

Test Case Id: 0		Test Purpose: To add a new admin to the admin database.	
Environment: Command Line			
Preconditions: Logged in as Admin			
Test Case Steps:			
Step No	Procedure	Response	Pass/Fail
1	Select “3” in the admin menu	Prompts the admin to enter a valid admin ID	Pass
2	Enter “023456”	Alerts the admin that it is an invalid input due to incorrect format. (e.g. must not start with 0 and must have 5 digits). Admin is asked again to enter a valid admin ID	Fail
3	Enter “17301”	Prompts the admin to enter the password and states that password must be at least 6 characters.	Pass
4	Enter “testing”	Prompts the admin to enter the name of admin and states that it must not contain digits.	Pass
5	Enter “Janrey Mosuela”	Outputs “Successfully added Janrey Mosuela into the database.”. User returns the admin menu.	Pass
Comments:			
Related Tests:			
Author: Janrey Mosuela/Henry Escott		Checker: Janrey Mosuela	

Test Case Id: 1	Test Purpose: To add a brand new quiz to the system that can be played when a student takes a quiz. This quiz should be made of a question, or questions, that the user manually inputs, and the user should be able to edit		
Environment: Command Line			
Preconditions: Admin logged in			
Test Case Steps:			
Step No	Procedure	Response	Pass/Fail
1	Select 1 in the admin menu	Prints menu asking whether the user wishes to create a brand new	Pass

		quiz or whether they want to copy an existing quiz to edit.	
2	Select 1 in the given menu ("Create a brand new quiz")	Prompts user to enter a topic name for the quiz.	Pass
3	Enter "test" in the given menu.	Prints menu giving the user the choice between: Add new question, Delete a question by index, Edit a question by index, and Go back to dashboard.	Pass
4	Select 1 in the given menu ("Add a new question")	Prompts the user to enter the question.	Pass
5	Enter "What is the capital city of Great Britain?" in the given prompt.	Prompts user to enter the intended number of answers for this question.	Pass
6	Enter 3 in the given prompt.	Prompts the user to enter the first answer.	Pass
7	Enter "Cardiff" in the given prompt.	Prompts the user to decide (y/n) if this answer is the correct answer.	Pass
8	Enter "n" in the given prompt.	Prompts the user to enter the second answer.	Pass
9	Repeat steps 7 and 8 two more times (the y/n choice is only repeated if the correct answer hasn't been stated).	Outputs that the user has successfully added a question and displays the menu in step 3 response again.	Pass
10	Select 3 in given menu ("Edit question by index")	Prompts the user to input the index that they wish to edit.	
11	Enter 2 in given prompt.	System outputs that this is an invalid index and returns to prior menu.	Pass
12	Repeat step 10.	Allows user to pick the index to edit again.	Pass
13	Enter 1 in given prompt.	Prompts user to enter the question.	Pass
14	Repeat steps 5 through 9 with a different question and answers.	The previously inputted question is overwritten with the new question and answers inputted here. User is	Pass

		again displayed with the menu in step 3 response.	
15	Select 2 in given menu ("Delete question by index")	Prompts user to enter the question number they wish to delete.	Pass
16	Enter 1 in the given prompt.	System outputs that the question at the given index has been deleted and returns to the menu in the question 3 response.	Pass
17	Enter 4 in the given menu ("Exit to dashboard")	System displays the admin menu.	Pass
Comments:			
Related Tests: Create copy of existing quiz, Admin log in			
Author: David Sampson/Janrey Mosuela/Henry Escott		Checker: David Sampson	

Test Case Id: 3	Test Purpose: To add a new quiz to the system using an existing quiz as a template. The quiz should be a copy of an existing quiz (containing the same questions and their respective answers), which can then be amended as required.		
Environment: Command Line			
Preconditions: Admin logged in			
Test Case Steps:			
Step No	Procedure	Response	Pass/Fail
1	Enter 1 in the admin menu prompt (“Add a new quiz”)	Prints menu asking whether the user wishes to create a brand-new quiz or whether they want to copy an existing quiz to edit. Prompts user to select an option.	Pass
2	Enter 2 in the new quiz prompt (“Copy an existing quiz”)	Prints menu giving the user a list of available existing quizzes that can be copied. Prompts user to select an option.	Pass
3	Enter “test” in the prompt (invalid input)	The input is not valid, re-prints the list of available quizzes. Prompts the user to enter a valid option.	Pass

4	Enter "1" (valid input)	The input is valid, prompts user to enter a name for the new quiz.	Pass
5	Enter "New Quiz" in the given prompt	Creates a new quiz file titled "New Quiz" in the "quizzes" directory, containing the same questions and answers as the quiz selected to copy. Displays edit quiz menu.	Pass
6	Enter 3 in edit quiz menu prompt ("Edit a question by index")	Prints menu giving the user a list of available questions that can be edited. These are the same as the ones in the copied quiz. Prompts user to select an option or enter 0 to cancel.	Pass
7	Enter 1 in the given prompt.	Prompts user to enter the new question.	Pass
8	Enter "Does this question get updated?"	Prompts user to enter the number of answers they'd like to add for the new question.	Pass
9	Enter "2"	Prompts user to enter an answer for the new question.	Pass
10	Enter "First updated answer"	Prompts user to select whether the answer added if the correct answer to the new question.	Pass
11	Enter "n"	Prompts user to enter an answer for the new question.	Pass
12	Enter "Second updated answer"	Prompts user to select whether the answer added is the correct answer to the new question.	Pass
13	Enter "y"	System outputs that the question has been updated successfully. The question has been updated in the "New Quiz" file. Returns user to edit quiz menu.	Pass
14	Enter 2 in edit quiz menu prompt ("Delete question by index")	Prints menu giving the user a list of available questions that can be deleted. Prompts user to select an option or enter 0 to cancel.	Pass

15	Enter 0 in the given prompt.	No changes are made to the file. Returns user to the edit quiz menu.	Pass
16	Enter 2 in edit quiz menu prompt ("Delete question by index")	Prints menu giving the user a list of available questions that can be deleted. Prompts user to select an option or enter 0 to cancel.	Pass
17	Enter 1 in the given prompt.	System outputs that the question at the given index has been deleted and returns the user to the edit quiz menu. The question no longer appears in the "New Quiz" file.	Pass
18	Enter 1 in edit quiz menu prompt ("Add a new question")	Prompts user to enter the new question.	Pass
19	Enter "Does this question get added?"	Prompts user to enter the number of answers they'd like to add for the new question.	Pass
20	Enter "2"	Prompts user to enter an answer for the new question.	Pass
21	Enter "First answer"	Prompts user to select whether the answer added if the correct answer to the new question.	Pass
22	Enter "n"	Prompts user to enter an answer for the new question.	Pass
23	Enter "Second answer"	Prompts user to select whether the answer added is the correct answer to the new question.	Pass
24	Enter "y"	System outputs that the question has been added successfully. The question has been added to the "New Quiz" file. Returns user to edit quiz menu.	Pass
25	Enter 6 in the edit quiz menu. ("Exit to dashboard")	System displays the main admin menu.	Pass
Comments:			
Related Tests: Create brand new quiz, Admin log in			

Author: David Sampson/Henry Escott	Checker: Henry Escott
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Test Case Id: 4		Test Purpose: To test the calculations and outputs of statistics for a completed quiz.	
Environment: Command Line			
Preconditions: A student must have both selected and completed a quiz from the given list.			
Test Case Steps:			
Step No	Procedure	Response	Pass/Fail
1	Display the number of questions the student answered correctly.	The program displays the number of questions the student answered correctly.	Pass
2	Display the time it took for the student to complete the quiz.	The program displays the time it took for the student to complete the quiz.	Pass
3	Display the time it took for the student to answer each question.	The program lists the time that it took for the student to answer each question, with a 0.5 second wait between each.	Pass
4	Display the average time it took for the student to answer a question.	The program correctly calculates and displays the average time it took for the student to answer a question.	Pass
Comments:			
Related Tests: Take Quiz			
Author: Jacob Winkworth		Checker: Jacob Winkworth	

Test Case Id: 5	Test Purpose: To test whether the quiz runs correctly, displays the questions and their relevant answers. Also, to test whether the correct output is displayed depending on whether an answer is correct or not and whether feedback is provided at the end of the quiz. It must also test whether the code restarts properly.
Environment: Command Line	

Preconditions: School/Year Group set up in admin.

Test Case Steps:

Step No	Procedure	Response	Pass/Fail
1	Run code and enter 1 to take a quiz.	Prints the menu to choose between quizzes.	Pass
2	Enter 3 to select quiz.	Prints the first question and multiple-choice answers.	Pass
3	Enter 1.	Prints correct and then prints the second question and its multiple-choice answers.	Pass
4	Enter 2	Prints incorrect, prints the correct answer and then prints the third question and its multiple-choice answers.	Pass
5	Enter 0.	Restarts the quiz and print the first question and its multiple-choice answers.	Pass
6	Repeat steps 3&4	Proceeds to question 3.	Pass
7	Enter 2, Enter 3.	Prints correct, then question 4 and its answers. Prints incorrect, the correct answer, then question 5 and its answers.	Pass
8	Enter 4.	Prints incorrect, then the correct answer. It then prints "Quiz Finished" and the players score, out of the total number of questions. (In this case it is 3/5) It then returns to the main menu and you can take the quiz again.	Pass
9	Enter 1.	Relaunches the quiz menu, allowing you to select the same/another quiz.	Pass
10	Enter 2.	Launches another quiz, printing question 1 of that quiz and its multiple-choice answers.	Pass

Comments:	
Related Tests: Enter School and Year Information, View Statistics	
Author: Caitlin Burns/David Sampson	Checker: Caitlin Burns

Test Case Id: 6	Test Purpose: The purpose of this test is to check whether the add school and display school methods work when being referenced from the admin menu in the main part of the quiz.		
Environment: Command Line			
Preconditions: The admin menu has been set up			
Test Case Steps:			
Step No	Procedure	Response	Pass/Fail
1	Run program and enter admin menu (see admin Test Case)	It asks for username and password upon entering correct information shows another menu full of choices	Pass
2	Once entering menu press 4 to create a new entry	Upon entering the number 4 brings up a command to add new school	Pass
3	While in the add new school function test for invalid inputs to check whether the regex works as the regex is supposed to work only for uppercase letters, lowercase letters, and spaces. Enter "123!@#abc". A valid entry could be "Cardiff University"	The response was a success after entering several responses including numerical and punctuational characters and they did not work	Pass
4	After entering a correct entry for adding a school name a new menu will prompt you to enter what year the students are this also has regex which should only accept numerical numbers. Enter "Year: Eleven". A valid entry	The response was a success after entering several answers of an alphabetical nature they came back incorrect after entering	Pass
5	After successfully adding a school it will bring you back to the main admin menu to check whether the school has been added, we will display the document where its stored-on screen. Enter 5 to display school.	The response was a success as it display the schools added to the list line by line, it has been read from the text file.	Pass

Comments:	
Related Tests:	
Author: Bryce Johns	Checker: Bryce Johns