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| Weekly Project Report | | | |
| Project Title: | DNA Sequence Comparison Project | | |
| Developer: | Blaze Milner | | |
| Date: | 3/01/2019 | | |
| Period Covering: | 2/20/19 | To | 2/27/19 |
| Progress Highlights | | | |
| This week I received a response from Dr. de Banzie that stated the program was accomplishing what he wished it to. Since this was the main goal of the project, we are now delving into different types of modifications we can make to the program. Biopython offers a variety of attributes that can be outputted to the user and Dr. de Banzie would like this to be shown at the beginning of the program for the user to choose the type of information to be printed to a csv file. Additionally, we are looking into creating a GUI for the application. I have found a package called “Electron” that helps in designing applications using HTML, CSS, and JavaScript. I have had minimal experience programming in these languages, but with my project progressing ahead of schedule I believe I have enough time to complete this task. | | | |
| Dates of Specific Progress | | | |
| Date: | Progress: | | |
| 2/23 | I successfully modified my program to allow the user to choose between uploading a FASTA file or entering the sequence by keyboard. The sequences from the lab are stored in a FASTA file so I am curious if the latter option is even necessary now. I will bring this up with Dr. de Banzie when we meet again. | | |
| 2/24 | I received an email from Dr. de Banzie that the program was working correctly and printing the results he was needing. We plan to meet on 3/6 where I will update him with the modifications I’ve made, specifically with the FASTA file. | | |
| 2/25 | I researched different GUI systems compatible with python. Tkiner is a toolkit used with python to create GUI’s, however, the end applications tend to look old and I want the program to have a more modern design. I found “Electron” which allows the user to create an application similar to how one would create a webpage. The programs look more modern than other toolkits I have found, however, I have not spent enough time researching “Electron” to know if it is a viable option to create the GUI. | | |
| Activities to be Started Next Week | | | |
| Next week I plan to implement the attribute menu Dr. de Banzie asked for. Additionally I would like to research “Electron” a bit more. I think it would be beneficial to review HTML, CSS, and JavaScript during this time as well if I end up choosing to utilize “Electron.” | | | |