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### Project Proposal

For my project, I'm planning to create a class registration planner for Marist computer science degree (software development concentration) using DFA as a validator for course prerequisites. Class registration can be very stressful, especially when there are so many high-level courses that require many different prerequisites. This project will help define whether or not a computer science student has met the requirements for a course that they are planning to take.

DFA states will include course IDs of all courses required for the major. For example, CMPT440, CMPT220, MATH130 etc. The user can enter a course that they would like to take and then enter courses that they've taken so far, which will then be validated by the DFA. If they do not meet the requirements then they will be informed of the courses that they are still required to take before they can enroll in their desired course. On the other hand, if the student has met the requirements, they will be informed that they can enroll in the class.