password-strength-checker

August 14, 2023

[2]:
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import string    #To get the string module properties
import getpass   #provides a secure way to handle the password prompts


def check_password_strength():
    password = getpass.getpass('Enter the password: ')    #To read security␣
 ↪question
    strength = 0
    remarks = ''
    lower_count = upper_count = num_count = wspace_count = special_count = 0
    for char in list(password):                #for i in list(x)
        if char in string.ascii_lowercase:     #abcd....xyz
            lower_count += 1
        elif char in string.ascii_uppercase:   #ABCD...XYZ
            upper_count += 1
        elif char in string.digits:            #0123...89
            num_count += 1
        elif char == ' ':                      #whitespace
            wspace_count += 1
        else:                                  #special characters
            special_count += 1

    if lower_count >= 1:
        strength += 1
    if upper_count >= 1:
        strength += 1
    if num_count >= 1:
        strength += 1
    if wspace_count >= 1:
        strength += 1
    if special_count >= 1:
        strength += 1

    if strength == 1:
        remarks = ("That's a very bad password."
           " Change it as soon as possible.")
    elif strength == 2:
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        remarks = ("That's a weak password."
           " You should consider using a tougher password.")
    elif strength == 3:
        remarks = ("Your password is okay, but it can be improved.")
    elif strength == 4:
        remarks = ("Your password is hard to guess."
           " But you could make it even more secure.")
    elif strength == 5:
        remarks = ("Now that's one hell of a strong password!!!"
           " Hackers don't have a chance guessing that password!")

    print('Your password has:-')
    print("lowercase letters : ",lower_count)
    print("uppercase letters : ",upper_count)
    print("digits : ",num_count)
    print("whitespaces : ",wspace_count)
    print("special characters : ",special_count)
    print("Password Score : ",strength )
    print("Remarks : ",remarks)


print('===== Welcome to Create an Account =====')
name= input("USERNAME : ")
contact_number = int(input("Enter your mobile number : "))


while True:
    choice = input("Do you want to check your password's strength (y/n) : ")
    if choice =='y':
        check_password_strength()
    elif  choice=='n':
        print("------- Exiting -------")
        break
    else:
        print('Invalid input...please try again.')
```

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===== Welcome to Create an Account =====
USERNAME : Jothi
Enter your mobile number : 225646
Enter the password: ·····
Do you want to check your password's strength (y/n) : y
Your password has:-
lowercase letters :  6
uppercase letters :  1
digits :  2
whitespaces :  0
special characters :  1
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Password Score :  4
Remarks :  Your password is hard to guess. But you could make it even more
secure.
Do you want to check your password's strength (y/n) : n
------- Exiting -------
```

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