use some basic sentences like "The man saw the dog chasing the boy around the playground" as well as more complex writing like song lyrics
        1. It will be interesting to compare how the beat behind certain songs can compare to the beat that this system will generate based on the song's lyrics