

Engineering, Design and Society
1500 Illinois Street
Golden, Colorado 80402

Engineering Design and Society Team Evaluation

Background

The Colorado School of Mines Engineering Design and Society Capstone Program encompasses 2,000 students every year in team-based projects. Peer/Team evaluations are performed twice every semester currently using CATME designed by Purdue University. Peer evaluations are critical to student development and problem mitigation. The CATME software license costs \$2/student and has limited functionality.

Project Description

Twice a semester, EDNS courses require students to evaluate their team members. Because the student information is sensitive, it is imperative that the system be FERPA compliant and only accessible through Mines multi-pass.

This will be the 3rd and hopefully final CSCI 370 team working on this project. Per ITS compliance, the application is hosted on an AWS server with Mines multi-pass shibboleth integration. Basic data structures and input frameworks are established. Now the fun begins! Professors need to be able to set-up an evaluation. Students need to access the evaluation. Both professors and students need to view evaluation results. While basic wire forms of these pages exist, they need polish. Testing will be critical in this final stage.

This project entails a secure peer evaluation platform.

1. Allow administrator/professor to set up students, email and team definition with a CSV file
2. Allow administrator/professor to select evaluation questions from a list or uniquely create assessment questions
3. Allow administrator/professor to define a begin and end date/time for evaluation
4. Allow administrator/professor to send nag emails to all students who have not completed the evaluation
5. Allow administrator/professor to archive and access past evaluations for future reference
6. Allow students to provide confidential comments to instructor
7. Require students to provide feedback on every team member
8. Allow administrator/professor to release student comments to their peers via their Mines email
9. Allow administrator/professor to selectively prohibit a comment from being released
10. Create a CSV file of all student evaluations
11. Calculate a student grade based upon an administrator/professor defined grading scale

Desired Skill Sets

1. Algorithm development and evaluation
2. Database structures
3. Python, Javascript, React, Django

Preferred Team Size

3-5 students

Location of Work

Mines Campus

Client Liaison

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