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Intelligent Systems (CS5600)

11/15/2023

<div align="center">Project Proposal</div>

1. I intend to extend GPS operators to solve the problem of mapping out prerequisites for CS courses as listed in the USU course catalog. For example, if I have taken CS1400 and want to take CS2420, then I need to first take CS1410

2. I plan to use GPS within the framework used on the previous assignment. I will use the data found on USU's current course catalog to populate the rules.

3. My primary deliverable will be a working GPS program with rules that will help students see a plan of what classes they still need to take (based on what classes they have already taken) in order to be able to register for the desired class.

4. Dependencies – nothing worth mentioning. This project will run in CLISP as have the last 3 or so assignments.

5. Timeline:

The below dates are the 'due by' dates for each component – ideally, I will perform each item ahead of schedule, but this is the minimum pace.

- 11/18 – Project proposal complete
- 11/25 – Courses and prerequisites mapped out, dependencies written out in prereqs.txt
- 12/02 – Rules formally expressed in GPS
- 12/09 – Debugging and validation complete, project submitted

6. Risks: I am graduating this semester, and a substantial amount of my time is and will continue to be dedicated to finding employment post-graduation. Additionally, my wife and I will likely be leaving Utah (for several years, at least) once I graduate. As such, there is a substantial obligation from family to spend time with them prior to leaving the state. I believe I have chosen a project that is ambitious

enough to highlight some of the skills I have developed this semester, while being realistic and achievable within the provided timeframe.