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| Weekly Project Report | | | |
| Project Title: | DNA Sequence Comparison Project | | |
| Developer: | Blaze Milner | | |
| Date: | 3/29/2019 | | |
| Period Covering: | 3/20/19 | To | 3/27/19 |
| Progress Highlights | | | |
| I made progress in developing a native application that utilizes my python script. I need the application to send the user’s input via an HTML form to my python script. I researched different ways this could be achieved, and a framework called Flask was utilized by a large number of programmers. I attempted to use this platform as well but kept running into issues. Therefore, I scrapped this idea and moved to a simpler method. I now use a JSON file to store the user’s response from the HTML Form and have my python script read that JSON file to determine the DNA sequence the user has entered to be compared. | | | |
| Dates of Specific Progress | | | |
| Date: | Progress: | | |
| 3/20 | I created a simple starting screen for my application using ElectronJS. The start screen shows the title of the application and allows the user to move to a different screen to input the DNA sequence. The sequence is entered into an HTML Form and stored in a JavaScript variable. | | |
| 3/22 | I researched methods to get my JavaScript code and python code to interact. Flask was the framework that was utilized the most. However, I had issues getting both sets of code to communicate. After several attempts to resolve the issue I decided to pursue a different alternative. Now, I store the DNA sequence into a JSON file. My python script then reads the file and stores the results in a string DNA\_seq variable. The program then follows suit in comparing the sequence with the NCBI database. | | |
| 3/25 | With this communication set up, I began working on displaying the results in the application so that the user knows that the search has been completed. I am having some issue achieving this so I plan to continue working on this in the week to come. | | |
| Activities to be Started Next Week | | | |
| I would like to improve the GUI and get the sequence to display to the user. I also need to have my python script run once the user enters a DNA sequence to be compared. As of now, the program must be ran manually for it to begin comparing the results. | | | |