Course Project

15-819M: Program Analysis
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Project Proposals due Monday, March 15 at 1:30pm
Milestone 1 Report due Monday, April 5 at 1:30pm
Milestone 2 Report due Monday, April 19 at 1:30pm
Project Presentations and Reports due Tuesday, May 4 at 8:30am
500 points total

The goal of the course project is to become deeply familiar with a sub-area of program analysis research and to make a research or engineering contribution to the state of the art. The expected scope of the project is about 50 hours, spread out over the last half of the course.

Groups. Students may work on this project in groups. Group projects will be given a single grade, with exceptions only in extraordinary circumstances (e.g. if someone is clearly not pulling his or her weight). You are free to choose your own groups. Expectations for the project will be scaled (within reason) to the size of the group.

1   Project Proposals

Your project proposal should be emailed to the instructor (jonathan.aldrich@cs.cmu.edu). Option 1 is to say you want to work on an extended static checker for a simple C-like language to be used this fall in the introductory course sequence here at CMU.

Option 2 is to propose your own project. List the project title and the members of your group. If you are building a tool, describe the goals of the tool, the techniques you plan to use in implementing it, and how you will evaluate its success. If you are doing an analysis case study, describe the analysis methodology you will be using, including an existing tool if applicable. Also describe the code which you will be analyzing and how you will evaluate the results of the case study. Finally, describe what you intend to do by the first and second milestones. Your proposal should be about a page of text, and is worth 50 points.