

Movie Quiz Black Box Test Plan

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Introduction

The Movie Quiz program is a simple quiz program that allows the user to create and to take movie quizzes consisting of questions ranging in difficulty. The black box test plan describes tests file reading, taking the movie quiz from a correctly formatted file, adding questions to the movie trivia quiz, and writing the quiz questions to an .xml file.

The program is started by running the MovieQuizGUI class. To do this, if the user is using Eclipse, navigate to the MovieQuizGUI class in the package viewer. Right click on the MovieQuizGUI.java file and select the Run As > Java Application option.

Shared Precondition for Tests 15 to 19:

Tests 15 to 19 all have the precondition that the file question1.xml exists and has correctly formatted questions. It has 3 standard questions, 4 elementary questions, and 2 advanced questions. The Question for the first Standard Question is "Standard Question 1", the choices are, respectively, "Choice a", "Choice b", "Choice c", and "Choice d", and the Answer is "d". The Question for the second Standard Question is "Standard Question 2", the choices are, respectively, "Choice a", "Choice b", "Choice c", and "Choice d", and the Answer is "c". The Question for the third Standard Question is "Standard Question 3", the choices are, respectively, "Choice a", "Choice b", "Choice c", and "Choice d", and the Answer is "a".

The Question for the first Elementary Question is "Elementary Question 1", the choices are, respectively, "Choice a", "Choice b", "Choice c", and "Choice d", the Answer is "d", and the Hint is "Here is a hint. The correct answer is d." The Question for the second Elementary Question is "Elementary Question 2", the choices are, respectively, "Choice a", "Choice b", "Choice c", and "Choice d", the Answer is "c", and the Hint is "Here is a hint. The correct answer is c." The Question for the third Elementary Question is "Elementary Question 1", the choices are, respectively, "Choice a", "Choice b", "Choice c", and "Choice d", the Answer is "a", and the Hint is "Here is a hint. The correct answer is a." The Question for the fourth Elementary Question is "Elementary Question 1", the choices are, respectively, "Choice a", "Choice b", "Choice c", and "Choice d", the Answer is "b", and the Hint is "Here is a hint. The correct answer is b."

The Question for the first Advanced Question is "Advanced Question 1", the choices are, respectively, "Choice a", "Choice b", "Choice c", and "Choice d", the Answer is "d", and the Comment is "Great work!" The Question for the second Advanced Question is "Advanced

Question 1”, the choices are, respectively, “Choice a”, “Choice b”, “Choice c”, and “Choice d”, the Answer is “c”, and the Comment is “Good job!”

The user has started the MovieTrivia program. The user has selected the file browser and browsed to the file location of the questions1.xml file and selected questions1.xml file. The user has selected the Open button and the initial GUI window has opened displaying options to Add Question, Take Quiz, and Quit.

Test ID	Description	Expected Results	Actual Results
1. fileDoesNotExist	<p>Preconditions: The file noQuestions.xml does not exist</p> <p>Start the MovieTrivia program. Enter noQuestions.xml into the Program file browser.</p> <p>Select the Open button (check the result)</p> <p>Press OK.</p>	<p>Error window: Invalid File</p> <p>Program ends execution.</p>	<p>Error window: Invalid File</p> <p>Program ends execution.</p>
2. validFile	<p>Preconditions: The file questions1.xml exists and has correctly formatted questions. It has 3 standard questions, 4 elementary questions, and 2 advanced questions.</p> <p>Start the MovieTrivia program. Select the file browser and browse to the file location of the questions1.xml file. Select</p>	<p>Window with file browser appears.</p> <p>Program GUI displays initial user window with options to add question, take quiz, or quit.</p> <p>Programs quits without error.</p>	<p>Window with file browser appears.</p> <p>Program GUI displays initial user window with options to add question, take quiz, or quit.</p> <p>Programs quits without error.</p>

	<p>questions1.xml file. Click Open. (check result)</p> <p>Press Quit.</p>		
3. invalidFile_misspelled	<p>Preconditions: The file questions2.xml exists and has a misspelled tag.</p> <p>Start the MovieTrivia program. Select the file browser and browse to the file location of the questions2.xml file. Select questions2.xml file. Click Open. (check result)</p> <p>Select Quit.</p>	<p>Error window: Invalid File</p> <p>Program ends execution.</p>	<p>Error window: Invalid File</p> <p>Program ends execution.</p>
4. invalidFile_missQuestionTag	<p>Preconditions: The file questions3.xml exists and has a missing Question tag on a Standard Question.</p> <p>Start the MovieTrivia program. Select the file browser and browse to the file location of the questions3.xml file. Select questions3.xml file. Click Open. (check result)</p> <p>Select Quit.</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>

<p>5. invalidFile_missingChoiceA</p>	<p>Preconditions: The file questions4.xml exists and has a missing ChoiceA tag on a Standard Question.</p> <p>Start the MovieTrivia program. Select the file browser and browse to the file location of the questions4.xml file. Select questions4.xml file. Click Open. (check result)</p> <p>Select Quit.</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>
<p>6. invalidFile_missingChoiceB</p>	<p>Preconditions: The file questions5.xml exists and has a missing ChoiceB tag on a Advanced Question.</p> <p>Start the MovieTrivia program. Select the file browser and browse to the file location of the questions5.xml file. Select questions5.xml file. Click Open. (check result)</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>

<p>7. invalidFile_missingChoiceC</p>	<p>Preconditions: The file questions6.xml exists and has a missing ChoiceC tag on a Standard Question.</p> <p>Start the MovieTrivia program. Select the file browser and browse to the file location of the questions6.xml file. Select questions6.xml file. Click Open. (check result)</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>
<p>8. invalidFile_missingChoiceD</p>	<p>Preconditions: The file questions7.xml exists and has a missing ChoiceD tag on a Standard Question.</p> <p>Start the MovieTrivia program. Select the file browser and browse to the file location of the questions7.xml file. Select questions7.xml file. Click Open. (check result)</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>

9. invalidFile_missingAnswer	<p>Preconditions: The file questions8.xml exists and has a missing Answer tag on a Standard Question.</p> <p>Start the MovieTrivia program. Select the file browser and browse to the file location of the questions8.xml file. Select questions8.xml file. Click Open. (check result)</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>
10. invalidFile_missingHint	<p>Preconditions: The file questions9.xml exists and has a missing Hint tag on an Elementary Question.</p> <p>Start the MovieTrivia program. Select the file browser and browse to the file location of the questions9.xml file. Select questions9.xml file. Click Open. (check result)</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>

11. invalidFile_missingComment	<p>Preconditions: The file questions10.xml exists and has a missing Hint tag on an Advanced Question.</p> <p>Start the MovieTrivia program. Select the file browser and browse to the file location of the questions10.xml file. Select questions10.xml file. Click Open. (check result)</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>
12. invalidAnswer_length	<p>Preconditions: The file questions11.xml exists and has an invalid answer length of greater than 1 character.</p> <p>Start the MovieTrivia program. Select the file browser and browse to the file location of the questions11.xml file. Select questions11.xml file. Click Open. (check result)</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>

13. invalidAnswer_character	<p>Preconditions: The file questions12.xml exists and has an invalid answer character T.</p> <p>Start the MovieTrivia program. Select the file browser and browse to the file location of the questions12.xml file. Select questions12.xml file. Click Open. (check result)</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>	<p>Error window: Invalid File: Question Exception</p> <p>Program ends execution.</p>
14. validFile_upperCase	<p>Preconditions: The file questions13.xml exists and is the same as question1.xml but all answers are uppercase.</p> <p>Start the MovieTrivia program. Select the file browser and browse to the file location of the questions13.xml file. Select questions13.xml file. Click Open. (check result)</p>	<p>Window with file browser appears.</p> <p>Program GUI displays initial user window with options to add question, take quiz, or quit.</p> <p>Programs quits without error.</p>	<p>Window with file browser appears.</p> <p>Program GUI displays initial user window with options to add question, take quiz, or quit.</p> <p>Programs quits without error.</p>

15. testStandardTransition - Advanced	Select Take Movie Quiz. (check result)	Displays first Standard Question.	Displays first Standard Question.
	Select Choice d. Press Submit Answer. (check result)	Message "Correct!" appears at bottom of window.	Message "Correct!" appears at bottom of window.
	Select Next Question. (check result)	Second Standard Question is displayed.	Second Standard Question is displayed.
	Select Choice c, press Submit Answer. (check result)	Message "Correct!" appears at bottom of window.	Message "Correct!" appears at bottom of window.
	Select Next Question (check result)	First Advanced Question is displayed.	First Advanced Question is displayed.
	Select Choice d, press Submit Answer. (check result)	Message "Correct! Great work!" appears at bottom of window.	Message "Correct! Great work!" appears at bottom of window.
	Select Next Question (check result)	Second Advanced Question is displayed.	Second Advanced Question is displayed.
	Select Choice c, press Submit Answer (check result)	Message "Correct! Good job!" appears at bottom of window.	Message "Correct! Good job!" appears at bottom of window.
	Select Next Question (check result)	Message window appears saying that you have answered 4 questions correctly out of 4 attempts	Message window appears saying that you have answered 4 questions correctly out of 4 attempts
	Click OK (check result)	Initial window in GUI is displayed.	Initial window in GUI is displayed.
	Select Quit	Programs quits without error.	Programs quits without error.

16. testStandardTransition - Elementary	Select Take Movie Quiz (check result)	Displays first Standard Question	Displays first Standard Question
	Select Choice a, press Submit Answer (check result)	Message "Incorrect!" appears at bottom of window.	Message "Incorrect!" appears at bottom of window.
	Select Next Question (check result)	First Elementary Question is displayed.	First Elementary Question is displayed.
	Select choice a, press Submit Answer (check result)	Message "Incorrect! Here is a hint. The correct answer is d." appears at bottom of window.	Message "Incorrect! Here is a hint. The correct answer is d." appears at bottom of window.
	Select Next Question (check result)	First Elementary Question is displayed.	First Elementary Question is displayed.
	Select Choice d, press Submit Answer (check result)	Message "Correct!" is displayed at the bottom of the window.	Message "Correct!" is displayed at the bottom of the window.
	Select Next Question (check result)		
	Select Choice a, press Submit Answer (check result)	The second Elementary Question is displayed.	The second Elementary Question is displayed.
	Press Next Question (check result)	Message "Incorrect! Here's a hint. The correct answer is c." is displayed at the bottom of the window.	Message "Incorrect! Here's a hint. The correct answer is c." is displayed at the bottom of the window.
	Select Choice a, press Submit Answer (check result)	The second Elementary Question is displayed.	The second Elementary Question is displayed.
	Select Next Question (check result)	Message "Incorrect!" is displayed at the bottom of the window.	Message "Incorrect!" is displayed at the bottom of the window.
	Select Choice a, press Submit Answer (check result)	The third Elementary	The third Elementary

	<p>Select Next Question (check result)</p> <p>Select Choice b, press Submit Answer (check result)</p> <p>Select Next Question (check result)</p> <p>Select Choice a, press Submit Answer. (check result)</p> <p>Select Next Question (check result)</p> <p>Press OK (check result)</p> <p>Select Quit (check result)</p>	<p>Question is displayed.</p> <p>Message "Correct!" is displayed at the bottom of the window.</p> <p>The fourth Elementary Question is displayed.</p> <p>Message "Correct!" is displayed.</p> <p>The second Standard Question is displayed.</p> <p>Message "Incorrect!" is displayed at the bottom of the window.</p> <p>Message window pops up and says that you answered 3 questions correctly out of 8 attempts.</p> <p>Initial window in GUI is displayed.</p> <p>Programs quits without error.</p>	<p>Question is displayed.</p> <p>Message "Correct!" is displayed at the bottom of the window.</p> <p>The fourth Elementary Question is displayed.</p> <p>Message "Correct!" is displayed.</p> <p>The second Standard Question is displayed.</p> <p>Message "Incorrect!" is displayed at the bottom of the window.</p> <p>Message window pops up and says that you answered 3 questions correctly out of 8 attempts.</p> <p>Initial window in GUI is displayed.</p> <p>Programs quits without error.</p>
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<p>17. testAddQuestion</p>	<p>Select Add Questions (check result)</p> <p>Select Take Movie Quiz (check result)</p> <p>Select the Elementary Question from the Question Type drop down menu. (check result).</p> <p>Enter "Test Elementary Question" in the Question field, "a" in Choice A, "b" in Choice B, "c" in Choice c, "d" in Choice d, and "The answer is a" in the Hint field. Select "A" from the Answer drop down menu. Select Add. (check result)</p> <p>Select Standard Question from the Question Type drop down menu. (check result)</p> <p>Enter "Test Standard Question" into the Question field, "a" into Choice a, "b" into Choice b, "c" into Choice c, "d" into Choice d, and select "A" from the Answer drop down menu. Select Add. (check result)</p>	<p>The add movie window is displayed, with drop down boxes for Question Type and Answer. Text entry boxes for the Question and choice fields.</p> <p>A text field appears for Hint at the bottom of the window.</p> <p>The text fields clear out.</p> <p>The Hint text field disappears.</p> <p>The text fields clear out.</p>	<p>The add movie window is displayed, with drop down boxes for Question Type and Answer. Text entry boxes for the Question and choice fields.</p> <p>A text field appears for Hint at the bottom of the window.</p> <p>The text fields clear out.</p> <p>The Hint text field disappears.</p> <p>The text fields clear out.</p>
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	<p>Select Advanced Question from the Question Type drop down menu.(check result)</p> <p>Enter “Test Advanced Question” into the Question field, “a” into Choice a, “b” into Choice b, “c” into Choice c, “d” into Choice d, “Good work!” into the Comment field, and choose “A” from the Answer drop down menu. Select Add. (check result)</p> <p>Select Done (check result)</p> <p>Select Take Movie Quiz (check result)</p> <p>Select Choice d, press Submit Answer (check result)</p> <p>Select Next Question (check result)</p> <p>Select Choice a, select Submit Answer (check result)</p> <p>Select Next Question (check result)</p> <p>Select Choice a, press Submit Answer (check result)</p>	<p>The Comment text field appears at the bottom of the window.</p> <p>The text fields clear out.</p> <p>The initial menu for the GUI appears.</p> <p>The first Standard Question is displayed.</p> <p>Message “Correct!” appears at the bottom of the window.</p> <p>The second Standard Question is displayed.</p> <p>“Incorrect” is displayed at the bottom of the window.</p> <p>the first Elementary Question is</p>	<p>The Comment text field appears at the bottom of the window.</p> <p>The text fields clear out.</p> <p>The initial menu for the GUI appears.</p> <p>The first Standard Question is displayed.</p> <p>Message “Correct!” appears at the bottom of the window.</p> <p>The second Standard Question is displayed.</p> <p>“Incorrect” is displayed at the bottom of the window.</p> <p>the first Elementary Question is</p>
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		displayed.	displayed.
	Select Next Question (check result)	Message "Incorrect! Here is a hint. The correct answer is d." is displayed.	Message "Incorrect! Here is a hint. The correct answer is d." is displayed.
	Select Choice a, press Submit Answer (check result)	The first Elementary Question is displayed.	The first Elementary Question is displayed.
	Select Next Question (check result)	Message "Incorrect!" is displayed at the bottom of the window	Message "Incorrect!" is displayed at the bottom of the window
	Select Choice a, press Submit Answer (check result)	The second Elementary Question is displayed.	The second Elementary Question is displayed.
	Select Next Question (check result)	Message "Incorrect! Here is a hint. The correct answer is c." is displayed.	Message "Incorrect! Here is a hint. The correct answer is c." is displayed.
	Select Choice a, press Submit Answer (check result)	The second Elementary Question is displayed.	The second Elementary Question is displayed.
	Select Next Question (check result)	Message "Incorrect!" is displayed at the bottom of the window	Message "Incorrect!" is displayed at the bottom of the window
	Select Choice b, press Submit Answer (check result)	The third Elementary Question is displayed.	The third Elementary Question is displayed.
	Select Next Question (check result)	Message "Incorrect! Here is a hint. The correct answer is a." is displayed.	Message "Incorrect! Here is a hint. The correct answer is a." is displayed.
	Select Choice b, press Submit Answer (check result)	The third Elementary Question is displayed.	The third Elementary Question is displayed.
	Select Next Question (check result)	Message "Incorrect!"	Message "Incorrect!"

	Select Choice b, press Submit Answer (check result)	is displayed at the bottom of the window	is displayed at the bottom of the window
	Select Next Question (check result)	The fourth Elementary Question is displayed.	The fourth Elementary Question is displayed.
	Select a, press Submit Answer (check result)	Message "Correct!" is displayed at the bottom of the window	Message "Correct!" is displayed at the bottom of the window
	Select Next Question (check result)	Test Elementary Question is displayed.	Test Elementary Question is displayed.
	Select Choice a, press Submit Answer (check result)	Message "Correct!" is displayed at the bottom of the window	Message "Correct!" is displayed at the bottom of the window
	Select Next Question (check result)	The third Standard Question is displayed.	The third Standard Question is displayed.
	Select Choice a, press Submit Answer (check result)	Message "Correct!" is displayed at the bottom of the window	Message "Correct!" is displayed at the bottom of the window
	Select Next Question (check result)	Test Standard Question is displayed.	Test Standard Question is displayed.
	Select Choice d, press Submit Answer (check result)	Message "Correct!" is displayed at the bottom of the window	Message "Correct!" is displayed at the bottom of the window
	Select Next Question (check result)	The first Advanced Question is displayed.	The first Advanced Question is displayed.
	Select Choice c, press Submit Answer (check result)	Message "Correct! Great work!" is displayed at the bottom of the window	Message "Correct! Great work!" is displayed at the bottom of the window
	Select Next Question (check result)	The second	The second

	<p>Submit Answer (check result)</p> <p>Select Next Question (check result)</p> <p>Select OK. Click Add Questions. Select Advanced Question from the Question Type drop down menu. Enter "Test Advanced Question 2" into the Question field, "a" into Choice A, "b" into Choice B, "c" into Choice C, "d" into Choice D, select "B" from the Answer drop down menu, and "Yay!" into the Comment field. Press Add (check result)</p> <p>Press Done. (check result)</p> <p>Select Take Movie Quiz (check result)</p> <p>Select b, press Submit Answer (check result)</p> <p>Select Next Question</p>	<p>Advanced Question is displayed.</p> <p>Message "Correct! Good job!" is displayed at the bottom of the window</p> <p>Test Advanced Question is displayed</p> <p>Message "Correct! Good work!" is displayed at the bottom of the window</p> <p>Window pops up saying you have answered 8 questions correctly out of 15 attempts</p> <p>Text fields clear out.</p> <p>Initial GUI window is displayed</p> <p>Test Advanced Question 2 is</p>	<p>Advanced Question is displayed.</p> <p>Message "Correct! Good job!" is displayed at the bottom of the window</p> <p>Test Advanced Question is displayed</p> <p>Message "Correct! Good work!" is displayed at the bottom of the window</p> <p>Window pops up saying you have answered 8 questions correctly out of 15 attempts</p> <p>Text fields clear out.</p> <p>Initial GUI window is displayed</p> <p>Test Advanced Question 2 is</p>
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	<p>Press OK (check result)</p> <p>Select Quit.</p>	<p>displayed.</p> <p>Message "Correct! Yay!" is displayed at the bottom of the window.</p> <p>Window pops up saying that you answered 9 questions correctly out of 16 attempts.</p> <p>Displays initial GUI window.</p> <p>Programs quits without error.</p>	<p>displayed.</p> <p>Message "Correct! Yay!" is displayed at the bottom of the window.</p> <p>Window pops up saying that you answered 9 questions correctly out of 16 attempts.</p> <p>Displays initial GUI window.</p> <p>Programs quits without error.</p>
18. writeToFile	<p>Select Add Questions</p> <p>Select Advanced Question from the Question Type drop down menu. Put "Test Advanced Question" into the Question Field, "a" in Choice A, "b" in Choice b, "c" in Choice C, "d" in Choice d, select "A" in the Answer drop down menu, and put "Yay!" into the Comment field. Select Add (check result)</p> <p>Select Standard Question from the Question Type drop down menu. Put "Test Standard Question" into the Question Field, "a" in Choice A, "b" in</p>	<p>Text fields clear out.</p>	

	<p>Choice b, "c" in Choice C, "d" in Choice d, and select "C" in the Answer drop down menu. Select Add (check result)</p> <p>Select Elementary Question from the Question Type drop down menu. Put "Test Elementary Question" into the Question Field, "a" in Choice A, "b" in Choice b, "c" in Choice C, "d" in Choice d, select "D" in the Answer drop down menu, and put "It's d" into the Hint field. Select Add (check result)</p> <p>Select Write All. Type "testWriteFile.xml" into the text field. Select Open.</p> <p>Check the save file location for the testWriteFile.xml.</p> <p>Select Quit.</p>	<p>Text fields clear out.</p> <p>Text fields clear out.</p> <p>File contains all the questions in questions1.xml, plus the questions that were added in this test under the correct question difficulty tags.</p> <p>Programs quits without error.</p>	
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19. doneOption	<p>Select Take Movie Quiz</p> <p>Select Choice a, press Submit Answer. (check result)</p> <p>Select Next Question (check result)</p> <p>Select Choice d, press Submit answer.</p> <p>Select Done</p> <p>Select Quit</p>	<p>First Standard Question is displayed.</p> <p>Message "Incorrect!" is displayed at bottom of window.</p> <p>First Elementary Question is displayed.</p> <p>Message "Correct!" is displayed at the bottom of the window.</p> <p>Window pops up saying you answered 1 questions correctly out of 2 attempts.</p> <p>Programs quits without error.</p>	
20. cancelTest	<p>Start MovieQuiz program.</p> <p>Select Cancel</p>	<p>File browser appears with option to enter filename or to cancel.</p> <p>Program quits without error.</p>	

Date	Author	Change Description
06/09/2016	Benjamin Zich	Wrote the fileInBrowser, fileInConsole, and fileDoesNotExist
06/26/2016	Benjamin Zich	Rewrote tests made on 06/09/2016 and created tests 1 -20