

# Test Plan

- A. Student Begin Test 001, Begin Test, Severity 1
  - B. Run student client and input first and last name. Then click the open test button.
  - C. A menu with folder navigation should open up.
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- A. Student Begin Test 002, Begin Test, Severity 1
  - B. Run student client and input first and last name. Then open a test saved previously with instructor client.
  - C. First question of the specified test should be loaded into the client UI.
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- A. Student Begin Test 003, Begin Test, Severity 3
  - B. Run student client and input first and last name. Then open a random file.
  - C. Client should not crash, and prompt user about unsupported file format.
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- A. Student Begin Test 004, Begin Test, Severity 3
  - B. Run student client and input only first name. Then click open test.
  - C. Should prompt to enter last name.
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- A. Student Begin Test 005, Begin Test, Severity 3
  - B. Run student client and input only last name. Then click open test.
  - C. Should prompt to enter first name.
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- A. Student Begin Test 006, Begin Test, Severity 3
  - B. Run student client and input nothing. Then click open test.
  - C. Should prompt to enter first name and last name.
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- A. Student Begin Test 007, Begin Test, Severity 3
  - B. Run student client and enter first name and last name in numbers. Then click open test.
  - C. Should prompt user to re-enter and should not allow user to go further.
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- A. Student Begin Test 008, Begin Test, Severity 3
  - B. Run student client and enter first name and last name. Then select to open a test the student saved before.
  - C. The question which the student left before should be loaded into the client UI.
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- A. Student Take Test 001, Answer Free Response Question, Severity 1
  - B. Type response in text field and submit.
  - C. Instructor should see the submitted answer in grade test mode.

- A. Student Take Test 002, Answer Free Response Question, Severity 2
- B. Leave the text field blank and submit.
- C. Instructor should see the submitted empty answer in grade test mode.

- A. Student Take Test 003, Answer Free Response Question, Severity 2
- B. In the text field, type over 3000 characters and submit.
- C. Instructor should see the submitted answer in grade test mode.

- A. Student Take Test 004, Answer Free Response Question, Severity 2
- B. In the text field, type non-alphanumeric answer and submit.
- C. Instructor should see the submitted answer correctly in grade test mode.

- A. Student Take Test 005, Answer Multiple Choice Question, Severity 1
- B. Select a random choice and submit.
- C. Instructor should see the submitted choice in grade test mode.

- A. Student Take Test 006, Answer Multiple Choice Question, Severity 2
- B. Select every choice, and then select the second choice and submit.
- C. Instructor should see the second choice selected in grade test mode.

- A. Student Take Test 007, Answer Multiple Choice Question Boundary, Severity 3
- B. Submit without selecting anything.
- C. Client should prompt user to select an answer.

- A. Student Take Test 008, Answer Coding Question Compile, Severity 1
- B. Type "int a = 0" in text field and click compile button.
- C. Compile field should show compilation error about missing column.

- A. Student Take Test 009, Answer Coding Question Compile, Severity 2
- B. Type a piece of code that doesn't contain compilation error in text field and click compile button.
- C. Compile field should show nothing.

- A. Student Take Test 010, Answer Coding Question Compile, Severity 3
- B. Leave text field blank and click compile button.
- C. Compile field should show nothing.

- A. Student Take Test 011, Answer Coding Question, Severity 2
- B. Type a piece of code that doesn't contain compilation error in text field and click submit.
- C. Instructor should see the submitted code in grade test mode.

- A. Student Take Test 012, Answer Coding Question Compile, Severity 3
- B. Leave text field blank and click compile button.
- C. Compile field should show nothing.

- A. Student Take Test 013, Previous Button, Severity 2
- B. Click on previous button.
- C. It should show the previous question and the answer you entered before if there was one.

- A. Student Take Test 014, Previous Button, Severity 3
- B. Click on previous button several times (50 times).
- C. If it reaches the first question then previous button should be disabled.

- A. Student Take Test 015, Next Button, Severity 2
- B. Click on previous button.
- C. It should show the next question and the answer you entered before if there was one.

- A. Student Take Test 016, Next Button, Severity 3
- B. Click on next button several times (50 times).
- C. If it reaches the last question then next button should be disabled.

- A. Student Take Test 017, Save Test, Severity 2
- B. Click on submit button.
- C. It should submit the test taken by the student containing the student's answer.

- A. Instructor Main Screen 001, Create Test, Severity 1
- B. Click on Create Test button.
- C. Navigate to screen for creating a test.

- A. Instructor Main Screen 002, Edit Test, Severity 1
- B. Click on Edit Test button.
- C. Navigate to screen for editing a test.

- A. Instructor Main Screen 003, Grade Test, Severity 1
- B. Click on Grade Test button.
- C. Navigate to screen for grading a test.

- A. Instructor Create Test 001, Add Question, Severity 1
- B. Click on button for adding a multiple choice question, input question content, multiple choices content and the answer.
- C. Record the question just added.

A. Instructor Create Test 002, Add Question, Severity 3

B. Click on button for adding a multiple choice question, input multiple choices content and the answer, leaving the question content empty.

C. Prompt the instructor to enter question content.

A. Instructor Create Test 003, Add Question, Severity 3

B. Click on button for adding a multiple choice question, input question content, multiple choices content, leaving the answer empty.

C. Prompt the instructor to enter answer.

A. Instructor Create Test 004, Add Question, Severity 1

B. Click on button for adding free response question, input question content and the answer.

C. Record the question just added.

A. Instructor Create Test 005, Add Question, Severity 3

B. Click on button for adding free response question, input answer, leaving the question content empty.

C. Prompt the instructor to enter question content.

A. Instructor Create Test 006, Add Question, Severity 3

B. Click on button for adding free response question, input question content, leaving the answer empty.

C. Prompt the instructor to enter answer.

A. Instructor Create Test 007, Add Question, Severity 1

B. Click on button for adding programming question, input question content and the answer.

C. Record the question just added.

A. Instructor Create Test 008, Add Question, Severity 3

B. Click on button for adding programming question, input answer, leaving the question content empty.

C. Prompt the instructor to enter question content.

A. Instructor Create Test 009, Add Question, Severity 3

B. Click on button for adding programming question, input question content, leaving the answer empty.

C. Prompt the instructor to enter answer.

A. Instructor Create Test 010, Previous Question, Severity 2

B. Click on previous button.

C. Go to previous question and load the content entered before.

- A. Instructor Create Test 011, Next Question, Severity 2
- B. Click on next button.
- C. Go to next question and load the content entered before if there was one.

- A. Instructor Create Test 012, Delete Question, Severity 1
- B. Click on button for deleting a multiple choice question.
- C. The question should be deleted.

- A. Instructor Create Test 013, Delete Question, Severity 1
- B. Click on button for deleting a free response question.
- C. The question should be deleted.

- A. Instructor Create Test 014, Delete Question, Severity 1
- B. Click on button for deleting a programming question.
- C. The question should be deleted.

- A. Instructor Create Test 015, Save Test, Severity 1
- B. Click on button for saving the test. Select the location for the test file. Click on save button
- C. Test content should be saved.

- A. Instructor Create Test 016, Save Test, Severity 1
- B. Click on button for saving the test. Select the location for the test file. Click on cancel button
- C. Test content should not be saved.

- A. Instructor Create Test 017, Edit Property, Severity 1
- B. Click on button for editing test property. Input valid date, valid start time and valid end time for the test.
- C. Test property should be saved.

- A. Instructor Create Test 018, Edit Property, Severity 3
- B. Click on button for editing test property. Input invalid date, valid start time and valid end time for the test.
- C. Prompt the instructor to enter valid date.

- A. Instructor Create Test 019, Edit Property, Severity 3
- B. Click on button for editing test property. Input valid date, invalid start time and valid end time for the test.
- C. Prompt the instructor to enter valid start date.

- A. Instructor Create Test 020, Edit Property, Severity 3

B. Click on button for editing test property. Input valid date, valid start time and invalid end time for the test.

C. Prompt the instructor to enter valid end time.

A. Instructor Edit Test 001, Load Test, Severity 1

B. Select location of existing test and click ok.

C. Load the stored test.

A. Instructor Edit Test 002, Load Test, Severity 1

B. Select location of existing test and click cancel.

C. Do not load the stored test.

A. Instructor Edit Test 003, Add Question, Severity 1

B. Click on button for adding a multiple choice question, input question content, multiple choices content and the answer.

C. Record the question just added.

A. Instructor Edit Test 004, Add Question, Severity 3

B. Click on button for adding a multiple choice question, input multiple choices content and the answer, leaving the question content empty.

C. Prompt the instructor to enter question content.

A. Instructor Edit Test 005, Add Question, Severity 3

B. Click on button for adding a multiple choice question, input question content, multiple choices content, leaving the answer empty.

C. Prompt the instructor to enter answer.

A. Instructor Edit Test 006, Add Question, Severity 1

B. Click on button for adding free response question, input question content and the answer.

C. Record the question just added.

A. Instructor Edit Test 007, Add Question, Severity 3

B. Click on button for adding free response question, input answer, leaving the question content empty.

C. Prompt the instructor to enter question content.

A. Instructor Edit Test 008, Add Question, Severity 3

B. Click on button for adding free response question, input question content, leaving the answer empty.

C. Prompt the instructor to enter answer.

- A. Instructor Edit Test 009, Add Question, Severity 1
- B. Click on button for adding programming question, input question content and the answer.
- C. Record the question just added.

- A. Instructor Edit Test 010, Add Question, Severity 3
- B. Click on button for adding programming question, input answer, leaving the question content empty.
- C. Prompt the instructor to enter question content.

- A. Instructor Edit Test 011, Add Question, Severity 3
- B. Click on button for adding programming question, input question content, leaving the answer empty.
- C. Prompt the instructor to enter answer.

- A. Instructor Edit Test 012, Previous Question, Severity 2
- B. Click on previous button.
- C. Go to previous question and load the content entered before.

- A. Instructor Edit Test 013, Next Question, Severity 2
- B. Click on next button.
- C. Go to next question and load the content entered before if there was one.

- A. Instructor Edit Test 014, Delete Question, Severity 1
- B. Click on button for deleting a multiple choice question.
- C. The question should be deleted.

- A. Instructor Edit Test 015, Delete Question, Severity 1
- B. Click on button for deleting a free response question.
- C. The question should be deleted.

- A. Instructor Edit Test 016, Delete Question, Severity 1
- B. Click on button for deleting a programming question.
- C. The question should be deleted.

- A. Instructor Edit Test 017, Save Test, Severity 1
- B. Click on button for saving the test. Select the location for the test file. Click on save button
- C. Test content should be saved.

- A. Instructor Edit Test 018, Save Test, Severity 1
- B. Click on button for saving the test. Select the location for the test file. Click on cancel button
- C. Test content should not be saved.

- A. Instructor Edit Test 019, Edit Property, Severity 1
- B. Click on button for editing test property. Input valid date, valid start time and valid end time for the test.
- C. Test property should be saved.

- A. Instructor Edit Test 020, Edit Property, Severity 3
- B. Click on button for editing test property. Input invalid date, valid start time and valid end time for the test.
- C. Prompt the instructor to enter valid date.

- A. Instructor Edit Test 021, Edit Property, Severity 3
- B. Click on button for editing test property. Input valid date, invalid start time and valid end time for the test.
- C. Prompt the instructor to enter valid start date.

- A. Instructor Edit Test 022, Edit Property, Severity 3
- B. Click on button for editing test property. Input valid date, valid start time and invalid end time for the test.
- C. Prompt the instructor to enter valid end time.

- A. Instructor Grade Test 001, Open Test, Severity 1
- B. Click on button for opening a test taken by a student.
- C. Load the test taken by the student.

- A. Instructor Grade Test 002, Grade Question, Severity 1
- B. Assign score to the question, enter comment for the question, then click button for saving.
- C. Save the graded question.

- A. Instructor Grade Test 003, Grade Question, Severity 3
- B. Assign negative score to the question, enter comment for the question, then click button for saving.
- C. Prompt the instructor to enter a valid score.

- A. Instructor Grade Test 004, Grade Question, Severity 3
- B. Assign score greater than the possible score to the question, enter comment for the question, then click button for saving.
- C. Prompt the instructor to enter a valid score.

- A. Instructor Grade Test 005, Save Grading, Severity 1
- B. Click on the save button



C. The grading of the test should be saved.

A. Instructor Begin Test 001, Begin Test, Severity 1

B. Click on the Begin Test button

C. A window for directory selection will appear.

A. Interaction Test 001, Open file on their own computer, Severity 1

B. In instruction mode create an exam and save it. Then open that file in another computer.

C. The file should open successfully.

A. Interaction Test 002, Open file on their own computer, Severity 1

B. In instruction mode create an exam and save in linux system. Then open that file in a windows computer.

C. The file should open successfully.

A. Interaction Test 003, Open file on their own computer, Severity 1

B. In instruction mode create an exam and save in Mac system. Then open that file in a windows computer.

C. The file should open successfully.

A. Interaction Test 004, Open file on their own computer, Severity 1

B. In instruction mode create an exam and save in Mac system. Then open that file in a Linux computer.

C. The file should open successfully.

A. Interaction Test 005, Open file on their own computer, Severity 1

B. In instruction mode create an exam and save in Linux system. Then open that file in a MAC computer.

C. The file should open successfully.

A. Interaction Test 006, Open file on their own computer, Severity 1

B. In instruction mode create an exam and save in Windows system. Then open that file in a MAC computer.

C. The file should open successfully.

A. Interaction Test 007, Open file on their own computer, Severity 1

B. In instruction mode create an exam and save in Windows system. Then open that file in a Linux computer.

C. The file should open successfully.

A. Interaction Test 008, Save file on their own computer, Severity 1

- B. Input the answer then save it in a Linux computer.
- C. The file should save successfully.

A. Interaction Test 009, Save file on their own computer, Severity 1

- B. Input the answer then save it in a Windows computer.
- C. The file should save successfully.

A. Interaction Test 010, Save file on their own computer, Severity 1

- B. Input the answer then save it in a Mac computer.
- C. The file should save successfully.