Validation Tests for PassGen Master

Password Length:

Test with the minimum allowed password length. -Tested down to 1 character length, program works as expected.

Test with the maximum allowed password length. -Tested up to 100 character length, program works as expected.

Test with a custom password length (e.g., 8 characters).-Tested several numbers from 1-100, all were working as expected.

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Character Sets:

Test with only lowercase letters. -Tested by deselecting all other checkboxes. Program functions normally.

Test with only uppercase letters .-Tested by only selecting the uppercase checkbox. Works as expected.

Test with only digits. -Tested by only selecting the digits checkbox. Working as expected.

Test with only special characters. -Tested by only selecting the special characters checkbox. The program works as expected.

Test with a combination of different character sets. -Tested varying combinations of character length mixed with different checkboxes selected – The program is working as expected.

See screenshots below!

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Password Strength:

Test the password strength meter with weak passwords. -Tested by using a low character count of 10 or under. Works as expected.

Test the password strength meter with strong passwords. -Tested by using a high character count of 10 or more. Works as expected.

Ensure the password strength meter does not exceed 100%. -Tested by using character counts from 10-100, the meter never exceeds 100%.

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Password History:

Verify that passwords are added to the history when generated. -Tested, working as expected.

Check if the history displays the timestamp correctly. -Tested, working as expected.

Ensure the history is updated in real-time. -Tested, working as expected.

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Clipboard Functionality:

Test copying a generated password to the clipboard. -Tested, clipboard works as expected in both windows.

Verify that the copied password can be pasted correctly. -Tested pasting into a wordpad, works as expected.

Error Handling:

Test with invalid inputs for password length (non-numeric values, negative values, etc.). Tested- using any other values than numbers results in no password generation, as expected.

Verify that appropriate error messages are displayed for invalid inputs. -Tested, the script provides appropriate error messages in the background.

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