



Fun with CS-CONNECT

Clients:

Cyndi Rader (crader@mines.edu)

Jeff Paone (jpaone@mines.edu)

Background:

CS-CONNECT is a social site created by students at Mines *for* students at Mines. The site was originally developed and deployed during Spring 2014. Since that time, the site has received numerous updates and extensions. During spring 2017, a team of 8 students ported the site from Laravel 4 to Laravel 5 (Laravel is the MVC framework we used to develop the site) and made a few improvements (e.g., the site now uses multipass). The basic functionality of the site was ported, but additional functionality remains.

This Project:

The purpose of this field session project is to add a few of the features that we didn't have time for during the spring port. Specifically:

- High Scores Competition – Games! During dead week, the CS-CONNECT site hosts a high game scores competition, where students can play games created by other students. Scores are posted to the site and displayed. For this project, we need to update the existing games to work with the new version of CS-CONNECT, create an easier way for the admin to set up these competitions, and write a new set of games to be included during the competitions (i.e., we want you to write a few fun games in JavaScript – woo hoo!)
- CS Challenge Question. Prior versions of the site had a CS challenge question. The goal was to present Mines students with questions that are similar to those they might find on interviews or coding competitions. This feature required an admin to post and rank questions. We are looking to update this functionality, maybe by pulling questions directly from other sites (e.g., <https://projecteuler.net/> or <https://www.reddit.com/r/dailyprogrammer/>).
- Admin functionality/home page. The spring IS team ported most of the admin functionality, but a few features still need to be coded, such as a calendar.

Team Size and Location:

This project is suitable for 3-4 students. Location is flexible.

Skills:

This project will help you develop web programming skills, including use of: HTML, CSS, JavaScript, MySQL, PHP and Laravel (an MVC framework). All of these skills will look good on a resume.

Additionally, the project should help you enhance your ability to work with existing code, which will be very important in the workplace.

