

## Login.py

```
1 import tkinter as tk
2 from tkinter import messagebox
3 from PIL import Image, ImageTk, ImageDraw
4 import sqlite3 # Import SQLite library
5 import subprocess # Use subprocess to run another Python script
6
7 def add_placeholder(entry, placeholder_text, color):
8     entry.insert(0, placeholder_text)
9     entry['fg'] = color
10
11     def on_focus_in(event):
12         if entry.get() == placeholder_text:
13             entry.delete(0, 'end')
14             entry['fg'] = 'black'
15
16     def on_focus_out(event):
17         if not entry.get():
18             entry.insert(0, placeholder_text)
19             entry['fg'] = color
20
21     entry.bind("<FocusIn>", on_focus_in)
22     entry.bind("<FocusOut>", on_focus_out)
23
24 def make_circle_image(image_path, size):
25     image = Image.open(image_path).resize((size, size), Image.LANCZOS)
26     mask = Image.new("L", (size, size), 0)
27     draw = ImageDraw.Draw(mask)
28     draw.ellipse((0, 0, size, size), fill=255)
29     circular_image = Image.new("RGBA", (size, size))
30     circular_image.paste(image, (0, 0), mask=mask)
31     return ImageTk.PhotoImage(circular_image)
32
33
34 def login_user():
35     email = email_entry.get()
36     password = password_entry.get()
37
38     if email == "" or email == "Email":
39         messagebox.showerror("Error", "Please enter your email.")
40         return
41     if password == "" or password == "Password":
42         messagebox.showerror("Error", "Please enter your password.")
43         return
44
45     # Connect to the SQLite database
46     conn = sqlite3.connect('pursepal.db')
47     cursor = conn.cursor()
48
49     # Query to retrieve the user data
50     cursor.execute("SELECT * FROM users WHERE email=? AND password=?", (email, password))
51     result = cursor.fetchone()
52
53     if result:
54         messagebox.showinfo("Success", "Login successful!")
55         root.destroy() # Close the current login window
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56         subprocess.Popen(["python3", "Dashboard"]) # Launch the Dashboard script
57     else:
58         messagebox.showerror("Error", "Invalid email or password.")
59
60     # Close the database connection
61     conn.close()
62
63 def create_form_entry_with_icon(placeholder_text, icon_photo):
64     entry_frame = tk.Frame(form_frame, bg='#f4f3f1')
65     entry_frame.pack(fill='x', pady=10)
66
67     icon_label = tk.Label(entry_frame, image=icon_photo, bg='#f4f3f1')
68     icon_label.pack(side='left', padx=(0, 10))
69
70     entry = tk.Entry(entry_frame, font=('Jacques Francois', 14), fg='#4b2e2a', bg='#f4f3f1',
71 highlightthickness=0, relief='flat', bd=0)
72     entry.pack(side='left', fill='x', expand=True)
73
74     add_placeholder(entry, placeholder_text, 'grey')
75
76     line = tk.Frame(form_frame, height=2, bg='#4b2e2a')
77     line.pack(fill='x', pady=(0, 10))
78
79     return entry
80
81 def go_to_register(event=None):
82     root.destroy() # Close the current login window
83     subprocess.Popen(["python3", "Register"]) # Launch the registration page script
84
85 def on_closing():
86     root.destroy()
87
88 # Main application window
89 root = tk.Tk()
90 root.title("Purse Pal Login")
91 root.geometry("{0}x{1}+0+0".format(root.winfo_screenwidth(), root.winfo_screenheight()))
92 root.attributes('-fullscreen', True)
93
94 left_frame = tk.Frame(root, bg='#4b2e2a')
95 left_frame.pack(side='left', fill='both', expand=True)
96
97 image_path = "/Users/nirajbam/Desktop/pursepal/New Python/pic2.0.png"
98 photo = make_circle_image(image_path, 500)
99
100 image_label = tk.Label(left_frame, image=photo, bg='#4b2e2a')
101 image_label.image = photo
102 image_label.pack(pady=20)
103
104 text_label = tk.Label(left_frame, text="Welcome Back!\nReady to Log In?", fg='white',
105 bg='#4b2e2a', font=('Jacques Francois', 16))
106 text_label.pack(pady=20)
107
108 right_frame = tk.Frame(root, bg='#f4f3f1')
109 right_frame.pack(side='right', fill='both', expand=True)
110
111 logo_path = "/Users/nirajbam/Desktop/pursepal/New Python/pictures/1.jpg"
112 logo_image = Image.open(logo_path).resize((100, 100), Image.LANCZOS)
113 logo_photo = ImageTk.PhotoImage(logo_image)

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112 logo_label = tk.Label(right_frame, image=logo_photo, bg='#f4f3f1')
113 logo_label.image = logo_photo
114 logo_label.place(x=20, y=20)
115
116
117 login_label = tk.Label(right_frame, text="Login", font=('Jacques Francois', 24),
118 fg='#4b2e2a', bg='#f4f3f1')
119 login_label.pack(anchor='n', pady=(80, 10))
120
121 register_link = tk.Label(right_frame, text="Go to Register ►", font=('Jacques Francois', 12),
122 fg='#4b2e2a', bg='#f4f3f1', cursor="hand2")
123 register_link.pack(anchor='ne', padx=20, pady=20)
124 register_link.bind("<Button-1>", go_to_register) # Bind the click event to go to the
125 registration page
126
127 form_frame = tk.Frame(right_frame, bg='#f4f3f1')
128 form_frame.pack(pady=20, padx=50, anchor='n')
129
130 # Load the icons
131 person_icon_path = "/Users/nirajbam/Desktop/pursepal/New Python/pictures/email.jpg"
132 person_icon = Image.open(person_icon_path).resize((20, 20), Image.LANCZOS)
133 person_icon_photo = ImageTk.PhotoImage(person_icon)
134
135 password_icon_path = "/Users/nirajbam/Desktop/pursepal/New Python/pictures/password.png"
136 password_icon = Image.open(password_icon_path).resize((20, 20), Image.LANCZOS)
137 password_icon_photo = ImageTk.PhotoImage(password_icon)
138
139 # Create entry fields with icons
140 email_entry = create_form_entry_with_icon("Email", person_icon_photo)
141 password_entry = create_form_entry_with_icon("Password", password_icon_photo)
142
143 login_button = tk.Button(form_frame, text="Login", font=('Jacques Francois', 14),
144 fg='#4b2e2a', bg='#f4f3f1', borderwidth=1, relief='solid', command=login_user)
145 login_button.pack(pady=20)
146
147 root.protocol("WM_DELETE_WINDOW", on_closing)
148 root.mainloop()
```