

Program 3 Report

The goal for this third project was to create a user interface for our chatbot. We allow the users to type in questions about their representative into the terminal. Based on the user's questions, we output related information regarding what they input in the terminal. Whether it be the representative's name or printing out all the personal information about their representative, then use a copious amount of error handling to handle if not most but all of the questions the user can type in the terminal. Also, we have the program run in a continuous loop that loops until the user types in q or quit.

I use about six classes in my program that help me search and output specific things about the representative. Then I use another type of regex pattern to search through the user's question to find keywords like "rep's name" or "How many kids does the rep have." The pattern matches the string it calls to whichever class it needs to get output information like the rep's name or how many kids they have. Within my CPP files, I write many if-statements to support error handling. In addition, I have void functions that always convert the user's question in lowercase and another that checks if the user enters in a number outputting a message that says something similar to "Please don't enter in a number."

I think this program was really difficult due to the many redefinitions errors I had, which took me a long time to fix. Coming up with questions the user might ask and making regex expressions that match those questions. Fixing minor logic errors, go back through code checking to see if I have other statements for everything. However, I understood C++ a little more and implemented my classmate's code Antonio Turner regarding his method to make string all lowercase, and he used my class setup and regex patterns for his contact. Through this, we

were able to implement working print functions properly. That solely prints the section of personal info and contact info.