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| Weekly Project Report | | | |
| Project Title: | DNA Sequence Comparison Project | | |
| Developer: | Blaze Milner | | |
| Date: | 3/15/2019 | | |
| Period Covering: | 3/06/19 | To | 3/13/19 |
| Progress Highlights | | | |
| This week I fixed two major issue I was encountering with the NCBI website. The first issue I resolved was my program’s inability to print all the matches found on the website. The second issue I fixed was my program outputting results not found on the NCBI website. | | | |
| Dates of Specific Progress | | | |
| Date: | Progress: | | |
| 3/10 | My program was only returning 50 of the matched results. I originally thought it was an issue with the NCBI website due to it crashing when I attempted a BLAST search. However, after googling the function I use to compare a dna sequence with those in BLAST database, I found that 50 is the default number of items to return. This value was stored in an attributed name hitstreak. After assigning 999 to hitstreak in my program I did not have this problem again. | | |
| 3/11 | I resolved the issue where my program was somehow returning values not found on NCBI. On my previous Google search to fix the first issue, I found a list of attributes the function I use to compare sequences utilizes. I found that the default alignment pool that the function uses is 500 while NCBI only uses 100. This attribute is in a dropdown list on the NCBI website and can easily be overlooked. After changing the attribute on the website to 500, my program outputted the same results as the BLAST search. I doubled checked that this attribute was the original cause of the issue by changing the attribute back to 100 on the NCBI website and then changing the value from 500 to 100 in my program. Both my program and the BLAST search outputted the same results; therefore, I believe the cause of the issue has been fixed. | | |
| Activities to be Started Next Week | | | |
| I have made significant progress in understanding JavaScript and CSS. My progress for next week and the weeks to come will be to utilize Electron to develop a modern looking desktop application. | | | |