

Week 5 Set 2: Connecting Tkinter with sqlite DB

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In [8]: from tkinter import *
from tkinter import ttk
from tkinter import filedialog
from tkinter import messagebox
import sqlite3

root = Tk()
root.geometry('1000x1000')
root.configure(bg='#fff')

#####
### DATABASES ###
#####

# create or connect to a db
conn = sqlite3.connect('job_application.db')

# create a cursor
c = conn.cursor()

# create a table
c.execute("""CREATE TABLE jobdetails (
    fname text,
    lname text,
    email text,
    city text,
    state text,
    zipcode integer
)""")

# create funmit function for database
def submit():
    conn = sqlite3.connect('job_application.db')
    c = conn.cursor()

    # insert into table
    c.execute("INSERT INTO jobdetails VALUES (:fname, :lname, :email, :city, :state, :zipcode)", {
        'fname': E1_1.get(),
        'lname': E1_2.get(),
        'email': E2.get(),
        'city': E5_4.get(),
        'state': E5_5.get(),
        'zipcode': E5_6.get()
    })

    c.execute("SELECT * FROM jobdetails")
    print('The values stored in the database are: ')
    print(c.fetchall())

    conn.commit()
    conn.close()

    E1_1.delete(0, END)
    E1_2.delete(0, END)
    E2.delete(0, END)
    E5_4.delete(0, END)
    E5_5.delete(0, END)
    E5_6.delete(0, END)

#####
### TKINTER ###
#####

main = Label(root, text='Job Application', bg='#fff', font='40').pack()

top = LabelFrame(root, padx=10, pady=10)
top.pack(padx=30, pady=30)
top.configure(borderwidth=0, bg='#fff')

# PERSONAL INFO
H1 = Label(top, text = "Personal Information", bg='#fff', fg='#8e1600', font='20').grid(sticky="W", row=0, column=0)

# NAME
L1 = Label(top, text = "Name", bg='#fff').grid(sticky="W", row=1, column=0)
E1_1 = Entry(top, bd=0, bg='#eee')
E1_1.grid(sticky="W", row=1, column=1)
E1_2 = Entry(top, bd=0, bg='#eee')
E1_2.grid(sticky="W", row=1, column=2)

# EMAIL
L2 = Label(top, text = "Email", bg='#fff').grid(sticky="W", row=2, column=0)
E2 = Entry(top, bd=0, bg='#eee')
E2.grid(sticky="W", row=2, column=1, columnspan=2)

# EDUCATION FROM
L3 = Label(top, text = "Education", bg='#fff').grid(sticky="W", row=3, column=0)
E3 = ttk.Combobox(top)
E3.insert(0, 'Select')
E3['values'] = ('abc', 'def', 'ghi', 'jkl')
E3.grid(sticky="W", row=3, column=1, columnspan=2)

# RESUME
def open():
    top.filename = filedialog.askopenfilename(initialdir='/', title='Select a File', filetypes=(('png files', '*.png'), ('all files', '*.*')))
    L4 = Label(top, text = "Resume", bg='#fff').grid(sticky="W", row=4, column=0)
    btn4 = Button(top, text='Open File', command=open).grid(sticky="W", row=4, column=1)

# ADDRESS
L5 = Label(top, text = "Address", bg='#fff').grid(sticky="W", row=5, column=0)
E5_1 = Entry(top, bd=0, bg='#eee')
E5_1.grid(sticky="W", row=5, column=1, columnspan=2)
E5_2 = Entry(top, bd=0, bg='#eee')
E5_2.grid(sticky="W", row=5, column=1, columnspan=2)

E5_3 = ttk.Combobox(top)
E5_3.insert(0, 'Select a Country')
E5_3['values'] = ('India', 'USA', 'Afghanistan', 'Egypt')
E5_3.grid(sticky="W", row=7, column=1, columnspan=2)

# CITY
E5_4 = Entry(top, bd=0, bg='#eee', width=15)
E5_4.insert(0, 'City')
E5_4.grid(sticky="W", row=8, column=1)

# STATE
E5_5 = Entry(top, bd=0, bg='#eee')
E5_5.insert(0, 'State')
E5_5.grid(sticky="W", row=8, column=2)

# ZIPCODE
E5_6 = Entry(top, bd=0, bg='#eee')
E5_6.insert(0, 'Zip Code')
E5_6.grid(sticky="W", row=8, column=3)

L6 = Label(top, text = "Phone Number", bg='#fff').grid(sticky="W", row=9, column=0)
E6_1 = Entry(top, bd=0, bg='#eee')
E6_1.grid(sticky="W", row=9, column=1)
E6_2 = Entry(top, bd=0, bg='#eee')
E6_2.grid(sticky="W", row=9, column=2)

L7 = Label(top, text = "What are your hobbies", bg='#fff').grid(sticky="W", row=10, column=0)
E7 = Entry(top, bd=0, bg='#eee')
E7.grid(sticky="W", row=11, column=0)

# PRECIOUS / CURRENT EMPLOYEEMENT DETAILS
H2 = Label(top, text = "Precious/Current Employment Details", bg='#fff', fg='#8e1600', font='20').grid(sticky="W", row=12, column=0)

L8 = Label(top, text = "Company Name", bg='#fff').grid(sticky="W", row=13, column=0)
E8 = Entry(top, bd=0, bg='#eee')
E8.grid(sticky="W", row=13, column=1)

L9 = Label(top, text = "Job Title", bg='#fff').grid(sticky="W", row=14, column=0)
E9 = Entry(top, bd=0, bg='#eee')
E9.grid(sticky="W", row=14, column=1)

L10 = Label(top, text = "How long were you here?", bg='#fff').grid(sticky="W", row=15, column=0)
E10 = Entry(top, bd=0, bg='#eee')
E10.grid(sticky="W", row=15, column=1)

# REFERENCE #1
H3 = Label(top, text = "Reference #1", bg='#fff', fg='#8e1600', font='20').grid(sticky="W", row=16, column=0)

L11 = Label(top, text = "Name", bg='#fff').grid(sticky="W", row=17, column=0)
E11 = Entry(top, bd=0, bg='#eee')
E11.grid(sticky="W", row=17, column=1)

L12 = Label(top, text = "Phone", bg='#fff').grid(sticky="W", row=18, column=0)
E12 = Entry(top, bd=0, bg='#eee')
E12.grid(sticky="W", row=18, column=1)

# REFERENCE #2
H4 = Label(top, text = "Reference #2", bg='#fff', fg='#8e1600', font='20').grid(sticky="W", row=19, column=0)

L13 = Label(top, text = "Name", bg='#fff').grid(sticky="W", row=20, column=0)
E13 = Entry(top, bd=0, bg='#eee')
E13.grid(sticky="W", row=20, column=1)

L14 = Label(top, text = "Phone", bg='#fff').grid(sticky="W", row=21, column=0)
E14 = Entry(top, bd=0, bg='#eee')
E14.grid(sticky="W", row=21, column=1)

def msgg():
    msg = messagebox.showinfo('GUI Event Demo', 'Form Submitted!')
    btnApply = Button(top, text='Apply', command=submit).grid(sticky="W", row=23, column=1)

def delete():
    E1_1.delete(0, 'end')
    E1_2.delete(0, 'end')
    E2.delete(0, 'end')
    E5_1.delete(0, 'end')
    E5_2.delete(0, 'end')
    E5_4.delete(0, 'end')
    E5_5.delete(0, 'end')
    E5_6.delete(0, 'end')
    E6_1.delete(0, 'end')
    E6_2.delete(0, 'end')
    E7.delete(0, 'end')
    E8.delete(0, 'end')
    E9.delete(0, 'end')
    E10.delete(0, 'end')
    E11.delete(0, 'end')
    E12.delete(0, 'end')
    E13.delete(0, 'end')
    E14.delete(0, 'end')

btnReset = Button(top, text='Reset', command=delete).grid(sticky="W", row=23, column=2)

top.mainloop()

The values stored in the database are:
[('Tanisha', 'Bisht', 'agamyatani@gmail.com', 'Anna Nagar', 'Chennai', 600049), ('Saachi', 'Gupta', 'saachad@gmail.com', 'Rohini', 'Delhi', 100293), ('Reetu', 'Raghav', 'root2real@gmail.com', 'Koyambedu', 'Chennai', 600029)]
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