

TEST CASES DOCUMENTATION

Date: Date the test was documented

Document Tested: .java file tested

Action: The input of the password

Expected Results: The score of the password – invalid or valid password

Actual Results: The actual resulting score or if the password is invalid or valid

Pass / Fail: Determines if the test passes or fails

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Password Score: 0 – 5

Score 5 Requirements: Contain at least 9 characters with lowercase and uppercase character(s), number(s), and special character(s)

Score 4: Missing at least one requirement from Score 5 Requirements

Score 3: Missing at least two requirements from Score 4

Score 2: Missing at least three requirements from Score 3

Score 1: Only meets one requirement from Score 5

Score 0: Input is empty

TEST CASE 1: PASSWORD.JAVA

Date	Document Tested	Action	Expected Results	Actual Results	Pass / Fail
4/1	Password.java	<i>null</i>	0	0	Pass
		"a"	1	1	Pass
		"aA"	2	2	Pass
		"aA1"	3	3	Pass
		"aA1!"	4	4	Pass
		"aA1!a"	4	4	Pass
		"aA1!atEstt"	5	5	Pass
		"a "	?	1	?
		"aA1!atE "	?	5	?

Note: Would an empty string result in a failed strength check or would an empty string be accepted?

When inputting a few white spaces, we still get a score of 5.

Valid Password Requirements: Contain at least 12 characters with lowercase and uppercase character(s), number(s), and special character(s)

Password Invalid: If the password does not meet all the requirements listed above

If invalid, the user will get error messages depending on missing requirements:

1. less than 12 characters
2. no special character(s)
3. no upper-case character(s)
4. no number(s)

TEST CASE 2: TESTERCHECKPASSWORD.JAVA

Date	Document Tested	Action	Expected Results	Actual Results	Pass / Fail
4/6	TesterCheckPassword.java	<i>null</i>	Invalid Error messages: 1, 2, 3, and 4	Invalid Error messages: 1, 2, 3, and 4	Pass
		"a"	Invalid Error messages: 1, 2, 3, and 4	Invalid Error messages: 1, 2, 3, and 4	Pass
		"aB"	Invalid Error messages: 1, 2, and 4	Invalid Error messages: 1, 2, and 4	Pass
		"aB1"	Invalid Error messages: 1 and 2	Invalid Error messages: 1 and 2	Pass
		"aB1!"	Invalid Error messages: 1	Invalid Error messages: 1	Pass
		"aB1!123Ab@123"	Valid	Valid	Pass
		"aB1!123Ab "	?	Valid	?

TEST CASE 3

Password Valid Requirements: Contain at least 12 characters with lowercase and uppercase character(s), number(s), special character(s), and whitespaces subtracts password score

Password Validation Output to User: If the password does not meet all the requirements listed above

The user will get error messages depending on missing requirements:

1. less than 12 characters
2. no special character(s)
3. no upper-case character(s)
4. no number(s)
5. the password has empty spaces or is empty
 - a point will be subtracted per whitespace entered
6. Congrats! Your password is valid!

Password Strength Category:

poor: password score is less than 15

fair: password score is exactly 15

good: password score is over 15 but less than 17

very good: password score is 17 or more

TEST CASE 3: TESTERCHECKPASSWORD.JAVA

Date	Action	Expected Results	Actual Results	Pass / Fail	Notes
4/10	<i>null</i>	Strength: poor Output messages: 1, 2, 3, 4	Strength: poor Output messages: 1, 2, 3, 4	Pass	Score: 3, should be 0
	"a"	Strength: poor Output messages: 1, 2, 3, 4	Strength: poor Output messages: 1, 2, 3, 4	Pass	Score: 3, should be 1
	"aB"	Strength: poor Output messages: 1, 2, 4	Strength: poor Output messages: 1, 2, 4	Pass	Score: 3, should be 2
	"aB1"	Strength: poor Output messages: 1 and 2	Strength: poor Output messages: 1 and 2	Pass	
	"aB1!"	Strength: poor Output messages: 1	Strength: poor Output messages: 1	Pass	
	"a "	Strength: poor Output messages: 1, 2, 3, 4, and 5	Strength: poor Output messages: 1, 2, 3, 4, and 5	Pass	
	"aaaaaaaaaaaa"	Strength: fair Output messages: 2, 3, 4	Strength: fair Output messages: 2, 3, 4	Pass	Password length: 12 Score: 15 with a strength of fair but only passed 1 requirement
	"aaaaaaaaaaaaa"	Strength: ? Output messages: 1, 2, 3, 4	Strength: very good Output messages: 1, 2, 3, 4	Pass	Password length: 15 Score: 18 with a strength of very good but passed only 1 requirement
	"abcDEf3!@aaa "	Strength: very good Output messages: 6	Strength: fair Output messages: 6	Pass	Password length: 12 Score: 15 Passed validation but strength validation is only fair – See row above for comparison