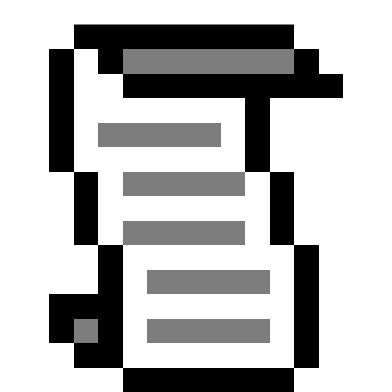
Computer Science Project

on Scribe, a simple notes and task organization application Using Python



made by – Shreyaash Thakur

all files have been made available on

<https://github.com/randomeduck/scribe>

ACKNOWLEDGEMENT

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Shreyaash Thakur

Introduction

This project is based on "Scribe" – a simple note taking app.

In this fast-paced world, staying organized and remembering important information can be a challenging task. "Scribe" is a dependable digital tool designed to simplify note-taking needs. Developed by Shreyaash, "Scribe" is a user-friendly application that has the features necessary to jot down tasks and capture essential notes with ease. Whether it be keeping track of a to-do list or capturing vital information, "Scribe" provides a seamless experience, allowing the user focus on more important tasks due to its minimalistic interface. With a clean and intuitive layout, it offers a hassle-free way to manage tasks and notes efficiently.

Software Used

Python 3.11 on Windows 11

Python modules used:

* Pickle
* CSV
* Tkinter

The notes are stored on a binary file titled ‘notes.dat’ and the tasks list appears on a csv file called ‘tasklist.csv’

The icon for the app was made by the developer

Source Code

# -\*- coding: utf-8 -\*-

"""

Created on Fri Oct 20 09:11:34 2023

@author: Shreyaash

"""

from pickle import load,dump

import csv

import tkinter as tk

win=tk.Tk()

win.title("Scribe")

win.geometry("1200x500")

win.resizable(False,False)

win.iconbitmap('scribe.ico')

win.configure(bg='#f4bf96')

def addtask():

task = aten.get()

try:

with open('tasklist.csv', 'a', newline='') as fh:

wo = csv.writer(fh)

wo.writerow([task])

except FileNotFoundError:

with open('tasklist.csv', 'w', newline='') as fh:

wo = csv.writer(fh)

wo.writerow([task])

aten.delete(0, tk.END)

tasklist()

def tasklist():

tlist.delete(0, tk.END)

tasks=[]

try:

with open('tasklist.csv','r') as fh:

ro=csv.reader(fh)

for i in ro:

tasks.append(' '.join(i))

for i in tasks:

tlist.insert(tk.END, i)

except FileNotFoundError:

return

def deltask():

selection = tlist.get(tlist.curselection())

tasks=[]

with open('tasklist.csv','r') as fh:

ro=csv.reader(fh)

for i in ro:

if ' '.join(i)!=selection:

tasks.append(i)

with open('tasklist.csv', 'w', newline='') as fh:

wo = csv.writer(fh)

wo.writerows(tasks)

tasklist()

def save():

title = ten.get()

con = tcon.get("1.0", tk.END)

if title.strip() and con.strip():

with open('notes.dat', 'rb') as fh:

titlist=[]

reclist=[]

while True:

try:

rec=load(fh)

titlist.append(rec['title'])

reclist.append(rec)

except EOFError:

break

if title in titlist:

for i in reclist:

if i['title']==title:

i['con']=con

else:

notes={}

notes['title'] = title

notes['con'] = con

reclist.append(notes)

with open('notes.dat', 'wb') as fh:

for i in reclist:

dump(i,fh)

loadlist()

clearstuff()

def clearstuff():

ten.delete(0, tk.END)

tcon.delete("1.0", tk.END)

def dele():

title = ten.get()

if title.strip():

found=False

tlist=[]

with open('notes.dat','rb') as fh:

while True:

try:

rec=load(fh)

if rec['title']==title:

found=True

else:

tlist.append(rec)

except EOFError:

fh.close()

break

if found==True:

with open('notes.dat','wb') as fh:

for i in tlist:

dump(i,fh)

loadlist()

clearstuff()

def loadlist():

nbox.delete(0, tk.END)

titlist=[]

try:

with open('notes.dat', 'rb') as fh:

while True:

try:

rec=load(fh)

titlist.append(rec['title'])

except EOFError:

break

for i in titlist:

nbox.insert(tk.END, i)

except FileNotFoundError:

return

def loadnote(event):

selection = nbox.get(nbox.curselection())

with open('notes.dat', 'rb') as fh:

while True:

try:

rec=load(fh)

if rec['title']==selection:

ten.delete(0, tk.END)

ten.insert(tk.END, selection)

tcon.delete("1.0", tk.END)

tcon.insert(tk.END, rec['con'])

except EOFError:

break

def tasks():

if todo.winfo\_x()<0:

todo.place(x=0, y=0)

notes.place(x=700,y=0)

else:

todo.place(x=-500, y=0)

notes.place(x=0,y=0)

todo=tk.Frame(win)

todo.pack(side=tk.LEFT, padx=10, pady=10)

todo.place(x=-200,y=0)

todo.configure(bg='#f4bf96')

tl=tk.Frame(todo)

tl.pack(side=tk.TOP,padx=10,pady=10)

tl.configure(bg='#ce5a67')

lifr=tk.Frame(tl)

lifr.pack(side=tk.LEFT,padx=10,pady=10)

lifr.configure(bg='#fcf5ed')

rifr=tk.Frame(tl)

rifr.pack(side=tk.RIGHT,padx=10,pady=10)

rifr.configure(bg='#ce5a67')

tlist=tk.Listbox(lifr, width=80,height=20)

tlist.pack(side=tk.LEFT,padx=10,pady=10)

delb=tk.Button(rifr,text='Delete Task',command=deltask)

delb.pack(side=tk.BOTTOM,padx=5,pady=5)

scroll2=tk.Scrollbar(lifr,command=tlist.yview)

scroll2.pack(side=tk.RIGHT,fill=tk.Y)

tlist.config(yscrollcommand=scroll2.set)

at=tk.Frame(todo)

at.pack(side=tk.BOTTOM,padx=10,pady=10)

at.configure(bg='#f4bf96')

atlab=tk.Label(at,text='Task:')

atlab.pack()

atlab.configure(bg='#f4bf96')

aten=tk.Entry(at,width=100)

aten.pack(side=tk.TOP, padx=10, pady=5)

ab=tk.Button(at,text="Add Task",command=addtask)

ab.pack(pady=5)

notes=tk.Frame(win)

notes.pack(side=tk.RIGHT, padx=10, pady=10)

notes.place(x=0,y=0)

notes.configure(bg='#f4bf96')

nfr=tk.Frame(notes)

nfr.pack(side=tk.LEFT,padx=10,pady=10)

nfr.configure(bg='#f4bf96')

todob=tk.Button(nfr,text='Tasks',command=tasks)

todob.pack(side=tk.LEFT,padx=10,pady=10)

nbox=tk.Listbox(nfr, width=35,height=20)

nbox.pack(side=tk.LEFT,padx=10,pady=10)

nbox.bind("<Double-Button-1>", loadnote)

scroll=tk.Scrollbar(nfr,command=nbox.yview)

scroll.pack(side=tk.RIGHT,fill=tk.Y)

nbox.config(yscrollcommand=scroll.set)

cfr=tk.Frame(notes)

cfr.pack(side=tk.RIGHT,padx=10,pady=10)

cfr.configure(bg='#fcf5ed')

tlab=tk.Label(cfr,text='Title:')

tlab.pack()

tlab.configure(bg='#fcf5ed')

ten=tk.Entry(cfr,width=100)

ten.pack(side=tk.TOP, padx=10, pady=5)

tlab2=tk.Label(cfr, text='Content:')

tlab2.pack()

tlab2.configure(bg='#fcf5ed')

tcon=tk.Text(cfr, width=100, height=20)

tcon.pack(padx=10,pady=5)

saveb=tk.Button(cfr,text="Save",command=save)

saveb.pack(side=tk.LEFT,padx=10,pady=5)

deleb=tk.Button(cfr,text="Delete",command=dele)

deleb.pack(side=tk.RIGHT,padx=10,pady=5)

tasklist()

loadlist()

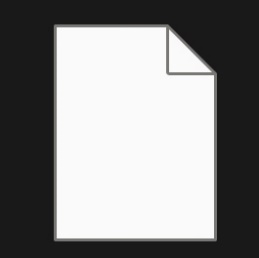
tasks()

tasks()

win.mainloop()

Files Part Of The Project

 scribe.ico

 notes.dat

 tasklist.csv

 scribe.exe

Bibliography

Stack Overflow:

<https://www.stackoverflow.com/>

Python Documentation:

<https://docs.python.org/3.11/>

Tkinter Documentation:

<https://docs.python.org/3/library/tk.html>

GeeksforGeeks:

<https://geeksforgeeks.org/>