Abstract

In many of the CSCE courses, instructors have students complete and submit peer reviews for group work, with students giving a grade and comments to their other members. These submissions have usually been submitted through web-based course management systems such as Canvas and Blackboard, or in some cases through email. Completing peer reviews like this can be ineffective and slow since the instructors/graders will have to individually review each form.

The goal of this project will focus on creating a web-based/mobile application to facilitate this process for both students and instructors by using Google Forms for the students to complete their forms, and gather responses for the instructor. The system itself will then calculate grades for the instructors discretion, along with submission message in certain cases.

Challenges

- Time & Backup Management : We faced issues with properly managing our time on tasks and following a consistent schedule along with properly backing the server.
- Refreshers on Front/Back end Development : Constantly having to check syntax on PHP, HTML, MYSQL and Javascript due to lack of experience with such languages.
- Website Design : Properly designing a website that is visually appealing but also conveys correct and formatted information.

Lessons Learned

- Properly coordinating data between pages that is persistent.
- Using custom and 3rd party stylesheets.
- Properly connecting to an LDAP and using it for authentication.
- Formatting and processing MYSQL data/queries using PHP

Potential Future Improvements

The site is currently available for use for Keathly’s use, however we would like to expand the use of the system as there are elements in place that could potentially allow for more instructors especially in the CSCE department. This will require flexibility with LDAP authentication system and readjusting modules in place to allow expanded use. However, if another instructor would like to use the system they will have to be manually added by an administrator.

As well as potentially expand the usage of the site to better accommodate mobile platforms.