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1 from tkinter import Tk, Label, Entry, Button, messagebox, LabelFrame
2
3 # Password criteria definition
4 min_length = 10
5 requires_uppercase = True
6 requires_lowercase = True
7 requires_numbers = True
8 requires_special_characters = ['!', '@', '#', '%', '&', '*']
9 def check_password_strength(password):
10     if len(password) < min_length:
11         return "Password is too short, please match the requirements"
12     if requires_uppercase and not any(c.isupper() for c in password):
13         return "Password requires uppercase letters, please include uppercase letters"
14     if requires_lowercase and not any(c.islower() for c in password):
15         return "Password requires lowercase letters, please include lowercase letters"
16     if not any(c in requires_special_characters for c in password):
17         return "Password requires a special character, please include a special character"
18     return "Strong password"
19 def check_password_strength_tkinter():
20     user_password = password_entry.get()
21     result = check_password_strength(user_password)
22     messagebox.showinfo("Password Strength", result)
23
24 # Create the main window
25 root = Tk()
26 root.title("Password Strength Checker")
27
28 # LabelFrame for better organization
29 frame = LabelFrame(root, text="Password Strength Checker", padx=10, pady=10)
30 frame.pack(padx=20, pady=20)
31
32 # Label for password entry
33 password_label = Label(frame, text="Enter Password:")
34 password_label.grid(row=0, column=0, pady=10)
35
36 # Entry widget for password input
37 password_entry = Entry(frame, show="*")
38 password_entry.grid(row=0, column=1, pady=10)
39
40 # Button to check password strength
41 check_button = Button(frame, text="Check Strength", command=check_password_strength_tkinter)
42 check_button.grid(row=1, column=0, columnspan=2, pady=20)
43

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