Student Research Project
Senior year project class (491a/493a) topic proposal

Goal and background of the 491a/493a courses

This course lets students develop a software system in teams over the course of one semester (CSULB will switch to two semesters beginning in January 2016). They work in teams of five and we try to match the skills to get them all to a good mix. They work on it roughly 10 hours per week (if they like the project, they might do more) times 15 weeks.

They are supposed to go through the whole development process from requirements engineering through design, implementation, test, and delivery. We would appreciate to have real world customers for this so that students learn to interact with a real customer and how to manage a project. We specifically welcome non-profit organizations for this.

Company & Mission

Please write a paragraph about the company
Description goes here ☺

Topic & Problem

In terms of what topics we are looking for, it is more helpful if you come with a problem you have (instead of a design for a solution), so they have to figure out what a software system would look like that can help you. For example, you are having communication issues and trouble with having everybody up to date on the latest status in your volunteer organization. Then the students can start thinking of whether a wiki would be more helpful for you or a database or which other way this could be done. Then they'd propose those options to you and discuss what makes the most sense to implement as solution.

We did a very rough estimation of efforts and came up with a ballpark figure of 300 work hours per project in case that helps you scope it. If it turns out your topic is too big, we can split it up into two projects and continue next semester.
Description goes here ☺

Preconditions (required skills and knowledge)

I put in a few examples, but you can be more specific, e.g. Student needs to have general knowledge about gardening (for the local food movement).

- Interest in developing a system for this application domain
- Ability to solve problems and think creatively
- Ability to work independently

Stakeholder / Contact person

Please provide the contact information of the responsible person at the company
Contact information goes here ☺

Advisors

Birgit Penzenstadler, Frank Murgolo, Mike Boctor