6.170 Project 4.1 Teamwork

Dwyane George, Naim Lujan, Deborah Chen, Yi-Shiuan Tung

Stakeholders/Roles

- **Students:** Undergraduate students at MIT are our primary stakeholder. They are primarily interested in using the application to find UROP projects that are right for them. They will search for projects, apply for projects, and rate their previous UROP experiences to help other students choose which project to commit to.
- **Supervisors:** Supervisors can use our app to post UROP openings to reach a broader audience of students and view applications of interested students. They can also see reviews of student UROP experiences, and may be interested in feedback pertaining to them.
- **UROP Office Staff:** Staff from the UROP office may be interested in using the app to gain additional feedback on specific UROPs or professors. Though we don't support this role in this iteration of the project, in the future, they can use the reviews to recognize professors for providing exemplary research opportunities and provide recommendations for improvement to those who are poorly rated.
- **Department coordinators:** Department coordinators, such as Anne Hunter, often take UROP postings from supervisors and post them to a moderate jobslist. Now, these coordinators can direct those supervisors to urop.io. In the future, urop.io may provide functionality for coordinators to post jobs on behalf of a supervisor.

Resources

Mostly use Rails/Heroku. Will consider visualization libraries like d3.js for final version. No special resources needed.

Risks

- Time management
    - All team members have busy schedules and must be vigilant about carving out time for 6.170. For example, this week, ¾ members have two or more exams, while next week, one team member will be out of town for interviews.
    - Mitigation: We have clear delineation of tasks, and each team member is required to notify team of any conflicts or issues that arise in advance. We also divided the work to make sure people available to work earlier work on things early in the dependency chain.
- Ambitious scope
    - We've already pared down the feature set from our original idea, but we realize the potential for feature creep.
    - Mitigation: Each team member, while they are working on their part of the MVP has

the discretion to pare down the feature, provided they justify decision to team.

- Managing code
    - With the 4 of us, it is extremely important to make sure we don't check in broken code to master
    - Workflow plan:

```
# Create your new branch
git checkout -b my_new_brach
DO CHANGES IN my_new_branch
git commit (into my_new_branch)
git checkout master
git pull (get latest changes in master)
git checkout my_new_branch
git merge master (merge master into my branch)
RESOLVE CONFLICTS IF THERE ARE ANY
git checkout master
git merge my_new_branch
git push origin master
```

MVP

Included features:

- Supervisor and student roles: Sign in/sign up as supervisor or students, with proper profiles for both
- Central repository for postings: Supervisors submit postings, viewable and searchable to everyone in the app. Search will be based on skills and description for now.
- Application handling: Students submit applications for postings, which makes the students' profile automatically available to supervisors
- Basic review system: Students can post reviews on UROP experience, viewable to everyone

Issues postponed:

- UI issues: We will clean up the UI and make the experience smoother for the final version
- Auto-populated supervisor profiles: In the final version, professors can "claim" a profile that is mostly pre-populated with their name, department info, etc.
- More robust searching: Eventually support search by much more than skills, e.g. ratings, time commitment, supervisor name, etc.
- (Possible) Visualizations for reviews: Eventually want to support visualizations, e.g. "Which supervisors have the best ratings?" Need to think more about what these would be.

Tasks

Each person is responsible for making the feature work, includes all model/controller methods and forms needed.

Deborah: sign in/sign up as supervisor or student; set up heroku app due 11/14 midnight. Work on view/general UI time permitting.
Naim: ability to submit postings, viewable by students and supervisors: due 11/15 midnight

Yi-Shiuan: Application handling - students can apply to postings, and applications visible to supervisors: 11/15 midnight
Dwayne: Basic review system - students can post reviews 11/15 midnight
Everyone: Saturday and Sunday meeting to check-in and wrap up; turn in 11;/17 in github

For final (will assign after MVP)
Work on UI/view
Create useful visualizations/aggregations of review data
Finish work on all features from above (people switch to different feature)

Other tasks (everyone collaborate)
From project schedule:
https://stellar.mit.edu/S/course/6/fa13/6.170/courseMaterial/topics/topic2/project/final-project-schedule/final-project-schedule.pdf