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Program 2 Report

For Program 2, I learned quite a bit about the small necessities when using regex, input commands, and parsing a text file to be able to separate its files. For today's paper, I will discuss the process in which I created the project and what decisions I arrived at that convinced me to continue programming it the way I did. I will also discuss the many difficulties I arrived at when creating the project and what I found to be successful. Finally, I will discuss what I learned from the project and what I will need to continue studying to generate a better chatbot and excel in my programming career.

Initially, I was determined to begin programming; however, soon, I realized that would not be possible without an actual plan, and that's when I started organizing it. For my project, I decided to start by fine-tuning the original get text file so that I would be able to work with all of the data. By using the inFile as my text holding variable, along with the string stream built-in functions, I was able to separate the words and lines to make it easier for me to work with me. Following this step, I created the dialog sections that would allow for someone to communicate with the chatbot precisely what they wanted to be done. This would include two different sections, one for printing all of the information and one for printing the specific information a person could be looking for. Finally, I would output the desired results to the output file for review.

Regarding the difficulties, I came across many issues. The most critical issue was understanding regex. However, I understood the concept from class. I found it very difficult trying to separate the entire text file, so I decided to program the chatbot to separate it by parts then to search for the desired results that way. Another difficulty was getting the classes and headers to work with

such extensive information; I found it best just to formulate the main file since it was the most consistent. Lastly, the most tedious issue was the formulation of the strings for the regex. I found it best to write down the desired results and parse them on paper, then move to the CPU.

All in all, I have learned quite a bit about regex and c++ functions. The most important takeaway for me would be to study how to make headers easier, so I can avoid having over 700 lines of code in one section. I would say this project was a success, but I have quite a ways to go before I am an expert.