VORMUND

White Box Testing Log for Testify

Team 6

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Black Box Defects:

Defect #	Defect	How to correct the defect	Module	Severity
1	Open test application has its name changed to "Exit Test".	In StudentTestify.java, edit line 139, the functinon call 'open.setText()', so the parameter is "Open Test".	Student Client	S2
2	Click once on "exit test" will do nothing.	In StudentTestify.java, remove the first if statement in function 'openActionPerformed'. Also remove the global boolean variable 'openBool'.	Student Client	S2
3	Once test has been completed with MultipleChoice option, the user is given the option to open another test, but clicking this button does not open a file selection window.	In StudentTestify.java, the 'exit.addActionListener' inside the 'initComponents' function, attaches a function to the event that performs no task. Fill out the task and implement the function.	Student Client	S2
4	When a student opens a test file, the test does not open to question 1 (seems to like going to question 3)	There is an off by one error in the function 'setQuestionData' in StudentTestify.java. everytime QuestionBox.setText is called, it uses 'questionIndex + 1' when it should reference only 'questionIndex'.	Student Client	S2
5	Question 1 of a opened exam is not accessible to the student for all type of exams.	There is an off by one error in the function 'setQuestionData' in StudentTestify.java. everytime QuestionBox.setText is called, it uses 'questionIndex + 1' when it should reference only 'questionIndex'.	Student Client	S1
6	In a multiple choice exam, once a student has used the "Next" button to advance to the last question in	In StudentTestify.java, the function PreviousActionPefromed does not	Student Client	S2

	the exam the button is changed to say "Submit". Using the previous button will not change this and there is then no way to advance through to subsequent questions.	always decrement the question index by 1, but occasionally by 2. Remove the if block and only decrement the question index once. Also, the function checks to change a specific questions 'next' button from submit to next. This should be set to do the same for every questionIndex that is not the last.		
7	Opening a test file required the student to click the "Exit Test" button twice	In StudentTestify.java, edit line 139, the functinon call 'open.setText()', so the parameter is "Open Test".	Student Client	S3
8	Possible Points on exams are listed incorrectly as 25 regardless of the point values that were originally assigned to the questions	In StudentTestify.java set PointsPossible and PointsPossible2 to ("Points: " +Integee.toString(points))	Student Client	S2
9	Next button should not appear until a test has been open.	In StudentTestify.java set Next.enabled(false) right after creation. And in the action listener for the open button set Next.enabled(true)	Student Client	S3
10	Previous button should not appear until a test has been open.	In StudentTestify.java set Previous.enabled(false) right after creation. And in the action listener for the open button set Previous.enabled(true)	Student Client	S3
11	The prompts and answers get switched around when a student opens a test.	In StudentTestify the for prompt and answer are switched.	Student Client	S1
12	When the edit test functionality is accessed, opening an existing file will result in the last test question showing up as blank, and un-selectable through the dropdown, but can still be viewed through use of next and previous buttons	When the student client accesses a new test it need to reinitialize the swing components to refresh the screen.	Student Client	S2
13	Selecting "Grade Test" from the instructor client	In InstructorFirstScreen.java the method	Home Screen	S2

	start screen launches the "Create Test" window	gradeTestButtonActionPerformed calls the InstructionTestify main method when it should call the GraderTestify main method		
14	Selecting "Create Test" open a file open dialogue box, however upon selecting cancel, the "Create Test" window is launched	In the openExam() method in InstructorTestify.java the first else statement returns where it should close the window and open the InstructorFirstScreen again.	Home Screen	S2
15	Selecting "Edit Test" from the instructor client start screen launches the "Grade Test" window	Function editTestButtonActionPerformed() should be modified to open the InstructorTestify window instead of GraderTestify before closing the main Instructor program screen.	Home Screen	S2
16	The user is not able to save the test as selection of "Save" and "Save as" do not prompt the user to save the file to disk	Was unable to replicate the issue.	Create Test Window	S1
17	Adding a new option to a multiple choice question will erroneously add the newly created choice twice	Function addChoiceButtonActionPerformed() calls the addChoice function twice. One of these calls should be removed.	Create Test Window	S2
18	Navigation between created test questions using the Previous and Next buttons has been reversed	The code for nextQButtonActionPerformed() and prevQButtonActionPerformed() should be swapped. (The functions currently work in reverse.)	Create Test Window	S3
19	Fields unused by the different question types are properly greyed out, but still show the data that pertained to the previous question (File and Language)	Code must be added to nextQButtonActionPerformed() and prevQButtonActionPerformed() (as well as their mouseListener counterpart functions) to clear all text fields in the	Create Test Window	S3

		question form.		
20	Deleting a question will properly shift the questions following the deleted question up one position, but the question selection drop down will still erroneously show the old number of questions with the last item now incapable of being selected	Code must be added to the deleteMenuItemActionPerformed() function that removes a deleted question from the drop-down menu of questions in a test.	Create Test Window	S3
21	The prompt and answer fields are not greyed out before the user has selected new question	Code must be added so that the InstructorTestify window fields are set to un-editable before a user creates a new question.	Create Test Window	S3
22	The answer to short answer questions are not persistent	saveQuestions() function in InstructorTestify creates new string "answer" based on answerTestArea's content, however this is never saved to the question object. Should include question.setAnswer(answer)	Create Test Window	S2
23	When the user opens an existing file, the "Points Possible" field appears to not be stored or retrieved properly. Upon setting in for question one (which is required before viewing other questions), all subsequent questions do not appear to have this newly set possible points value	Function loadQuestion() in InstructorTestify.java that is called to retrieve the question information enables the pointsPossTextField but never sets its value to that from the loaded question. Include pointsPossTextField = loadQ.getPtsPossible()	Edit Test Window	S1
24	The answers to short answer questions are not properly saved to the output file	saveQuestions() function in InstructorTestify creates new string "answer" based on answerTestArea's content, however this is never saved to the question object. Should include question.setAnswer(answer)	Edit Test Window	S1
25	In drop down menu "Test", properties button doesn't	Wasn't able to replicate problem	Edit Test Window	S2

	do anything when clicked sometimes. Sometimes it works.			
26	When the prompt is entered for the first question it is copied to the last questions prompt as well.	Wasn't able to replicate the problem	Edit Test Window	S3
27	If you try to advance to the next question without entering a prompt or answer a dialog box comes up informing you that you must enter a value into those fields, which is correct. But it then advances you to the next question regardless.	The prevQButtonActionPerformed and nextQButtonActionPerformed handlers call saveQuestion(), and saveQuestion makes the check for an existing prompt/possible points value and then prevQButtonActionPerformed continues irregardless of result. Add a return value to the saveQuestion function so that prevQButtonActionPerformed can use discretion when loading the next/prev question	Edit Test Window	S2
28	When the properties window is opened apply must be clicked twice to close it.	The function called by the action handler is showProperties(). Within this function, two PropDialog instances have been mistakenly created. One of these should be removed to eliminate this problem.	Edit Test Window	S3
29	Every time a new multiple choice answer is added it makes sure there is a duplicate of every answer before. If there is not it makes one.	The function called by the action handler is addChoiceButtonActionPerformed(). Within this function, two addChoice() instances have been mistakenly created. One of these should be removed to eliminate this problem.	Edit Test Window	S3
30	If you make a new test while there are multiple choice options in populating the multiple choice field they are copied over to the new test.	The function newTest() needs to have the choiceList.removeAll() call to clear it out.	Edit Test Window	S3
31	In order to open a test file after the student has	The button name should be changed to	Edit Test Window	S3

	entered their username and password, the "Exit Test" button must be selected to open the file selection dialog box	"Open Test". In StudentTestify.java, open's button text should be set to "Open Test".		
32	In the Test Properties dialog box , clicking "Cancel" does not close the box.	The actionevent for the cancel button was doing nothing. Added the a dispose call to dispose of the window and go back to the original Test Window when Cancel is clicked.	Edit Test Window	S2
33	In the Test Properties dialog box, the initial start time is set to 0:00am	stTimeField was set incorrectly when setText was called. called timeFmt to format the start time correctly and called test.getDate within it to get the current time.	Edit Test Window	S3
34	In the Test Properties dialog box, anything can be added into Start/End time textboxes, even non-numerical values	When clicking save button, added a check for start/end time textboxes for any character that is not a number or letter.	Edit Test Window	S1
35	In the Test Properties dialog box, clicking "Apply" doesn't do anything but reset the form values	In the applyActionPerformed() method, save settings in class's instance variables	Edit Test Window	S1
36	In the Test Properties dialog box, clicking the "X" in the corner will simply open a new test properties box after closing the original one.	Change default close operation from DO_NOTHING_ON_CLOSE to DISPOSE_ON_CLOSE	Edit Test Window	S3
37	Opening an existing file will result in the last test question showing up as blank, and un-selectable through the dropdown, but can still be viewed through use of next and previous buttons	Change current - 1 expression to just current as an argument in getQuestion method	Edit Test Window	S2
38	When the instructor selects "Question -> Delete" from the top drop-down menu after working on a Multiple Choice problem, the answer choices are not cleared, even though the buttons are made	Add a .setText("") to each field in the questionDeleteActionPerformed() method	Edit Test Window	S3

	unclickable.			
39	Language label simply appears as "jabel3"	On open, whichLangLabel.setText() should be called and updated depending on the file extension of the source file	Grade Test Window	S3
40	Open key in file menu does not report an error when any other invalid file is opened, just does nothing	In openKeyMenuItemActionPerformed, there should be some kind of validation on the file name/extension	Grade Test Window	S2
41	Open Student Exam in file menu does not report an error when any other invalid file is opened, just does nothing	In openFileChooserActionPerformed, there should be some kind of validation on the file name/extension	Grade Test Window	S2
42	Clicking "Show Summary" button does not do anything	this.setVisisble(true) should be called in the SummaryDialog constructor	Grade Test Window	S2
43	The Exit option in the file menu does not exit; it simply does nothing.	Add setVisible(false) or other exit method in exitMenuItemActionPerformed method	Grade Test Window	S2

White Box Defects:

Defect #	Defect	How to correct the defect	Module	Severity
1	When user launches the grader module and before a student test is opened, all boxed are greyed out except for the comments box and choices box	As with other elements from within the window, upon initial setup, they should be set to .setEditable(false) in the initComponents() function called by the constructor	Grader	S3
2	If no first and last name is provided, an error message in red will prompt for one. After inputting both and trying to open a new test, clicking Cancel and returning to the Student Login window, the previous warned message still appears despite having a first and last name in.	When the open test button is clicked, the error message will be changed to a blank entry instead.	Student	S3
3	If we input a first and last name and click to open a test, then click cancel both previous inputted first and last name still appear.	When the open test button is clicked, the username and password will be cleared out.	Student	S3
4	First and last name do not have any restrictions regarding special characters.	Added a check for special characters when first and last name are inputted.	Student	S3
5	First and last name do not have any restrictions regarding length of characters.	Added a restriction of at least 4 characters for each.	Student	S3
6	When grading a short answer question, the grader will gray out the language label and not the actual language value itself.	Function initComponentLists should be modified to set whichLangLabel as a disabled item instead of having langLabel set as disabled	Grader	S3
7	Once a key is loaded by the grader, the answers for	Problem can be traced back to the	Grader	S2

	the given key are not shown	InstructorTestify file in which question answers are not saved properly. See previous problem description and solution in Black-Box test area		
8	When viewing a question in the grader, even a successfully loaded question (with prompt printed properly) will have the prompt textBox greyed out.	loadQuestion() properly handles setting the text for the textArea, however, it should also contain the following statement promptTextArea.setEnabled(true); to properly enable the textArea for viewing	Grader	S3
9	The previous button will actually advance one question when grading an exam.	The prevQButtonActionPerformed handler function should be revised to perform a current instead of a current++ operation	Grader	S2
10	The next button will actually go back one question when grading an exam.	nextQButtonActionPerformed function that handles a next button click should be revised to perform a current++ instead of a current	Grader	S2
11	Grader will check for exam to be of same length, but they still may not necessarily be the same exam.	Add in a check within openStudentMenuItemActionPerformed() handler function to (in addition to checking against length), iterate over both tests and ensure that factors such as the question types and the prompts are identical	Grader	S3
12	For programming questions, the grader will display the language used as being C regardless of actual question language.	Instead of universally setting the text of whichLangLabel to "C", do a switch case of the lang value of the given question and set the value of whichLangLabel accordingly	Grader	S2
13	Many functions such as loadStudentAnswer, loadKeyAnswer, etc, have a conditional that will only	Simply remove this if statement and rely upon the current value validation in	Grader	S1

	allow them to retrieve said values if the "current" value is greater than one. Because of this the first question can never be properly graded.	the calling function, or add in functionality to ensure that current is greater than 0 and <= the total number of question for the given test		
14	An extra JTextField was created and is unused.	Deleted the extra JTextField called JTextField1.	Student	S3
15	An unused JFrame was created.	Removed the extra JFrame called JFrame1	Student	S3
16	Student can put only their first name and it will prompt to open test option.	Adding a check for both Students first and last name.	Student	S2
17	saveAnswer function does not have the multiple choice case to save answers.	Added a third case for when the student wants to save answers for a multiple choice question.	Student	S2
18	returnVal in openActionPerformed has been created and is unused.	Removed returnVal.	Student	S3
19	In saveTestObject function, the objectoutputstream is not closed.	Removed the comment slash off the close call.	Student	S2
20	When taking a short question or programming exam, you can never end the test once you get to the last question.	Added the check for both test type cases in the NextActionPerformed function.	Student	S2
21	When taking a multiple choice exam, the prompt and choices get skipped. You start at 3, then go 5 for prompts. For choices, you start with choices for prompt 2 and then skip to choice for prompt 4.	Fixed it to prompt the correct questions and choices for multiple choice exam within the setQuestionData function.	Student	S2
22	Several off by one errors are spread through NextActionPerformed method in StudentTestify.java	Remove if block incrementing index by 2 and check for minimum range.	Student	S2
23	A new test properties box is not made when a new test is created.	In newTest() after the test object is instantiated it should call the new	Instructor	S3
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