



Capstone Design Project Management

SPONSORED BY DR. MONICA ANDERSON

TEAM MEMBERS:

COLE KELLEY, COLE MUNN, GATES ARNOLD, JACKSON BURKE, AND THOMAS HICKS

General Motivation

Coordinating 28 projects across several unique sponsors

- Email communication
- Project descriptions and related files
- Project submission deadlines and notifications

General Motivation

- 108 Computer Science students
- All have uniquely ranked project preferences
- Matching students to projects

Core Features

- Maintains a list of projects and project sponsors for each semester
- Collects feedback from sponsors three times per semester
- Manages the submission process
- Collect features of projects (if available)

Core Features

- Upload links, PowerPoints, etc. from sponsors
- Generates bid forms from projects
- Suggests project assignments based on interests (if time available)

Technical Details

- Django vs .NET routes for developing a database
 - Our team has significant experience with .NET
 - Django will likely be easier to learn for students in future semesters
- Automated Emails
 - SendGrid
 - Yagmail

Initial Thoughts on Development Environment

- Docker
 - Environment consistency
- Google Cloud
 - Hosting the site
 - Backup via snapshots
- Git/GitHub
 - Versioning

Related Apps

- Microsoft Forms
 - Limit on project entries
- Devpost
 - Includes team formation for projects but no preference matching

High Priority Challenges and Obstacles

- Internal vs External
- Web Dev/Unfamiliar technologies
- Hosting a secure virtualized system on the cloud