

Lets create a wifi grabber for windows

Class WifiPasswordExtractor:

↳ defines the class for encapsulation

def __init__(self, master):

↳ ~~dunder~~ method init to make a constructor

↳ ~~it~~ takes root window as parameter

↳ ~~it~~ window property

self.master = master

self.master.geometry("500x700")

self.master.title("Wifi Password Extractor")

self.master.resizable(False, False)

↳ not resizable

self.create_widgets()

↳ will be the contents of the UI

self.main_frame = TkFrame(self.master)

↳ By the reference of master → root window a frame is created like a container widget (like a box) to hold other widgets!

self.main_frame.pack(padx=20, pady=20, fill="both", expand=True)

place the frame in the window with padding (padx, pady) fill by both side and expandable by window size if resizable would be true

Step 1

Initialize the main frame

helps in further root functionality

Step 2



```
Self.Scroll_frame = CTkScrollableFrame (Self.main_frame,  
width=600, height=350)
```

↳ Scrollable frame under master (changing main frame under main frame so main frame becomes master for the scroll frame + It's Scrollable)

```
Self.Scroll_frame.pack (pady=20, padx=20, fill="both",  
expand=True)
```

↳ placing scrollable plain on the main frame to be visible with padding + height width adjustment

```
CTkButton (
```

↳ When to place

```
Self.main_frame,
```

```
text = "Show password with AP"
```

↳ what should be written

```
Command = Self.Show_passwords
```

```
).pack (pady=5)
```

↳ what to do on button click



on the gap of 5px up and down

```
CTkButton (
```

```
Self.main_frame,
```

```
text = "Clear Result",
```

```
Command = Self.clear_result,
```

```
).pack (pady=5)
```

```
CTkButton (
```

```
Self.main_frame,
```

```
text = "Exit app", Command = Self.exit_app
```

```
).pack (pady=5)
```

Same



def show_profiles

try: # Exception handling

self.clear_results() # clear previous data

profile_data = Sb.check_output("netsh wlan show profiles", Shell=True).decode()

Sb.check_output will store the output to a variable, output to what? to wifi command netsh wlan show profiles that it to be then decoded to human readable format.

profiles = re.findall(r"All user's profile\s*:\s*(.*)", profile_data)

apply regex operation on available string stored in profile_data and return a list of it

If not profiles:

CTKLabel()

self.scroll_frame,
text = "No wifi profiles found",
font = ("Arial", 14)

) . pack (anchor = "w", padx = 10, pady = 25)

return

will get out of the program

If no profile found then label will be created

for profiles in profiles:

Will Extract the password and will save the result 1 By 1 in details where further detailed program will be executed

try: → Exception Handling

details = Sb.check_output(

f'netsh wlan show profile name={
profile} "Key=clear", Shell=True).decode()

password match = re.search(r'"key content" {5} : {5} (.*)"', details)

→ regex usage to extract key content

password = password_match.group(1) if password_match else "No password (Open Network)"

→ grouping of each password, displayed below

CTkLabel (

Self.ScrollFrame, → where to add label

text = f"Wifi Name: {profile} \n Password:

~~except~~ (Key Content): {password} \n \n",

font = ("Arial", 15),

justify = "left",

anchor = "w",

wraplength = 600

).pack(anchor = "w", padx = 10, pady = 5)

For password and A.P display

Text display formatting



except Exception as e:

→ Show general error if password extraction fails

CTkLabel()

where to
show,
how the
text formatting

self.scroll_frame,
text = f"Error for {profile} for retrieving password",
font = ("Arial", 13),
justify = "left",
anchor = "W",

wrap
text after 600
pixels!

wraplength = 600

).pack(anchor="W", padx=10, pady=5)

position of label!

except Exception as e:

Show exception if profile retrieval fails

CTkLabel()

where to
put the
Warning
and about text
formatting

self.scroll_frame

text = f"X Failed to retrieve profiles. \n {e}"

font = ("Arial", 13)

).pack(anchor="W", padx=10, pady=5)

→ display on the window (master)

def clear_result(self):

clear all displayed results from the
Scrollable frame

for widget in self.scroll_frame.winfo-
children():

widget.destroy()



- widget is each GUI element inside the frame
- in self.scroll_frame • wininfo - children() method that returns a list of all child widgets inside a container (like scroll_frame)
- .destroy() will remove/delete the widget

```
def exit_app(self):
```

```
    self.master.destroy()
```

↳ destroy function again to remove or delete the widget application

```
if __name__ == "__main__":
```

driver method for initializing the project

```
root = Tk() → Creating the main window
```

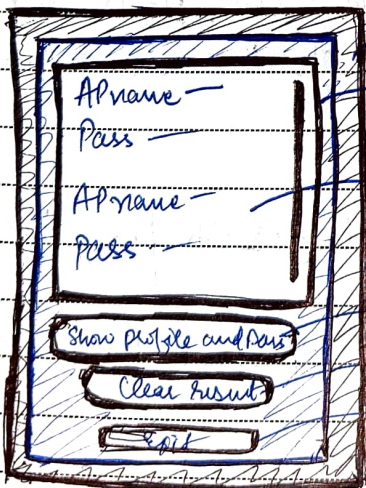
```
App = WiFiPasswordExtractor(root)
```

making object for class, passing root as parameter as master

```
root.mainloop()
```

↳ last line for the finishing of the task

So, the interface looks like



→ master main (root)

→ main frame (root → main) → another frame

→ Scroll frame & manip frame → Scroll frame → another frame

→ Button (Show_profile())

→ Button (Clear_result())

→ Button (Exit_app())