Project: Alternative Vote

APCS Final Project Plan .

Submitted to: Mr. Fulk

Project Manager: Andrew Lin

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**Project Overview:** Our project is supposed to make it easier to implement alternative voting methods (as compared to first-past-the-post) with a user-friendly GUI, black-boxing the actual voting process.

**Project Team:** Vinay Senthil will be working on networking using MySQL to collect individual votes and consolidate them into overall voting results. Jeffrey Tao will work on the implementation of the different voting systems. Andrew Lin will work on GUI and additional statistics to supplement the vote (statistical margin of error and so on).

**Challenges**: We are uncertain of how difficult it will be to streamline the voting process, as well as the GUI display during the candidate selection process. Though the algorithms are pretty simple, it might be difficult to implement in a user-friendly manner.

**Major Tasks and Schedule:**

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| **Task** | **When** | **Responsible** |
| Establish basic framework (classes Vote and Candidate, (abstract) Election, etc.) | Monday, May 1 | All of us |
| Establish basic GUI (class VoteWindow) | Thursday, May 4 | Andrew |
| Write AlternativeElection class & implement GUI | Friday, May 5 | Jeffrey |
| Implement networking | Monday, May 8 | Vinay |
| Additional types of voting such as the Electoral College | Thursday, May 11 | All of us |
| Implement statistical models | Friday, May 12 | Andrew |
| Documentation | Thursday, May 18 | All of us |