

Deliverable #2: Phase #1 Prototype

Due: Wednesday, November 4, 2:30 PM

Algorithm Design Document

You will design your Project Partner Identification (PPID) Algorithm and provide a PDF document that describes it. Your document will define, explain and justify the following:

- a minimum of 12 (twelve) separate and original *qualifications* to be used by your algorithm for matching students into teams; no more than three (3) of these 12 qualifications can consist of course marks
- the valid range of values for each qualification
- a unique set of rules for matching together project partner profiles, based on the qualifications contained in those profiles; the rules must use all the qualifications that you define, including a student's own qualifications and the ones that he/she requires of his/her project partners
- a description of the algorithm detailing how the rules are used to compute the optimal teams

Your algorithm will be evaluated based on the originality and appropriateness of its matching rules and qualifications.

Algorithm Design Presentation

Presentations discussing each team's PPID Algorithm will take place in class on November 9, 11 and 16. The exact date and time for each team's presentation will be decided randomly, so all teams are expected to attend every presentation day. Each team will be given 5 minutes to discuss and justify their algorithm, including their choice of qualifications and rules.

Prototype

Within the platform provided by the official COMP 3004 virtual machine, you will implement the complete working source code for the following selected features:

- the *cuPID* student user's ability to add him/herself to a selected project
- the student user's ability to edit his/her own project partner profile
- the administrator user's ability to create and edit projects
- the administrator user's ability to modify the configuration values required by the PPID algorithm

NOTE: You will **not** be implementing your PPID algorithm for Deliverable #2.

In addition to the prototype source code, configuration and build files, and operating instructions, your submission will include a **minimum** of 25 completed project partner profiles, already data-filled, saved in storage, and visible on system start-up. A deduction of up to 20 marks may apply if the student features cannot be adequately tested because of insufficient data-fill.

Grading

Breakdown:

Algorithm Design:	35%
Prototype admin features:	15%
Prototype student features:	40%
Presentation:	10%

Format

The content of this deliverable will be discussed in class. The prototype source code, algorithm design document and presentation slides must be submitted on [cuLearn](#), on or before Wednesday, November 4 at 2:30 PM sharp.