

this is the function linked to the button and is the one that formats the data and pass it to the function that writes it to the file

```
def save_data():

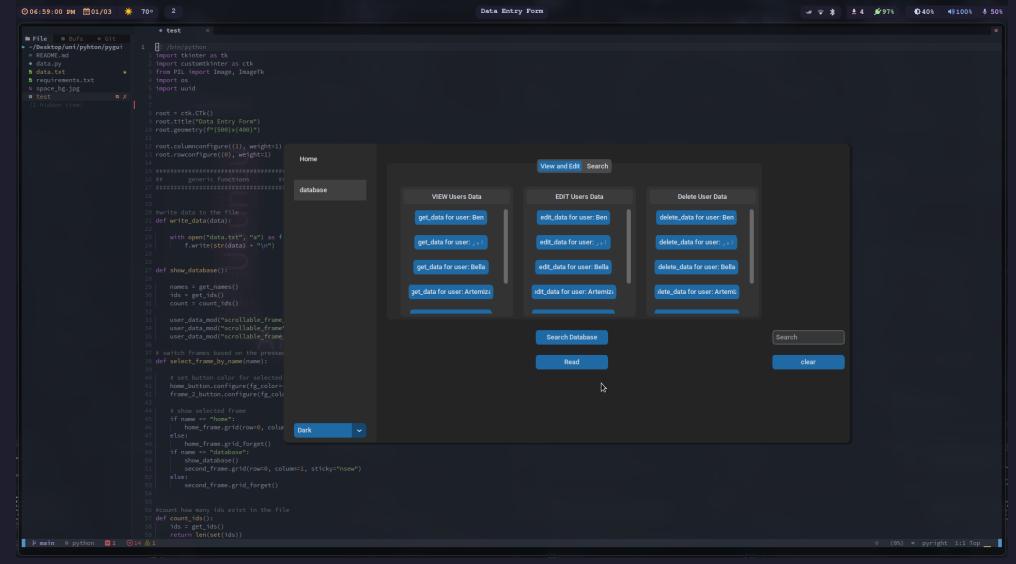
# format the data and append it to the file
    data = {
    "ID": str(uuid.uuid1()),
    "Name": name_entry.get(),
    "Age": age_entry.get(),
    "Gender": gender_entry.get(),
    "Email": email_entry.get(),
    "Address": address_entry.get()
}

write_data(data)
# deletes the data from the entries
    name_entry.delete(0, tk.END)
    age_entry.delete(0, tk.END)
    gender_entry.delete(0, tk.END)
    email_entry.delete(0, tk.END)
    address_entry.delete(0, tk.END)
```

this function opens the file in append mode so it doesnt delete the other records

```
def write_data(data):
    with open("data.txt", "a") as f:
        f.write(str(data) + "\n")
```

## database it self



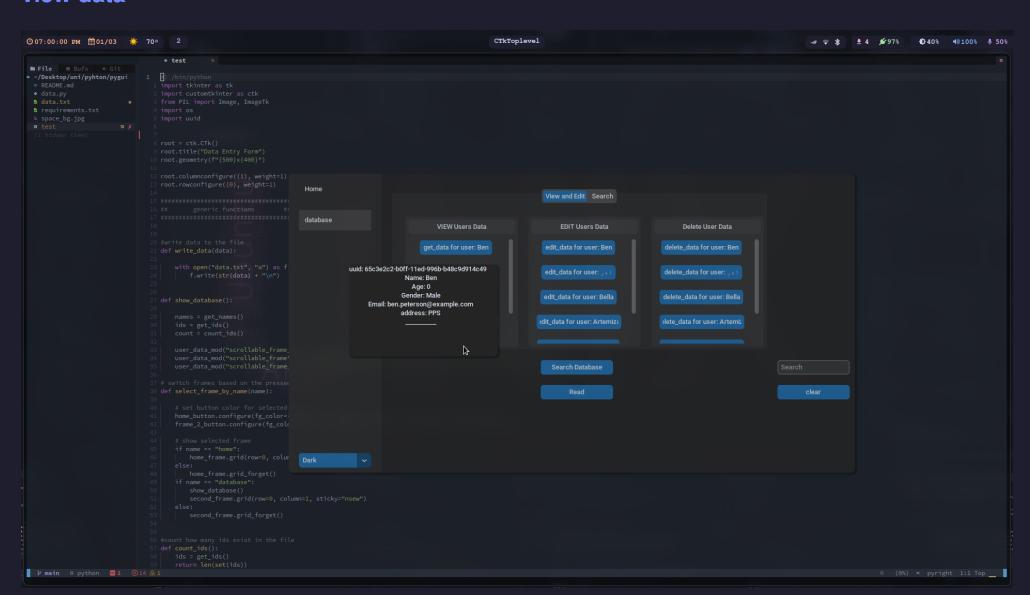
this is the function used to generate the buttons on all the database taken

```
def user_data_mod(master,list, names,ids,count, call_type, switch):
    for i in range(count):
        name = names[i]
        id = ids[i]

        switch = ctk.CTkButton(master=eval(master), text=f"{call_type} for user: {name}")
        switch.grid(row=i, column=0, padx=10, pady=(0, 20))
        switch.configure(command=lambda id=id ,call_type=call_type : button_make(id,call_type))
        print(f"dynamic {id}")
        eval(list).append(switch)

return list
```

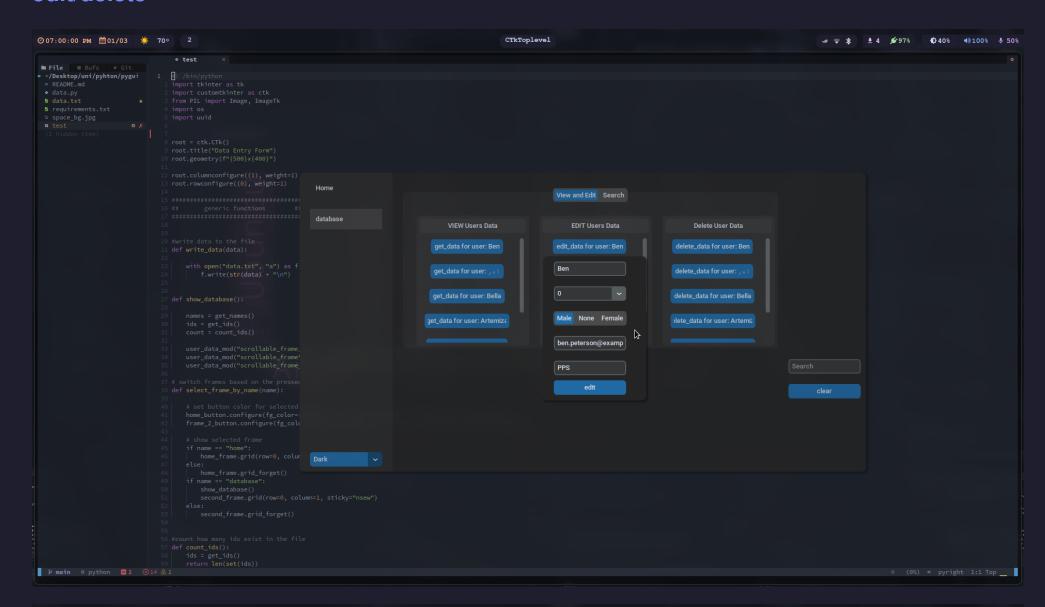
## view data

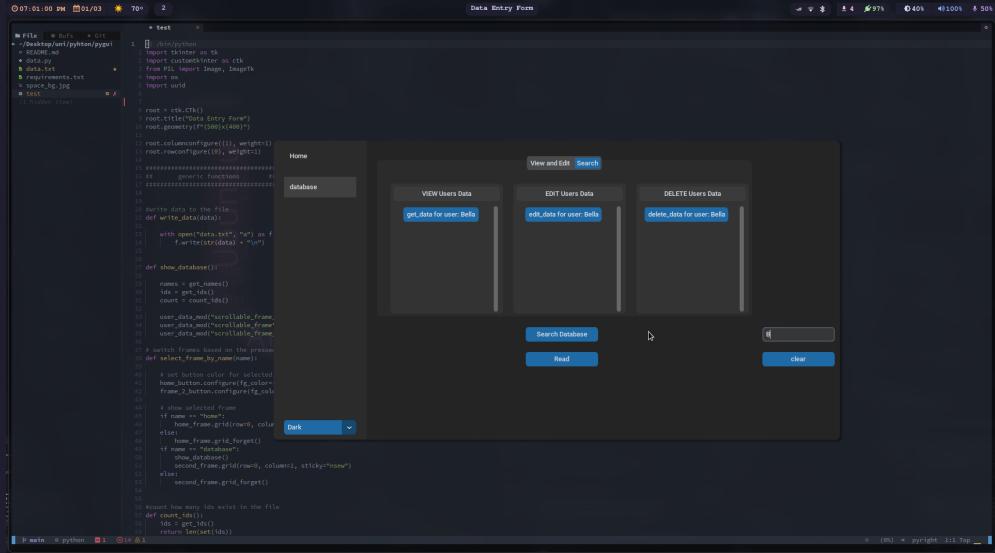


this function reads the file and finds the button clicked and shows the data for the user

```
def read_user_data(user_id):
    with open("data.txt", "r") as file:
        for line in file:
        user = eval(line)
        if user["ID"] == user_id:
            return line
    return None
```

## edit/delete





this functions is used to edit and delete any records

```
def edit_data(user_id, mode,data=[]):
    with open("data.txt", "r") as file:
        lines = file.readlines()
   with open("data.txt", "w") as file:
            line = eval(line)
                file.write(str(line) + "\n")
                print(line)
            else:
                if (mode == "edit"):
                        "Name": data["Name"].get(),
                        "Age": data["Age"].get(),
                        "Gender": data["Gender"].get(),
                        "Email": data["Email"].get(),
                        "Address": data["Address"].get()
                    print(data)
                    file.write(str(data) + "\n")
                    print(f"got edited: {line}")
```

```
elif (mode == "elete"):
    print(f"got deleted: {line}")
```

this is all the code with the gui elements but it wont work since you dont have the background image on the same folder as the script you can name any image space\_bg.jpg and put it in the same folder as the script to get it to work

if you dont want to you can clone my github repo and it should work fine

## https://github.com/HqNw/pygui

```
import tkinter as tk
import customtkinter as ctk
from PIL import Image, ImageTk
import os
import uuid
root.title("Data Entry Form")
root.geometry(f"{500}x{400}")
root.columnconfigure((1), weight=1)
root.rowconfigure((0), weight=1)
def write_data(data):
    with open("data.txt", "a") as f:
        f.write(str(data) + "\n")
def show_database():
    names = get_names()
    ids = get_ids()
    user_data_mod("scrollable_frame_edit","scrollable_frame_names_edit",names,ids,count,"edit_data","switch_edit")
    user_data_mod("scrollable_frame","scrollable_frame_names",names,ids,count,"get_data","switch_get")
    user_data_mod("scrollable_frame_delete","scrollable_frame_names_delete",names,ids,count,"delete_data","switch_del")
def select_frame_by_name(name):
    home_button.configure(fg_color=("gray75", "gray25") if name == "home" else "transparent")
    frame_2_button.configure(fg_color=("gray75", "gray25") if name == "database" else "transparent")
    if name == "home":
        home_frame.grid(row=0, column=1, sticky="nsew")
        home_frame.grid_forget()
    if name == "database":
        show_database()
        second_frame.grid(row=0, column=1, sticky="nsew")
    else:
        second_frame.grid_forget()
def count_ids():
    ids = get_ids()
    return len(set(ids))
def get_names():
    with open("data.txt","r") as f:
        names = [eval(line)["Name"] for line in lines]
        return names
def get_ids():
    with open("data.txt", "r") as f:
        ids = [eval(line)["ID"] for line in lines]
        return ids
def button_make(id,call_type):
    if call_type == "get_data":
       get_data(id)
    elif call_type == "edit_data":
       edit_window(id)
    elif call_type == "delete_data":
        delete_data(id)
def search_data():
    input = search_entry.get()
    print("looking for username: ", input)
    search_result(input)
```

```
def search_result(username):
    with open("data.txt","r") as f:
        lines = f.readlines()
            line = eval(line)
            name = line["Name"]
            id = line["ID"]
                names_list=[]
                names_list.append(name)
                ids_list =[]
                ids_list.append(id)
                print(f"found user in search: {name} uuid: {id}")
    result_window(names_list,ids_list)
def result_window(name_list,id_list):
    count = len(id_list)
    user_data_mod("search_frame_edit","search_frame_edit_list",name_list,id_list,count,"edit_data","switch_edit")
    user_data_mod("search_frame_names","search_frame_names_list",name_list,id_list,count,"get_data","switch_get")
    user_data_mod("search_frame_delete","search_frame_delete_list",name_list,id_list,count,"delete_data","switch_del")
def user_data_mod(master,list, names,ids,count, call_type, switch):
    for i in range(count):
        id = ids[i]
        switch = ctk.CTkButton(master=eval(master), text=f"{call_type} for user: {name}")
        switch.grid(row=i, column=0, padx=10, pady=(0, 20))
        switch.configure(command=lambda id=id ,call_type=call_type : button_make(id,call_type))
        print(f"dynamic {id}")
        eval(list).append(switch)
    return list
def get_data(id):
    user_data = read_user_data(id)
    user_data = eval(user_data)
    window = ctk.CTkToplevel(second_frame)
    window_label = ctk.CTkLabel(window)
    window_label.grid(row=0 , column=0)
    window_label.configure(text =f"""uuid: {user_data["ID"]}
    Name: {user_data["Name"]}
    Age: {user_data["Age"]}
    Gender: {user_data["Gender"]}
    Email: {user_data["Email"]}
    address: {user_data["Address"]}
    print(user_data)
def read_user_data(user_id):
    with open("data.txt", "r") as file:
        for line in file:
            user = eval(line)
            if user["ID"] == user_id:
                return line
    return None
def delete_user(user_id):
    with open("data.txt", "r") as file:
    with open("data.txt", "w") as file:
        for line in lines:
            line = eval(line)
            if line['ID'] != user_id:
                file.write(str(line) + "\n")
                print(line)
            else:
                print(f"got deleted: {line}")
def edit_window(data):
    search_result_window = None
    if search_result_window is None or not search_result_window.winfo_exists():
        search_result_window = ctk.CTkToplevel(second_frame)
    else:
        search_result_window.focus()
    data = eval(read_user_data(data))
    name_edit_entry_var = ctk.StringVar(value=data["Name"])
    name_edit_entry = ctk.CTkEntry(search_result_window ,textvariable=name_edit_entry_var)
    name_edit_entry.grid(row=0, column=1,padx=20, pady=10)
    combobox_var = ctk.StringVar(value=data["Age"])
    age_edit_entry = ctk.CTkComboBox(search_result_window, values=age_to_100, command=combobox_callback, variable=combobox_var)
    age_edit_entry.grid(row=1, column=1,padx=20, pady=10)
    segemented_button_var = ctk.StringVar(value=data["Gender"].capitalize())
    gender_edit_entry = ctk.CTkSegmentedButton(search_result_window, values=["Male", "None", "Female"], variable=segemented_button_var)
```

```
email_edit_entry_var = ctk.StringVar(value=data["Email"])
    email_edit_entry = ctk.CTkEntry(search_result_window ,textvariable=email_edit_entry_var)
    email_edit_entry.grid(row=3, column=1,padx=20, pady=10)
    address_edit_entry_var = ctk.StringVar(value=data["Address"])
    address_edit_entry = ctk.CTkEntry(search_result_window ,textvariable=address_edit_entry_var)
    address_edit_entry.grid(row=4, column=1,padx=20, pady=10)
        "Name": name_edit_entry,
        "Age": age_edit_entry,
        "Gender": gender_edit_entry,
        "Email": email_edit_entry,
        "Address": address_edit_entry
    print(line)
    edit_window_button = ctk.CTkButton(search_result_window, text="edit", command=lambda id=data["ID"],line= line:edit_data(id,"edit",line) )
    edit_window_button.grid(row=5, column=1, padx=10, pady=(0, 20))
    return line
def edit_data(user_id, mode,data=[]):
    with open("data.txt", "r") as file:
        lines = file.readlines()
    with open("data.txt", "w") as file:
        for line in lines:
            line = eval(line)
                file.write(str(line) + "\n")
                print(line)
            else:
                if (mode == "edit"):
                        "Name": data["Name"].get(),
                        "Age": data["Age"].get(),
                        "Gender": data["Gender"].get(),
                        "Email": data["Email"].get(),
                        "Address": data["Address"].get()
                    print(data)
                    file.write(str(data) + "\n")
                    print(f"got edited: {line}")
                elif (mode == "elete"):
                    print(f"got deleted: {line}")
def home_button_event():
    select_frame_by_name("home")
def frame_2_button_event():
    select_frame_by_name("database")
def change_appearance_mode_event( new_appearance_mode: str):
    ctk.set_appearance_mode(new_appearance_mode)
navigation_frame = ctk.CTkFrame(root,width=140, corner_radius=0)
navigation_frame.grid(row=0, column=0,rowspan=3, sticky="nsew")
navigation_frame.grid_rowconfigure(3, weight=1)
home_button = ctk.CTkButton(navigation_frame, corner_radius=0, height=40, border_spacing=10, text="Home", fg_color="transparent", text_color=("gray10",
"gray90"), hover_color=("gray70", "gray30"), anchor="w", command=home_button_event)
home_button.grid(row=0, column=0, padx=20, pady=10, sticky="ew")
frame_2_button = ctk.CTkButton(navigation_frame, corner_radius=0, height=40, border_spacing=10, text="database", fg_color="transparent", text_color=
("gray10", "gray90"), hover_color=("gray70", "gray30"), anchor="w", command=frame_2_button_event)
frame_2_button.grid(row=1, column=0, padx=20, pady=10, sticky="ew")
appearance_mode_optionemenu = ctk.CTkOptionMenu(navigation_frame, values=["Dark", "Light", "System"],command=change_appearance_mode_event)
appearance_mode_optionemenu.grid(row=6, column=0, padx=20, pady=(10, 10))
home_frame = ctk.CTkFrame(root, corner_radius=0, fg_color="transparent")
home_frame.grid_columnconfigure(0, weight=1)
second_frame = ctk.CTkFrame(root, corner_radius=0, fg_color="transparent")
second_frame.grid_columnconfigure(0, weight=1)
```

gender\_edit\_entry.grid(row=2, column=1,padx=20, pady=10)

```
IMAGE_PATH = 'space_bg.jpg'
IMAGE_PATH = os.path.abspath(IMAGE_PATH)
img = ImageTk.PhotoImage(Image.open(IMAGE_PATH))
lbl = tk.Label(home_frame, image=img)
lbl.img = img # Keep a reference in case this code put is in a function.
lbl.place(relx=0.5, rely=0.5, anchor='center')
def combobox_callback(choice):
    print("combobox dropdown clicked:", choice)
home_frame.columnconfigure((0,5), weight=1)
home_frame.columnconfigure(0,weight=3)
home_frame.rowconfigure((1), weight=1)
login_frame = ctk.CTkFrame(home_frame, corner_radius=10,height=300, fg_color="transparent" )
login_frame.grid_columnconfigure((0,1,2), weight=1)
login_frame.grid(row=1,column=2)
data_frame = ctk.CTkFrame(home_frame, corner_radius=10,height = login_frame.cget('height'), fg_color="transparent" )
data_frame.grid_columnconfigure((0,1,2), weight=1)
data_frame.grid(row=1,column=1)
data_frame_2 = ctk.CTkFrame(data_frame, corner_radius=10,bg_color="#1E1E1E", fg_color="transparent" )
data_frame_2.grid_columnconfigure(0, weight=1)
data_frame_2.grid(row=0,column=0,padx=30, pady=30)
data_label = ctk.CTkLabel(data_frame_2,justify="left", text="""
hi this was made by ahemd this is a fast how use
firs you enter any data you want to save and add it
data is stored like this in a
file called "data.txt" in the same folder as the script:
    data = {
    "Name": name_entry.get(),
    "Age": age_entry.get(),
    "Gender": gender_entry.get(),
    "Email": email_entry.get(),
    "Address": address_entry.get()
this appends to the file in this format
if you want to view, edit or delete any data from the
file the need to go to the "database" tab from the left and
you will find the stuff you are looking for :)
data_label.grid(row=0 ,column=0,padx=5, pady=5)
name_label = ctk.CTkLabel(login_frame, text="Name:")
name_label.grid(row=0 ,column=0,padx=20, pady=10)
age_label = ctk.CTkLabel(login_frame, text="Age:")
age_label.grid(row=1 ,column=0,padx=20, pady=10)
gender_label = ctk.CTkLabel(login_frame, text="Gender:")
gender_label.grid(row=2 ,column=0,padx=20, pady=10)
email_label = ctk.CTkLabel(login_frame, text="Email:")
email_label.grid(row=3 ,column=0,padx=20, pady=10)
address_label = ctk.CTkLabel(login_frame, text="Address:")
address_label.grid(row=4 ,column=0,padx=20, pady=10)
name_entry = ctk.CTkEntry(login_frame ,placeholder_text="Name")
age_to_100=[]
for i in range(100):
    age_to_100 = tuple(list(age_to_100)+[str(i)])
combobox_var = ctk.StringVar(value="0") # set initial value
age_entry = ctk.CTkComboBox(login_frame, values=age_to_100, command=combobox_callback, variable=combobox_var)
age_entry.grid(row=1, column=1,padx=20, pady=10)
segemented_button_var = ctk.StringVar(value="None")
gender_entry = ctk.CTkSegmentedButton(login_frame, values=["Male", "None", "Female"], variable=segemented_button_var)
gender_entry.grid(row=2, column=1,padx=20, pady=10)
email_entry = ctk.CTkEntry(login_frame ,placeholder_text="Email")
email_entry.grid(row=3, column=1,padx=20, pady=10)
address_entry = ctk.CTkEntry(login_frame ,placeholder_text="Address")
address_entry.grid(row=4, column=1,padx=20, pady=10)
```

def add\_tab():

```
tabview = ctk.CTkTabview(second_frame, width=250)
    tabview.grid(row=0, column=0,padx=(20,10), pady=(20, 20), sticky="nsew")
    tabview.add("View and Edit")
    tabview.add("Search")
    tabview.tab("View and Edit").grid_columnconfigure((0,1,2), weight=1)
    tabview.tab("Search").grid_columnconfigure((0,1,2), weight=1)
    return tabview
tabview = add_tab()
def clear():
    list = scrollable_frame.grid_slaves()
    print(list)
    for l in list:
        print(l)
        l.destroy()
    add_tab()
clear_button = ctk.CTkButton(second_frame, text="clear", command=clear)
clear_button.grid(row=5, column=1, padx=10, pady=(0, 20))
def save_data():
    data = {
    "ID": str(uuid.uuid1()),
    "Name": name_entry.get(),
    "Age": age_entry.get(),
    "Gender": gender_entry.get(),
    "Email": email_entry.get(),
    "Address": address_entry.get()
    write_data(data)
    name_entry.delete(0, tk.END)
    age_entry.delete(0, tk.END)
    gender_entry.delete(0, tk.END)
    email_entry.delete(0, tk.END)
    address_entry.delete(0, tk.END)
save_button = ctk.CTkButton(login_frame, text="Add new record", command=save_data)
scrollable_frame = ctk.CTkScrollableFrame(tabview.tab("View and Edit"), label_text="VIEW Users Data")
scrollable_frame.grid(row=0, column=0, padx=(20, 0), pady=(20, 0), sticky="nsew")
scrollable_frame.grid_columnconfigure(0, weight=1)
scrollable_frame_names = []
scrollable_frame_edit = ctk.CTkScrollableFrame(tabview.tab("View and Edit"), label_text="EDIT Users Data")
scrollable_frame_edit.grid(row=0, column=1, padx=(20, 0), pady=(20, 0), sticky="nsew")
scrollable_frame_edit.grid_columnconfigure(0, weight=1)
scrollable_frame_names_edit = []
scrollable_frame_delete = ctk.CTkScrollableFrame(tabview.tab("View and Edit"), label_text="Delete User Data")
scrollable_frame_delete.grid(row=0, column=2, padx=(20, 0), pady=(20, 0), sticky="nsew")
scrollable_frame_delete.grid_columnconfigure(0, weight=1)
scrollable_frame_names_delete = []
search_frame_names = ctk.CTkScrollableFrame(tabview.tab("Search"), label_text="VIEW Users Data")
search_frame_names.grid(row=0, column=0, padx=(20, 0), pady=(20, 0), sticky="nsew")
search_frame_names.grid_columnconfigure(0, weight=1)
search_frame_names_list = []
search_frame_edit = ctk.CTkScrollableFrame(tabview.tab("Search"), label_text="EDIT Users Data")
search_frame_edit.grid(row=0, column=1, padx=(20, 0), pady=(20, 0), sticky="nsew")
search_frame_edit.grid_columnconfigure(0, weight=1)
search_frame_edit_list = []
search_frame_delete = ctk.CTkScrollableFrame(tabview.tab("Search"), label_text="DELETE Users Data")
search_frame_delete.grid(row=0, column=2, padx=(20, 0), pady=(20, 0), sticky="nsew")
search_frame_delete.grid_columnconfigure(0, weight=1)
search_frame_delete_list = []
def delete_data (user_id):
    delete_user(user_id)
search = ctk.CTkButton(second_frame, text="Search Database", command=search_data)
search_entry = ctk.CTkEntry(second_frame ,placeholder_text="Search")
def read_data():
    with open("data.txt", "r") as f:
        for line in lines:
           data = eval(line)
            print("ID:", data["ID"])
            print("Name:", data["Name"])
            print("Age:", data["Age"])
```