Engineering Design & Society Team Evaluation 5.0

Background

Numerous project-based courses at the Colorado School of Mines require students to perform team evaluations – this course included! However, commercially available software is expensive, clunky and does not perform the required functionality. Currently, more than 2,000 students at the Colorado School of Mines use CATME software designed by Purdue University. At a price tag of $2/student there must be a more affordable solution.

Project Description

This is very much a real-life project and a way for you to see the fruits of your labor this semester! This is an opportunity for you to build a tool to be used throughout the Mines community for years to come. Because student information is sensitive, it is imperative that the evaluation software be FERPA compliant and only accessible through a secure sign-in.

A domain RamblinWreckReviews.com has been established. Beta version of this software will be piloted this semester. This will be the 5th and hopefully final CSCI 370 team working on this project. Per ITS compliance, the application is hosted on an AWS server under the Mines Amazon Enterprise account.

Basic functionality exists. However, there is still some work to be done. The basic functionality includes:

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

More work needs to be done to accomplish:

1. Calculate a student grade based upon an administrator defined grading scale
2. Add/remove students without having to upload a new CSV file
3. Automatic nag emails for students who have not completed
4. Stability – the website can not crash!

Desired Skill Sets:
- React and/or Django – there maybe a need to migrate from Django to React
- MySQL and/or MongoDB
- Amazon Web Services

Preferred Team Size: 3-5 students

Location of Work: Mines Campus

Client Liaison
Donna Bodeau
dbodeau@mines.edu
303.514.1421