

# Comp 2005 Software Engineering

## Term Project

### Vladimir Andrade

Revisions to the document:

- 1.) Made connection to the requirements list much clearer
- 2.) Changed wording on certain parts of explanation to make it easier to understand
- 3.)

## **Create a quiz:**

This component is only accessible by the instructor who is verified to be logged in by the authentication component of the project. If there is a student logged in, the component is not accessible.

**Note: There are mandatory requirements from the project requirements list in this document. However they can still be found in the requirements html.**

Quizzes for the initial release will be only multiple choice questions, hereby referred to by the acronym MCQ. Created quizzes are specifically tied to an instructor's login.

Instructors first and foremost will be able to create a quiz for their course that they are assigned to. This will coincide to the first requirement in the requirement list for project listed as **1.2.1 "Instructors can create a Quiz"**.

The instructor will be able to manage quiz banks with this component. (**See requirements 1.2.3 "Questions are entered in a Quiz Bank"**). They will have the ability to create questions, choices and answers as well the ability to edit or copy already existing questions. MCQ can be made to have multiple answers. This data will be stored so that other components will be able to access it when needed.

Quiz content can also be managed via this component. It should be noted that an instructor cannot access the quizzes made by another instructor. Quizzes along with their questions are able to be added/removed as seen fit. The time limit, start/end time and number of attempts will all be editable/inputtable by the instructor (**See requirements 1.2.2 - 1.2.2.5,, 1.2.7, and 1.2.10**). Quizzes can be edited and/or duplicated at any time (**See requirement 1.2.12**) Quiz access can be restricted/granted to a number of students.

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#### Use Case for Create Quiz Component

**Title:** Create Quiz

**Primary Actor:** Instructor

**Stakeholders and Interests:**

Instructor: wants to create questions for students

Student: wants to receive questions in a usable format

**Precondition:** User with Instructor privileges logged in already.

**Trigger:** Instructor requests to create a new quiz.

**Main Scenario:**

1. Instructor selects option to create a new quiz
2. SuD displays page to create quiz
3. Instructor specifies name of quiz, people in the quiz, weight on final grade, start and end times, time limits and number of attempts allotted.
4. SuD stores quiz
5. Instructor adds a question to the quiz, specifying answers, weight
6. SuD stores question info
7. Instructor repeats 5 and 6 until they are satisfied with quiz.
8. SuD records finalized quiz

**Extensions:**

7a. Edit quiz

7a1. Instructor accesses quiz edit function

7a2. SuD returns to 5 in Main Scenario

8a. Edit quiz

8a1. Instructor accesses quiz edit function

8a2. SuD returns to 5 in Main Scenario

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**Requirements List**

**Instructors can create a quiz**

***1.2.1 Instructor can create a quiz***

***1.2.2 Quiz Attributes***

***1.2.2.1 Dates***

***1.2.2.2 Attempts***

***1.2.2.3 Multiple Answers***

***1.2.2.4 Weighting***

***1.2.2.5 Student List***

***1.2.3 Questions are entered into a Quiz Bank***

***1.2.7 Instructor can add dates***

***1.2.10 Instructor can specify number of possible attempts***

***1.2.12 Instructor can modify existing quiz***