Team Deliverable #2

The testing process

Sakai is large and has a lot of functionality for two types of users, teachers and students. We thought the most important aspects to test were those that applied to both users, the system requirements related to quizzes, including the creation by the teacher user, the participation by the student user, and grading performed by the system. Therefore, we will aminly be working with the test and quizzes tool of Sakai 11. We have created a database that holds sample data to allow us to access the roles of the entire simulated class.

Requirements traceability

One of the benefits of working with Sakai is the documentation. Our team figured this was the best place to look in order to tease out some of the requirements for this system. Below is the documentation we used to find some of these requirements.

Tests and Quizzes User Guide

Functional Requirements:

1. A teacher should be able to add, edit, and delete assessments through the Test and Quiz tool
2. The test and quizzes tool should allow for an instructor to view and update a quiz or test grade for individual students.
3. The test and quizzes tool should for the deletion of a quiz or test.
4. The test and quizzes tool should display a list of a quiz or test grades.

Nonfunctional Requirements:

1. The test and quizzes tool should allow the instructor to create quizzes and tests which include multiple types of questions.
2. The test and quizzes tool should sort the list of quiz or test grades according to student name, id, grade, submission time, and submission count.

Testing schedule

Sept 22 - Oct 2 -- test making \ Oct 3 - Oct 9 ---- test taking \ Oct 10 - Oct 16 -- test grading \ *Oct 18 ----------- deliverable due*

Hardware and software requirements

Sakai 11 Maven 3.2.5 Java 1.8 Tomcat 8

System tests

test case ID: 01

test case description: A teacher user will create a 1 question, multiple choice quiz worth 10 points

related requirement(s): A teacher should be able to add, edit, and delete assessments through the Test and Quiz tool

pre-conditions: The user must be logged into an account with permission to change course content

test steps:

1. Navigate to the Test and Quizzes tool
2. Create an assessment with the title "MultChoiceQuiz"
3. Select multiple choice on "Insert New Question" dropdown
4. Select questions point value as 10
5. Edit question text
6. Edit question answers
7. Confirm correct answer
8. Save assessment

expected results: A new, unpublished assessment named "MultChoiceQuiz" should be accessible through the Assessments tab

---

test case ID: 02

test case description: A teacher user will add a question to an unpublished, preexisting assessment

related requirement(s): A teacher should be able to add, edit, and delete assessments through the Test and Quiz tool

pre-conditions: The user must be logged into an account with permission to change course content. An unpublished assessment must be created and accessible.

dependencies: Test Case 01

test steps:

1. Navigate to the Test and Quizzes tool

2. Select unpublished assessment created in Test Case 1 named "MultChoiceQuiz"

3. Select True/False from "Insert New Question" dropdown

4. Select questions point value as 10

5. Edit question text

6. Confirm correct answer

7. Save assessment

expected results: "MultChoiceQuiz" should now contain both a multiple choice and a T/F question.

---

test case ID: 03

test case description: A teacher will delete a preexisting assessment

related requirement(s): A teacher should be able to add, edit, and delete assessments through the Test and Quiz tool

pre-conditions: The user must be logged into an account with permission to change course content. An unpublished assessment must be created and accessible.

dependencies: Test Case 01

test steps:

1. Navigate to the Test and Quizzes tool

2. Find assessment named "MultChoiceQuiz" in Assessments tab

3. Select "Remove" from the "Select Action" dropdown

4. Confirm removal of assessment

expected results: "MultChoiceQuiz" should no longer be found under the Assessments tab