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Project Proposal

For my project in Formal Languages I am deciding to use a Deterministic Finite Automaton or DFA style. I am using this style for the project instead of Nondeterministic Finite Automaton or NFA because I plan on building a text parser. This text parsing program will take in a string to search for that string in the file or the folder. This type of project must be a DFA because it takes in a string as input and depending on the input it will change the output of the application. In the application, I will also make it so that the user has options when it searches for the string match. The user will be able to search for every file type or narrow the searches down to which file extension they would like to search in. The user will also be able to search the string for case insensitive or case sensitive. The last part that I am still up in the air is if I will write the application in c# or in java. I am leaning towards java because I do not have vmware installed on my Mac to run visual studio to make the desktop application. This is my proposal for my DFA text parsing project.