#Project Proposal Rough Draft

https://github.com/chris91003/Final-Project

The basis of this project is to generate a streamlined pipeline that will extract crucial genetic information, and store biologically relevant information that will have a role in understanding disease. More specifically, the project will utilize a gene ontology/ gene functionality(annotation) tool to query for genes related to type 2 diabetes and extract these results and their molecular function and output into a webpage. The webpage will contain relevant genetic information of genes that are involved and have a significant impact in diabetes. This webpage will be a simple, user-friendly page that will be robust with information but also concise and easy to understand.

The sql database will contain relevant functional genetic protein and annotation information related to the disease. The user will input a search term, and the CGI will process this and query from the sql database.  As the user inputs information, the Jquery autocomplete feature will be implemented to suggest similar search terms to whatever the user is entering. For example if a user searches insulin, it will autocomplete with genes that are correlated with insulin. Once entered, the CGI will process the information, search through the database in the CGI, and place the information in stylized tables.