Mines Canvas QuickQuizGrader 3.0

Client
- Dr. Jeffrey Paone (jpaone {at} mines [dot] edu)

Project:

Mines currently uses Canvas as its Learning Management System (LMS). Canvas has a number of useful features for course organization, content, and delivery, but it also has some shortcomings. One area that falls into both of the above categories is the Quiz feature within Canvas.

Quizzes are easy to administer from both the instructor and student perspective. However, the quizzes are cumbersome to grade if questions are not True/False or Multiple Choice. As instructors, we could create every quiz to fit those two question types but effective assessment will use a variety of questioning methods. If a question is fill in the blank or free response, then they need to be graded one response at a time. For classes of 300 students, this is a time consuming process that is error prone to manually apply the same rubric across all questions.

We, as instructors, need a web tool that allows us to view all responses to one question at a time. The instructor will have the ability to create a rubric for each question. When grading the question, criteria from the rubric can be selected which will both grade the question and autogenerate comments as feedback to the student.

The team for this project will expand an existing application that leverages the Canvas API and deploy the tool to the Mines Canvas system by working with ITS. Many of the implementation details are flexible, allowing for creativity on the part of the team, but will need to satisfy a set of functional requirements. Additionally, there are opportunities for stretch goals and add-ons as specified by the team.

Team Size:
- 3-4

Skills:
- Web Programming (JavaScript / C# / ASP.Net)
- REST API
- OAuth2 Authentication

Location:
- Mines Campus