Introduction to Software Engineering Final Project Submission

CSCI 380 - M01 | Fall 2017 | Team 5

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Introduction

Our software is built to help professors create, store, and distribute different types of exams with ease. Whether it's a quiz, midterm, or the final for the class, our users will be able to create a exams with ease. They will create a pool of questions, then using those questions generate whatever type of test they'd like, even different versions if desired. This can significantly cut down the time professors need to take to make up exams and keeps their questions for multiple courses in an organized and easy to use tool. By cutting down on wasted time doing logistical office work, we hope professors will have the opportunity to spend more time with their students, providing a better learning experience for everyone.
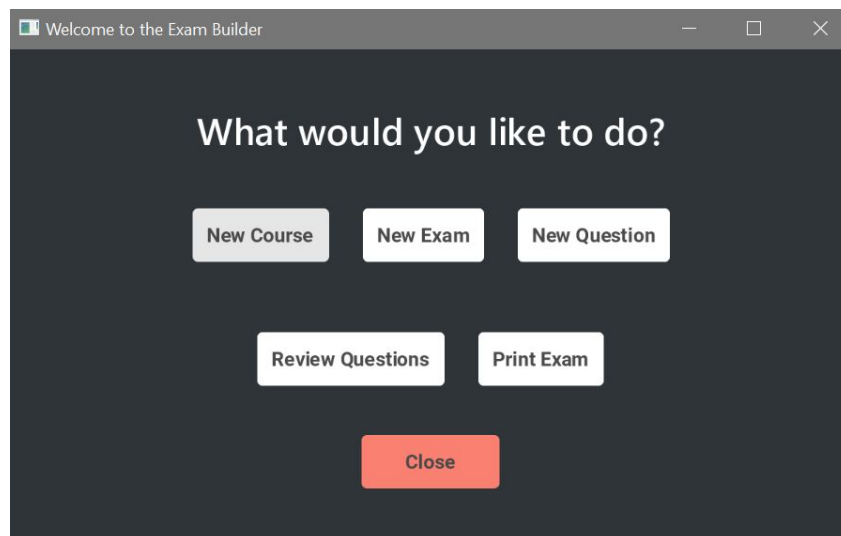
Overall Description

Our software is split into five primary actions: New Course, New Exam, New Questions, Review Questions, and Print Exam. This will allow the user to handle several courses and exams. If the professor teaches at several schools, wants to make several versions of a test, or release a test via blackboard, it can all be done with ease.

System Features

The program uses a database hosted on a server to allow the users to access their questions and tests from anywhere. Users can create as many courses, questions, and exams as they'd like. Professors have the options to make quizzes, midterms, and finals. The software is also able to customize the weight of each question and the test as a whole. Lastly the program is able to print out the test in a variety of ways including just the questions ready for students to take, the questions and answers for the professor, and in Blackboard format ready to upload.

GUI Screenshots

Main Menu

Creating a New Exam

College Name	Course ID	Question ID	Question Type	Question Text
NYIT	ABCD-1234	ABCD-1234Quiz20171208190523	Multiple Choice	How many stat
NYIT	ABCD-1234	ABCD-1234Quiz20171209024105	Essay	Write a response of no more than 500 words, using what yo
NYIT	ABCD-1234	ABCD-1234Quiz20171208192223	Fill in the Blank	At the CTL [A] and
NYIT	ABCD-1234	ABCD-1234Quiz20171208192254	Fill in the Blank	At the C
NYIT	ABCD-1234	ABCD-1234Quiz20171208194027	Multiple Answer	Which of the followir
NYIT	ABCD-1234	ABCD-1234Quiz20171208204236	Matching Question	Match the famous battles and the
NYIT	ABCD-1234	ABCD-1234Quiz20171209024447	Numeric Response	
NYIT	ABCD-1234	ABCD-1234Quiz20171208203124	Ordering Question	Put the following famous battle
NYIT	ABCD-1234	ABCD-1234Quiz20171209024509	Short Response	Describe the fl

Click the question you want to delete and then click the DELETE button and it will be deleted forever ---> Delete

Close

Reviewing Questions

College Name	Course ID	Question ID	Question Type	Question Text	Weight	Database Table	
NYIT	ABCD-1234	ABCD-1234Q...	Multiple Choice	How many state...	10	MC_Table	
NYIT	ABCD-1234	ABCD-1234Q...	Essay	Write a respons...	10	ESS_Table	
NYIT	ABCD-1234	ABCD-1234Q...	Fill in the Blank	At the CTL [A] a...	10	FIB_Table	
NYIT	ABCD-1234	ABCD-1234Q...	Fill in the Blank	At the CTL [A] B...	10	FIB_Table	
NYIT	ABCD-1234	ABCD-1234Q...	Multiple Answer	Which of the foll...	10	MA_Table	
NYIT	ABCD-1234	ABCD-1234Q...	Matching Questi...	Match the famo...	10	MQ_Table	
NYIT	ABCD-1234	ABCD-1234Q...	Numeric Respon...	e^3 = ?	10	NR_Table	

Selected Questions:

College Name	Course ID	Question ID	Question Type	Question Text	Weight	Database Table

No content in table

Total Mark: 0

Click the question you want to add and then click the ADD button ---> Add

Click the question you want to delete and then click the DELETE button ---> Delete

Print Q Only   Print Q&A   Print BB Format   Close

Configuring and Printing Exams

Future Work Projection

Some of the things we'd love to add and improve in our program is an improved login system that allows for multiple users across different platforms. Also a more secure account system, perhaps tied to an email and options for two-factor authentication. We'd also look into a feature allowing professors to share questions and exams with each other. This could give a bigger question pool for professors teaching the same course to use and can also assist new professors getting started in a course with a pool of questions and exams. Another idea would be to add the ability to create different types of homework and projects through the software. We'd would consider expanding the program to include tracking and organizing the grades students receive for their exams and work, allowing our tool to be a one stop shop for all the professor's assigned work and grading needs.