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1 from tkinter import *
2 from tkinter import messagebox
3 from random import choice, randint, shuffle
4 import pyperclip
5
6 # ----- PASSWORD GENERATOR
  ----- #
7
8 #Password Generator Project
9 def generate_password():
10     letters = ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h',
11               'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p', 'q', 'r', 's',
12               't', 'u', 'v', 'w', 'x', 'y', 'z', 'A', 'B', 'C',
13               'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N',
14               'O', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X',
15               'Y', 'Z']
16     numbers = ['0', '1', '2', '3', '4', '5', '6', '7',
17               '8', '9']
18     symbols = ['!', '#', '$', '%', '&', '(', ')', '*',
19               '+']
20
21     password_letters = [choice(letters) for _ in
22                         range(randint(8, 10))]
23     password_symbols = [choice(symbols) for _ in
24                         range(randint(2, 4))]
25     password_numbers = [choice(numbers) for _ in
26                         range(randint(2, 4))]
27
28     password_list = password_letters +
29     password_symbols + password_numbers
30     shuffle(password_list)
31
32     password = "".join(password_list)
33     password_entry.insert(0, password)
34     pyperclip.copy(password)
35
36 # ----- SAVE PASSWORD
  ----- #
37
38 def save():
39
40     website = website_entry.get()

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29     email = email_entry.get()
30     password = password_entry.get()
31
32     if len(website) == 0 or len(password) == 0:
33         messagebox.showinfo(title="Oops", message="
Please make sure you haven't left any fields empty.")
34     else:
35         is_ok = messagebox.askokcancel(title=website
, message=f"These are the details entered: \nEmail: {
email} "
36
f"\nPassword: {password} \nIs it ok to save?")
37         if is_ok:
38             with open("data.txt", "a") as data_file:
39                 data_file.write(f"{website} | {email}
| {password}\n")
40                 website_entry.delete(0, END)
41                 password_entry.delete(0, END)
42
43
44 # ----- UI SETUP
----- #
45
46 window = Tk()
47 window.title("Password Manager")
48 window.config(padx=50, pady=50)
49
50 canvas = Canvas(height=200, width=200)
51 logo_img = PhotoImage(file="logo.png")
52 canvas.create_image(100, 100, image=logo_img)
53 canvas.grid(row=0, column=1)
54
55 #Labels
56 website_label = Label(text="Website:")
57 website_label.grid(row=1, column=0)
58 email_label = Label(text="Email/Username:")
59 email_label.grid(row=2, column=0)
60 password_label = Label(text="Password:")
61 password_label.grid(row=3, column=0)
62
63 #Entries

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64 website_entry = Entry(width=35)
65 website_entry.grid(row=1, column=1, columnspan=2)
66 website_entry.focus()
67 email_entry = Entry(width=35)
68 email_entry.grid(row=2, column=1, columnspan=2)
69 email_entry.insert(0, "lenargasimov@gmail.com")
70 password_entry = Entry(width=21)
71 password_entry.grid(row=3, column=1)
72
73 # Buttons
74 generate_password_button = Button(text="Generate
    Password", command=generate_password)
75 generate_password_button.grid(row=3, column=2)
76 add_button = Button(text="Add", width=36, command=
    save)
77 add_button.grid(row=4, column=1, columnspan=2)
78
79 window.mainloop()
```