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PROJECT PLAN

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Class: **12 B**

REG NO:

Project Name: **Pharmacy Manager**

Members: **Lince Louis**

Duration: **2 Months**

Date of submission:

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INTRODUCTION

We have developed a project on stock management for a pharmacy.

Stock management is a difficult process that involves many people. We believe that we can greatly reduce the labor required to keep up with a large store, by providing an efficient and robust stock management system.

We believe that this program can help pharmacies or even other stores for managing their stocks.

FILES AND FUNCTIONS

Types of files used – Database files

Modules used

Pillow

Tkinter

Customtkinter

SQLite3

OS

CtkTable

Files used

Ctktable.py

userdat.db

loginbackground.jpg

Logo.ico

Functions Used

def newuse()

def submitted()

def loginsubev()

def loginsub()

def gridmake()

def frames()

def adbt()

def rembt()

def adtotree()

def remfromtree()

def modbt()

def modifytree()

def search()

def add()

def rembut()

SOURCE CODE

```
import customtkinter as ctk #UI elements
import tkinter as tk # for extra ui elements
from tkinter import messagebox #for displaying messsages
from PIL import Image #for background images
from ctktable import CTkTable #Module for ctk tables
import sqlite3 as mydb #for storing data in database
import os # for deletion of files

ctk.set_appearance_mode('Dark')

#database for user data
userdatdir = os.path.dirname(__file__)
userdatpath = os.path.join(userdatdir, 'userdat.db')
con = mydb.connect(userdatpath)
cur = con.cursor()

#image background
global backgroundpath
backgrounddir = os.path.dirname(__file__)
backgroundpath = os.path.join(backgrounddir, 'Image
files\loginbackground.jpg')

#icon for program
global iconpath
icondir = os.path.dirname(__file__)
iconpath = os.path.join(icondir, 'Image files\Logo.ico')

#variable for checking if signed in or not
global signed
signed = False

#login window
class App(ctk.CTk):
    def __init__(self):
        super().__init__()

        screen_width = self.winfo_screenwidth()
        screen_height = self.winfo_screenheight()
        x_cordinate = int((screen_width/2) - (800/2))
        y_cordinate = int((screen_height/2) - (600/2))
        self.geometry(f'800x600+{x_cordinate}+{y_cordinate}')
        self.resizable(False, False)
```

```

        self.iconbitmap(iconpath)

        self.title('Pharmacy Manager')

        # background
        back = ctk.CTkImage(light_image=Image.open(backgroundpath),
                             dark_image=Image.open(backgroundpath),
                             size=(1600, 800))

        label = ctk.CTkLabel(self, image=back)
        label.pack()

        self.frame = loginfr(self)

        self.mainloop()

#frame inside login window
class loginfr(ctk.CTkFrame):
    def __init__(self, parent):
        super().__init__(parent, corner_radius=15, bg_color='#75b1a9',
                          width=350, height=400)

        # submit command
        def newuse(event):
            parent.destroy()

        class newuswin(ctk.CTk):
            def __init__(self):
                super().__init__()

                self.iconbitmap(iconpath)
                self.title('Pharmacy Manager')
                self.geometry('800x700')
                self.resizable(False, False)

                # background
                back =
ctk.CTkImage(light_image=Image.open(backgroundpath),
               dark_image=Image.open(backgroundpath),
               size=(1600, 800))

                label = ctk.CTkLabel(self, image=back)
                label.pack()

                self.newframe = newframe(self)

                self.mainloop()

```



```

class newframe(ctk.CTkFrame):
    def __init__(self, parentnew):
        super().__init__(parentnew, corner_radius=15,
bg_color='#75b1a9', width=350, height=470)

    def submitted():
        if newpassvar.get() == confpassvar.get():
            if newuservar.get() != '':
                cur.execute('select * from user')
                users = cur.fetchall()
                for i in users:

                    if newuservar.get() in i:
                        messagebox.showerror('Error', 'User
already exists', icon='error')

                        break

                    else:
                        if newpassvar.get() == '' or
confpassvar.get() == '':
                            messagebox.showerror('error',
'Password must be entered', icon='error')

                        else:
                            q = 'insert into user values("{} ",
"{}")'.format(newuservar.get(), newpassvar.get())
                            cur.execute(q)
                            con.commit()

                            parentnew.destroy()
                            App()

                        else:
                            messagebox.showerror('Error', 'Username not
entered', icon='error')

                        else:
                            messagebox.showerror('Error', 'Password does not
match', icon='error')

        # Login Label
        newloginlab = ctk.CTkLabel(self, text='New user',
font=('Futura', 30))
        newloginlab.place(x=175, y=55, anchor=tk.CENTER)

        # username Label, entry
        newuserlab = ctk.CTkLabel(self, text='Username',
font=('Futura', 18))

```

```

        newuserlab.place(x=30, y=110)

        newuservar = ctk.StringVar()
        newuserent = ctk.CTkEntry(self, width=290,
textvariable=newuservar)
        newuserent.place(x=30, y=140)

        # password label, entry
        newpassvar = ctk.StringVar()
        newpasslab = ctk.CTkLabel(self, text='Password',
font=('Futura', 18))
        newpasslab.place(x=30, y=190)

        newpassent1 = ctk.CTkEntry(self, width=290,
textvariable=newpassvar, show='*')
        newpassent1.place(x=30, y=220)

        # confirm pass
        confpassvar = ctk.StringVar()
        confpasslab = ctk.CTkLabel(self, text='Confirm Password',
font=('Futura', 18))
        confpasslab.place(x=30, y=270)

        newpassent = ctk.CTkEntry(self, width=290,
textvariable=confpassvar, show='*')
        newpassent.place(x=30, y=300)

        # submit
        subbutton = ctk.CTkButton(self, text='Submit',
font=('Futura', 24), fg_color='#75b1a9',
                                text_color='Black',
                                hover_color='light green',
command=submitted)
        subbutton.place(x=175, y=380, anchor=tk.CENTER)

        self.place(relx=0.5, rely=0.5, anchor=tk.CENTER)

    newuswin()

    # login label
    loginlab = ctk.CTkLabel(self, text='Login', font=('Futura', 30))
    loginlab.place(x=175, y=55, anchor=tk.CENTER)

    # username label, entry
    userlab = ctk.CTkLabel(self, text='Username', font=('Futura', 18))
    userlab.place(x=30, y=110)

    uservar = ctk.StringVar()

```

```

userent = ctk.CTkEntry(self, width=290, textvariable=uservar)
userent.place(x=30, y=140)

# password label, entry
passlab = ctk.CTkLabel(self, text='Password', font=('Futura', 18))
passlab.place(x=30, y=190)

passvar = ctk.StringVar()
passent = ctk.CTkEntry(self, width=290, textvariable=passvar,
show='*')
passent.place(x=30, y=220)

# newuser
newlab = ctk.CTkLabel(self, text='New User?', font=('Futura', 15))
newlab.place(x=250, y=250)
newlab.bind('<Button-1>', newuse)

def loginsubev(event):
    cur.execute('select * from user')
    rows = cur.fetchall()
    global user
    user = uservar.get()
    for row in rows:
        if row[0] == uservar.get() and row[1] == passvar.get():
            parent.destroy()
            global signed
            signed = True
            break

    else:
        messagebox.showerror('Error', 'Invalid username or password',
icon='error')

def loginsub():
    cur.execute('select * from user')
    rows = cur.fetchall()
    global user
    user = uservar.get()
    for row in rows:
        if row[0] == uservar.get() and row[1] == passvar.get():
            parent.destroy()
            global signed
            signed = True
            break

```

```

        else:
            messagebox.showerror('Error', 'Invalid username or password',
icon='error')

    passent.bind('<Return>', loginsubev)

    # submit
    subbutton = ctk.CTkButton(self, text='Submit', font=('Roboto Medium',
24), fg_color='#75b1a9',
                                hover_color='light green',
text_color='Black',
                                command=loginsub)
    subbutton.place(x=175, y=330, anchor=tk.CENTER, )

    self.place(relx=0.5, rely=0.5, anchor=tk.CENTER)

App()

#window for managing all the shelves
class manage(ctk.CTk):
    def __init__(self):
        super().__init__()

        self.geometry('800x600')
        self.resizable(False, False)
        self.iconbitmap(iconpath)
        self.title('Pharmacy Manager')

        # background
        back = ctk.CTkImage(light_image=Image.open(
            backgroundpath),
            dark_image=Image.open(
                backgroundpath),
            size=(1600, 800))

        label = ctk.CTkLabel(self, image=back)
        label.pack()

        self.contfr = contfr(self)

        self.mainloop()

#frame inside managing window
class contfr(ctk.CTkFrame):
    def __init__(self, parent):

```

```

        super().__init__(parent, corner_radius=15, bg_color='#75b1a9',
width=740, height=540)

        #to make the button grid for each shelf
        def gridmake(id, user):
            framedir = os.path.dirname(__file__)
            framepath = os.path.join(framedir, f'button_frame{id}{user}.db')
            buttoncon = mydb.connect(framepath)
            buttoncur = buttoncon.cursor()
            cur.execute('select * from userprofiles')
            rows = cur.fetchall()
            for row in rows:
                if row[1] == id:
                    columns = row[3]
                    rowtab = row[2]
                    parent.destroy()
                    buttonGrid = ctk.CTk()
                    buttonGrid.iconbitmap(iconpath)
                    buttonGrid.resizable(False, False)
                    buttonGrid.title(f'Shelf: {id}')
                    screen_width = buttonGrid.winfo_screenwidth()
                    screen_height = buttonGrid.winfo_screenheight()
                    width = screen_width*46.8/100
                    height = screen_height*92.59/100
                    buttonGrid.geometry(f'{int(width)}x{int(height)}')
                    # background
                    back = ctk.CTkImage(light_image=Image.open(
                        backgroundpath),
                        dark_image=Image.open(
                            backgroundpath),
                        size=(2200, 1100))
                    label = ctk.CTkLabel(buttonGrid, image=back)
                    label.place(relx=0.5, rely=0.5, anchor=tk.CENTER)

                    def backbuttoncom():
                        buttonGrid.destroy()
                        buttoncon.close()
                        manage()

                    backbuttonfr = ctk.CTkFrame(buttonGrid, corner_radius=15,
bg_color='#75b1a9', width=100, height=60)
                    backbuttonfr.rowconfigure(1, weight=1)
                    backbuttonfr.columnconfigure(1, weight=1)

                    backbuttonfr.place(x= 30, y= 20)
                    backbutton = ctk.CTkButton(backbuttonfr, text='<-Back',
font=('Roboto Medium', 24), fg_color='#75b1a9',

```

```

        hover_color='light green',
text_color='Black', command=backbuttoncom)
        backbutton.grid(row=1, column=1, padx = 10, pady = 10)

        gridfr = ctk.CTkFrame(buttonGrid, corner_radius=15,
bg_color='#75b1a9', width=int(width)-40, height=int(height)-140)
        for i in range(columns):
            gridfr.grid_columnconfigure(i, weight=1)
        for i in range(rowtab + 1):
            gridfr.grid_rowconfigure(i, weight=1)
        gridfr.place(relx=0.5, rely=0.53, anchor=tk.CENTER)
        gridfr.grid_propagate(False)

        #windows which display what is inside each shelf for
adding, modifying, removing items
        def frames(r, c):
            shelf = ctk.CTkToplevel(buttonGrid)
            shelf.iconbitmap(iconpath)
            shelf.config(bg='#75b1a9')
            shelf.title(f'Shelf {r + 1}-{c + 1}')
            shelf.wm_transient(buttonGrid)
            shelf.geometry('600x600')
            shelf.resizable(False, False)

            # background
            back = ctk.CTkImage(light_image=Image.open(
                backgroundpath),
                dark_image=Image.open(
                    backgroundpath),
                size=(1600, 800))

            label = ctk.CTkLabel(shelf, image=back)
            label.pack()

            shfr = ctk.CTkFrame(shelf, corner_radius=15,
bg_color='#75b1a9', width=540, height=540)
            shfr.place(relx=0.5, rely=0.5, anchor=tk.CENTER)
            shfr.grid_propagate(False)
            shfr.columnconfigure((1, 2, 3), weight=1)
            shfr.rowconfigure(1, weight=1)
            shfr.rowconfigure(2, weight=2)
            shfr.rowconfigure(3, weight=2)

            shlab = ctk.CTkLabel(shfr, text=f'Shelf {r + 1}-{c +
1}', font=('Roboto Medium', 24))
            shlab.grid(row=1, column=1, columnspan=3)

```

```

1}')
        buttoncur.execute(f'select * from button{r + 1}_{c +
1}')

        vals = buttoncur.fetchall()
        vl = [('Item', 'Qty', 'Price', 'ID')] + vals

        self.tree = CTkTable(shfr, column=4, row=len(vals) +
1, values=vl)

        self.tree.grid(row=2, column=1, columnspan=3,
sticky='n', padx=20)

        #function to add items
        def adbt():
            adtp = ctk.CTkToplevel(shelf)
            adtp.title('Add Item')
            adtp.wm_transient(shelf)
            adtp.resizable(False, False)
            adtp.geometry('480x360')

            # background
            back = ctk.CTkImage(light_image=Image.open(
                backgroundpath),
                                dark_image=Image.open(
                backgroundpath),
                                size=(1600, 800))

            label = ctk.CTkLabel(adtp, image=back)
            label.pack()

            adfr = ctk.CTkFrame(adtp, corner_radius=15,
bg_color='#75b1a9', width=420, height=300)
            adfr.place(relx=0.5, rely=0.5, anchor=tk.CENTER)

            itmlab = ctk.CTkLabel(adfr, text='Item:',
font=('Roboto Medium', 24))
            itmlab.place(x=40, y=40)

            # item entry
            itmentvar = ctk.StringVar()
            itment = ctk.CTkEntry(adfr,
textvariable=itmentvar, width=240)
            itment.place(x=140, y=40)

            # qty lab and entry
            qtylab = ctk.CTkLabel(adfr, text='Qty:',
font=('Roboto Medium', 24))
            qtylab.place(x=40, y=80)

```

```

        qtyentvar = ctk.StringVar()
        qtyent = ctk.CTkEntry(adfr,
textvariable=qtyentvar, width=240)
        qtyent.place(x=140, y=80)

        # price lab and ent
        prlab = ctk.CTkLabel(adfr, text='Price:',
font=('Roboto Medium', 24))
        prlab.place(x=40, y=120)

        prentvar = ctk.StringVar()
        prent = ctk.CTkEntry(adfr, textvariable=prentvar,
width=240)
        prent.place(x=140, y=120)

        # something id ent and var
        partlab = ctk.CTkLabel(adfr, text='ID:',
font=('Roboto Medium', 24))
        partlab.place(x=40, y=160)

        partentvar = ctk.StringVar()
        partent = ctk.CTkEntry(adfr,
textvariable=partentvar, width=240)
        partent.place(x=140, y=160)

        #for adding items to database and table
        def addtotree():
            if itmentvar.get() and qtyentvar.get() and
prentvar.get() and partentvar.get() != '':

                buttoncur.execute(f'select * from button{r
+ 1}_ {c + 1}')

                records = buttoncur.fetchall()
                for i in records:
                    if i[3] == partentvar.get():
                        messagebox.showerror('error', 'ID
cannot be repeated', icon='error')
                        break
                    else:
                        self.tree.destroy()
                        itm = itmentvar.get()
                        qty = int(qtyentvar.get())
                        pr = float(prentvar.get())
                        part = partentvar.get()
                        q = f'insert into button{r + 1}_ {c +
1} values("{itm}", {qty}, {pr}, "{part}")'
                        buttoncur.execute(q)
                        buttoncon.commit()

```



```

value = [['Item', 'Qty', 'Price']]

buttoncur.execute(f'select * from

button{r + 1}_{c + 1}')

vals = buttoncur.fetchall()
v1 = [('Item', 'Qty', 'Price', 'ID')]

+ vals

self.tree = CTkTable(shfr, column=4,
row=len(vals) + 1, values=v1)

self.tree.grid(row=2, column=1,
columnspan=3, sticky='n', padx=20)

adtp.destroy()

else:
    messagebox.showerror('error', 'All fields
not entered', icon='error')

# subbutt
sbutton = ctk.CTkButton(adfr, text='Submit',
font=('Futura', 24), fg_color='#75b1a9',
                                hover_color='light
green', command=adtotree)
sbutton.place(x=210, y=260, anchor=tk.CENTER)

adbt = ctk.CTkButton(shfr, text='Add', font=('Roboto
Medium', 24), fg_color='#75b1a9',
                                hover_color='light green',
text_color='black', command=adbt)
adbt.grid(row=3, column=1, padx=10, pady=10)

#remove buttin for removing items
def rembt():
    remtp = ctk.CTkToplevel(shelf)
    remtp.title('Remove Item')
    remtp.wm_transient(shelf)
    remtp.resizable(False, False)
    remtp.geometry('240x240')

# background
back = ctk.CTkImage(light_image=Image.open(
    backgroundpath),
    dark_image=Image.open(
        backgroundpath),
    size=(1600, 800))

```

```

        label = ctk.CTkLabel(remtp, image=back)
        label.pack()

        remfr = ctk.CTkFrame(remtp, corner_radius=15,
bg_color='#75b1a9', width=200, height=200)
        remfr.place(relx=0.5, rely=0.5, anchor=tk.CENTER)

        remlab = ctk.CTkLabel(remfr, text='Name:',
font=('Roboto Medium', 24))
        remlab.place(x=20, y=40)

        rementvar = ctk.StringVar()
        rement = ctk.CTkEntry(remfr,
textvariable=rementvar, width=70)
        rement.place(x=100, y=40)

        #function to remove from database and table
        def remfromtree():
            if rementvar.get() != '':
                itm = rementvar.get()
                buttoncur.execute(f'select Item from
button{r+1}_{c+1}')

                result = buttoncur.fetchall()
                if result == []:
                    messagebox.showerror('error', 'Nothing
to remove', icon='error')

                else:

                    q = f'delete from button{r + 1}_{c +
1} where Item = "{itm}"'

                    buttoncur.execute(q)
                    buttoncon.commit()

                    remtp.destroy()
                    self.tree.destroy()

                    buttoncur.execute(f'select * from
button{r + 1}_{c + 1}')

                    vals = buttoncur.fetchall()
                    vl = [('Item', 'Qty', 'Price', 'ID')]
                    + vals

                    self.tree = CTkTable(shfr, column=4,
row=len(vals) + 1, values=vl)

                    self.tree.grid(row=2, column=1,
columnspan=3, sticky='n', padx=20)

```

```

        else:
            messagebox.showerror('error', 'Error Name
not entered', icon='error')

        subbt = ctk.CTkButton(remfr, text='Submit',
font=('Roboto Medium', 18), fg_color='#75b1a9',
                                hover_color='light green',
text_color='black', command=remfromtree)
        subbt.place(x=100, y=140, anchor=tk.CENTER)

        rembt = ctk.CTkButton(shfr, text='Remove',
font=('Roboto Medium', 24), fg_color='#75b1a9',
                                hover_color='light green',
text_color='black', command=rembt)
        rembt.grid(row=3, column=3, padx=10, pady=10)

#button to modify items
def modbt():
    modtp = ctk.CTkToplevel(shelf)
    modtp.title('Modify Item')
    modtp.wm_transient(shelf)
    modtp.resizable(False, False)
    modtp.geometry('360x280')

    # background
    back = ctk.CTkImage(light_image=Image.open(
        backgroundpath),
        dark_image=Image.open(
            backgroundpath),
        size=(1600, 800))

    label = ctk.CTkLabel(modtp, image=back)
    label.pack()

    modfr = ctk.CTkFrame(modtp, corner_radius=15,
bg_color='#75b1a9', width=320, height=240)
    modfr.place(relx=0.5, rely=0.5, anchor=tk.CENTER)

    modidlab = ctk.CTkLabel(modfr, text='ID:',
font=('Roboto Medium', 24))
    modidlab.place(x=20, y=20)

    modidentvar = ctk.StringVar()
    modident = ctk.CTkEntry(modfr,
textvariable=modidentvar, width=200)
    modident.place(x=100, y=20)

```

```

moditmlab = ctk.CTkLabel(modfr, text='Item:',
font=('Roboto Medium', 24))
moditmlab.place(x=20, y=60)

moditmentvar = ctk.StringVar()
moditment = ctk.CTkEntry(modfr,
textvariable=moditmentvar, width=150)
moditment.place(x=100, y=60)

itmcheck = ctk.CTkCheckBox(modfr, text='')
itmcheck.place(x = 275, y= 60)

modqtylab = ctk.CTkLabel(modfr, text='Qty:',
font=('Roboto Medium', 24))
modqtylab.place(x=20, y=100)

modqtyentvar = ctk.StringVar()
modqtyent = ctk.CTkEntry(modfr,
textvariable=modqtyentvar, width=150)
modqtyent.place(x=100, y=100)

qtycheck = ctk.CTkCheckBox(modfr, text='')
qtycheck.place(x = 275, y= 100)

modpricelab = ctk.CTkLabel(modfr, text='Price:',
font=('Roboto Medium', 24))
modpricelab.place(x=20, y=140)

modpriceentvar = ctk.StringVar()
modpriceent = ctk.CTkEntry(modfr,
textvariable=modpriceentvar, width=150)
modpriceent.place(x=100, y=140)

pricecheck = ctk.CTkCheckBox(modfr, text='')
pricecheck.place(x = 275, y= 140)

#function to modify item in database and table
def modifytree():
    if pricecheck.get() or qtycheck.get() or
itmcheck.get() == 1:

        if pricecheck.get() == 1:
            global qr
            qr = f'update button{r+1}_{c+1} set
Price = {int(modpriceentvar.get())} where ID = {int(modidentvar.get())}'

```

```

if pricecheck.get() and qtycheck.get()
and itmcheck.get() == 1:
    qr = f'update button{r+1}_{c+1}
set Price = {int(modpriceentvar.get())}, Qty = {int(modqtyentvar.get())}, Item
= "{moditmentvar.get()}" where ID = {int(modidentvar.get())}'

    elif pricecheck.get() and
itmcheck.get() == 1:
    qr = f'update button{r+1}_{c+1}
set Price = {int(modpriceentvar.get())}, Item = "{moditmentvar.get()}" where
ID = {int(modidentvar.get())}'

    elif itmcheck.get() and qtycheck.get()
== 1:
    qr = f'update button{r+1}_{c+1}
set Item = "{moditmentvar.get()}", Qty = {int(modqtyentvar.get())} where ID =
{int(modidentvar.get())}'

    elif pricecheck.get() and
qtycheck.get() == 1:
    qr = f'update button{r+1}_{c+1}
set Price = {int(modpriceentvar.get())}, Qty = {int(modqtyentvar.get())} where
ID = {int(modidentvar.get())}'

    elif qtycheck.get() == 1:
    qr = f'update button{r+1}_{c+1} set
Qty = {int(modqtyentvar.get())} where ID = {int(modidentvar.get())}'

    if pricecheck.get() and qtycheck.get()
and itmcheck.get() == 1:
    qr = f'update button{r+1}_{c+1}
set Price = {int(modpriceentvar.get())}, Qty = {int(modqtyentvar.get())}, Item
= "{moditmentvar.get()}" where ID = {int(modidentvar.get())}'

    elif pricecheck.get() and
itmcheck.get() == 1:
    qr = f'update button{r+1}_{c+1}
set Price = {int(modpriceentvar.get())}, Item = "{moditmentvar.get()}" where
ID = {int(modidentvar.get())}'

    elif itmcheck.get() and qtycheck.get()
== 1:
    qr = f'update button{r+1}_{c+1}
set Item = "{moditmentvar.get()}", Qty = {int(modqtyentvar.get())} where ID =
{int(modidentvar.get())}'

    elif pricecheck.get() and
qtycheck.get() == 1:

```

```

qr = f'update button{r+1}_{c+1}
set Price = {int(modpriceentvar.get())}, Qty = {int(modqtyentvar.get())} where
ID = {int(modidentvar.get())}'

elif itmcheck.get() == 1:
qr = f'update button{r+1}_{c+1} set
Item = "{moditmentvar.get()}" where ID = {int(modidentvar.get())}'

if pricecheck.get() and qtycheck.get()
and itmcheck.get() == 1:
qr = f'update button{r+1}_{c+1}
set Price = {int(modpriceentvar.get())}, Qty = {int(modqtyentvar.get())}, Item
= "{moditmentvar.get()}" where ID = {int(modidentvar.get())}'

elif pricecheck.get() and
itmcheck.get() == 1:
qr = f'update button{r+1}_{c+1}
set Price = {int(modpriceentvar.get())}, Item = "{moditmentvar.get()}" where
ID = {int(modidentvar.get())}'

elif itmcheck.get() and qtycheck.get()
== 1:
qr = f'update button{r+1}_{c+1}
set Item = "{moditmentvar.get()}", Qty = {int(modqtyentvar.get())} where ID =
{int(modidentvar.get())}'

elif pricecheck.get() and
qtycheck.get() == 1:
qr = f'update button{r+1}_{c+1}
set Price = {int(modpriceentvar.get())}, Qty = {int(modqtyentvar.get())} where
ID = {int(modidentvar.get())}'

query = qr
buttoncur.execute(query)
buttoncon.commit()

self.tree.destroy()

buttoncur.execute(f'select * from button{r +
1}_{c + 1}')

vals = buttoncur.fetchall()
v1 = [('Item', 'Qty', 'Price', 'ID')] + vals

self.tree = CtkTable(shfr, column=4,
row=len(vals) + 1, values=v1)

```

```

        self.tree.grid(row=2, column=1, columnspan=3,
sticky='n', padx=20)

        subbt = ctk.CTkButton(modfr, text='Submit',
font=('Roboto Medium', 18), fg_color='#75b1a9',
                                hover_color='light green',
text_color='black',width=280, command=modifytree)
        subbt.place(x=20, y=190)

        modbtn = ctk.CTkButton(shfr, text='Modify',
font=('Roboto Medium', 24), fg_color='#75b1a9',
                                hover_color='light green',
text_color='black', command=modbt)
        modbtn.grid(row=3, column=2, padx = 10, pady=10)

        #loops for creating a table in database for each shelf
        for r in range(rowtab):

            for c in range(columns):

                buttoncur.execute('SELECT name FROM sqlite_master
WHERE type="table"')
                tbs = buttoncur.fetchall()

                button = ctk.CTkButton(gridfr, text=f"Shelf {r +
1}-{c + 1}", hover_color='light green',
                                fg_color='#75b1a9',
text_color='Black', font=('Roboto Medium', 20),
                                bg_color='#302c2c',
command=lambda r=r, c=c: frames(r, c))
                button.grid(row=r, column=c, padx=15, pady=15,
sticky='nsew')

                if (f'button{r + 1}_{c + 1}',) in tbs:
                    continue
                else:
                    q = "create table button{}_{ }(Item
varchar(30), Qty int, Price float, ID varchar(15) primary key)".format(r + 1,
c + 1)

                    buttoncur.execute(q)
                    buttoncon.commit()

        #function for searching in the shelf selected
        def search():
            buttoncur.execute('SELECT name FROM sqlite_master
WHERE type="table"')

```

```

        tables = buttoncur.fetchall()
        found = False

        for i in tables:
            q = f'select * from {i[0]}'
            buttoncur.execute(q)
            record = buttoncur.fetchall()
            for j in record:
                if j[0] == searchentvar.get():
                    butname = i[0]
                    seashelf = f'Shelf {butname[6]}-{
{butname[8]}}'

                    messagebox.showinfo('Search',
f'{searchentvar.get()} is present in {seashelf}',
                                icon='info')

                    found = True
                    break

            if not found:
                messagebox.showinfo('Search',
f'{searchentvar.get()} is not present in this shelf',
                                icon='info')
                searchent.delete(0, 'end')

        # search
        searchentvar = ctk.StringVar()
        searchent = ctk.CTkEntry(gridfr, height=50,
textvariable=searchentvar)
        searchent.grid(row=rowtab, column=0, columnspan=columns -
1, sticky='ew', padx=15, pady=15)

        searchbutton = ctk.CTkButton(gridfr, text='Search',
font=('Roboto Medium', 20),
                                hover_color='light green',
                                fg_color='#75b1a9',
text_color='Black', bg_color='#302c2c',
                                command=search)
        searchbutton.grid(row=rowtab, column=columns - 1, padx=15,
pady=15, sticky='nsew', )

        buttonGrid.mainloop()

        # to check which button was pressed, using 'id' variable
        cur.execute('select * from userprofiles')
        userval = cur.fetchall()
        global bt
        bt = []
        for j in userval:
            if j[4] == user:

```



```

        bt = []
        cur.execute('select * from userprofiles where User =
("{}").format(user))
        rows = cur.fetchall()
        ypos = 20
        if len(rows) == 0:
            pass
        else:
            rowsno = False
            noofbut = len(rows)

            for i in range(len(rows)):
                bt.append(
                    ctk.CTkButton(self, text=rows[i][1], width=700,
height=80, hover_color='light green',
                                fg_color='#75b1a9',
                                text_color='Black', font=('Roboto
Medium', 40),
                                command=lambda id=rows[i][1]:
gridmake(id, user)))
                bt[i].place(x=20, y=ypos)
                ypos = ypos + 100
            break

#function to add a shelf to the managing window
def add():
    cur.execute('select * from userprofiles')
    rows = cur.fetchall()
    if len(rows) < 4:

        top = ctk.CTkToplevel(parent)
        top.wm_transient(parent)
        top.iconbitmap(iconpath)
        top.geometry('480x360')
        top.title('Save as')

        # background
        back = ctk.CTkImage(light_image=Image.open(
            backgroundpath),
                            dark_image=Image.open(
            backgroundpath),
                            size=(1600, 800))

        label = ctk.CTkLabel(top, image=back)
        label.pack()

```

```

        topframe = ctk.CTkFrame(top, corner_radius=15,
bg_color='#75b1a9', width=420, height=300)
        topframe.place(relx=0.5, rely=0.5, anchor=tk.CENTER)

        # Name Label and entry
        namlab = ctk.CTkLabel(topframe, text='Name:', font=('Futura',
18))
        namlab.place(x=30, y=20)

        namentvar = ctk.StringVar()
        nament = ctk.CTkEntry(topframe, textvariable=namentvar,
width=240)
        nament.place(x=150, y=20)

        # row column entry and label
        # row
        rowlab = ctk.CTkLabel(topframe, text='Row:', font=('Futura',
18))
        rowlab.place(x=30, y=60)

        rowentvar = ctk.StringVar()
        rowent = ctk.CTkEntry(topframe, textvariable=rowentvar,
width=240)
        rowent.place(x=150, y=60)

        # col
        columnlab = ctk.CTkLabel(topframe, text='Column:',
font=('Futura', 18))
        columnlab.place(x=30, y=100)

        colentvar = ctk.StringVar()
        colent = ctk.CTkEntry(topframe, textvariable=colentvar,
width=240)
        colent.place(x=150, y=100)

        ypo = 20

        def profadd(ypo):
            if int(rowentvar.get()) == 1:
                messagebox.showerror('error', 'Error, must have 2 or
more rows/columns', icon='error')

                elif int(colentvar.get()) == 1:
                    messagebox.showerror('error', 'Error, must have 2 or
more rows/columns', icon='error')

                    else:

```

```

cur.execute('select * from userprofiles where User =
("{}").format(user))

rows = cur.fetchall()
if len(rows) == 0:
    ypo = 20

else:
    for i in rows:
        ypo += 100

cur.execute('select * from userprofiles')
rows = cur.fetchall()

cur.execute('insert into userprofiles values("{}",'
("{})", {}, {}, "{}").format(user+namentvar.get(),namentvar.get(),
rowentvar.get(), colentvar.get(), user))
con.commit()

tabledir = os.path.dirname(__file__)
tablepath = os.path.join(tabledir,
f'button_frame{namentvar.get()}{user}.db')
tablecon = mydb.connect(tablepath)
tablecur = tablecon.cursor()
top.destroy()

bt.append(ctk.CTkButton(self, text=namentvar.get(),
width=700, height=80, hover_color='light green',
fg_color='#75b1a9',
text_color='Black', font=('Roboto Medium', 40),
command=lambda
id=namentvar.get(): gridmake(id, user)))
bt[-1].place(x=20, y=ypo)
ypo = ypo + 100

# submit
subbuttontop = ctk.CTkButton(topframe, text='Submit',
font=('Futura', 24), fg_color='#75b1a9',
hover_color='light
green', text_color='Black', command=lambda ypo=ypo: profadd(ypo))
subbuttontop.place(x=210, y=240, anchor=tk.CENTER)

else:
    messagebox.showerror('Error', 'You have reached maximum number
of profiles', icon='error')

#function to remove a shelf from the managing window

```

```

def rembut():

    if len(bt) == 0:
        messagebox.showerror('Error', 'No profiles to remove',
icon='error')

    else:
        top = ctk.CTkToplevel(parent)
        top.wm_transient(parent)
        top.iconbitmap(iconpath)
        top.geometry('360x200')
        top.title('Remove')

        # background
        back = ctk.CTkImage(light_image=Image.open(
            backgroundpath),
            dark_image=Image.open(
                backgroundpath),
            size=(1600, 800))
        label = ctk.CTkLabel(top, image=back)
        label.pack()

        topframe = ctk.CTkFrame(top, corner_radius=15,
bg_color='#75b1a9', width=300, height=140)
        topframe.place(relx=0.5, rely=0.5, anchor=tk.CENTER)

        remlab = ctk.CTkLabel(topframe, text='Name:', font=('Futura',
18))
        remlab.place(x=30, y=20)

        def rem():
            cur.execute('select * from userprofiles')
            userval = cur.fetchall()
            for j in userval:
                if j[4] == user:
                    messagebox.askquestion('Delete', 'Are you sure you
want to delete?')

                    recrem = rementvar.get()
                    cur.execute('select * from userprofiles')
                    rows = cur.fetchall()
                    ypos = 20
                    for i in range(0, len(bt)):
                        bt[i].place_forget()

                    for i in range(0, len(bt)):
                        if bt[i].cget('text') == recrem:
                            del bt[i]
                            break

```

```

        if len(bt) == 1:
            bt[0].pack_forget()

        q = 'delete from userprofiles where ID =
"{}".format(user+recrem)

        cur.execute(q)
        con.commit()
        rement.delete(0, 'end')
        top.destroy()
        cur.execute('select * from userprofiles')
        rows = cur.fetchall()

        ypos = 20

        if len(rows) == 0:
            pass
        else:
            rowsno = False

            for i in range(len(bt)):
                bt[i].place(x=20, y=ypos)
                ypos = ypos + 100

        deltabdir = os.path.dirname(__file__)
        tables = os.listdir(deltabdir)

        if f'button_frame{recrem}{user}.db' in tables:
            deldir = os.path.dirname(__file__)
            delpath = os.path.join(deldir,
f'button_frame{recrem}{user}.db')
            os.remove(delpath)

        break

    rementvar = ctk.StringVar()
    rement = ctk.CTkEntry(topframe, textvariable=rementvar,
width=180)
    rement.place(x=100, y=20)

    rembutton = ctk.CTkButton(topframe, text='Remove',
fg_color='#75b1a9', hover_color='light green', text_color='Black',
font=('Futura', 24), command=rem)
    rembutton.place(x=150, y=100, anchor=tk.CENTER)

# add button

```

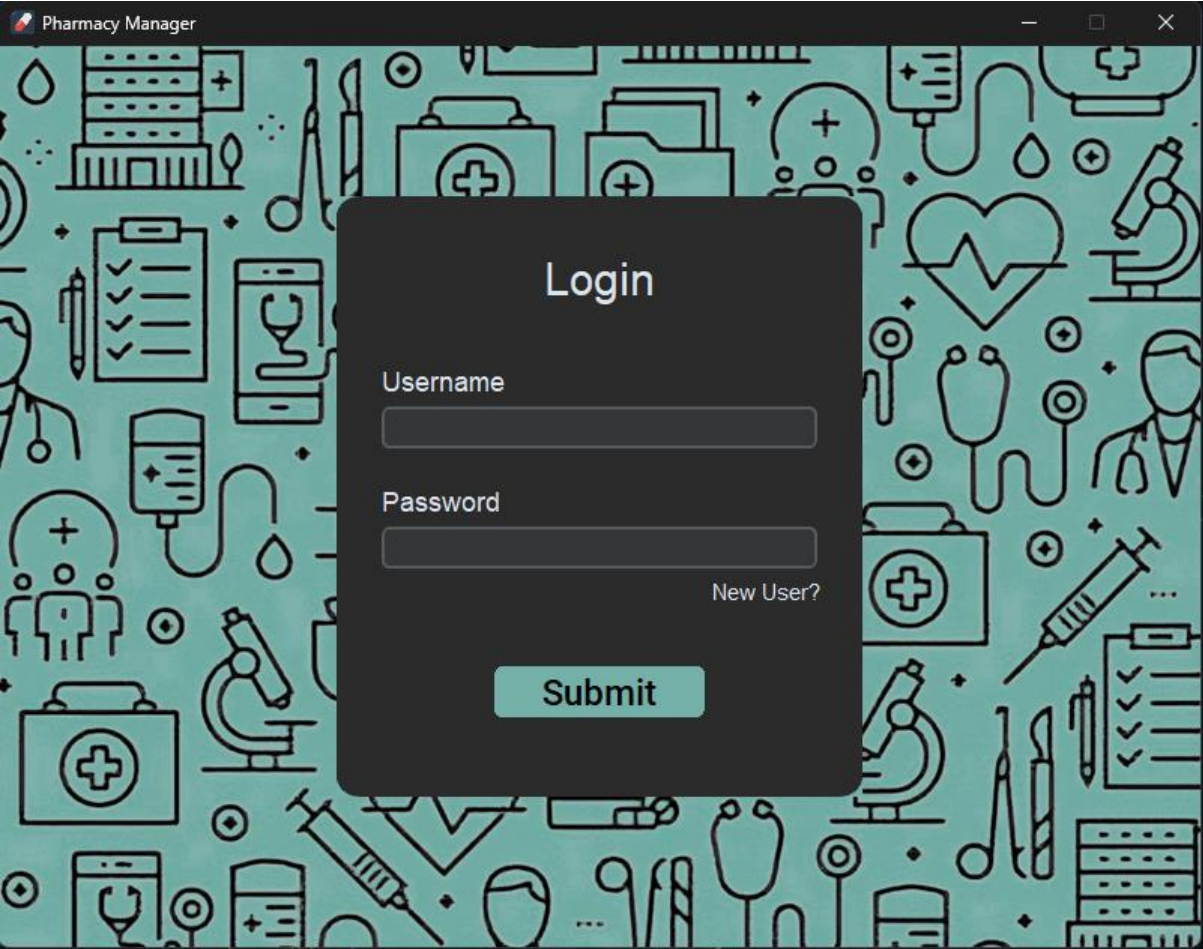
```
        addbutton = ctk.CTkButton(self, text='Add', font=('Futura', 24),
fg_color='#75b1a9', hover_color='light green', text_color='Black',
                                command=add)
        addbutton.place(x=20, y=490)

        # remove button
        rembutton = ctk.CTkButton(self, text='Remove', font=('Futura', 24),
fg_color='#75b1a9', text_color='Black',
                                hover_color='light green',
                                command=rembut)
        rembutton.place(x=580, y=490)

        self.place(relx=0.5, rely=0.5, anchor=tk.CENTER)

#to check if user signed in
if signed is True:
    manage()
```

SAMPLE OUTPUT



Pharmacy Manager

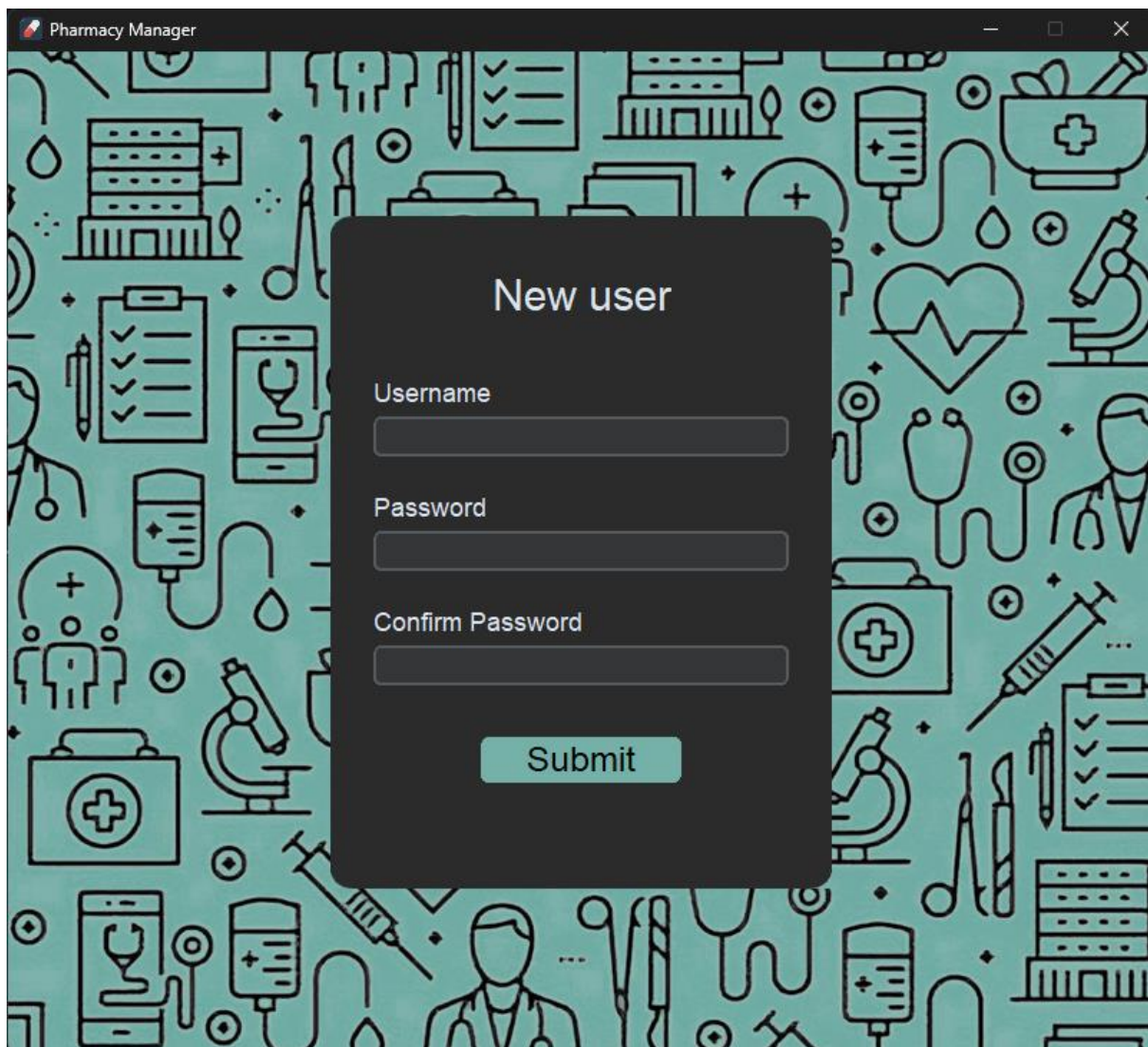
New user

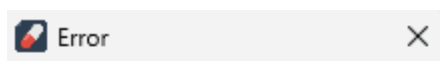
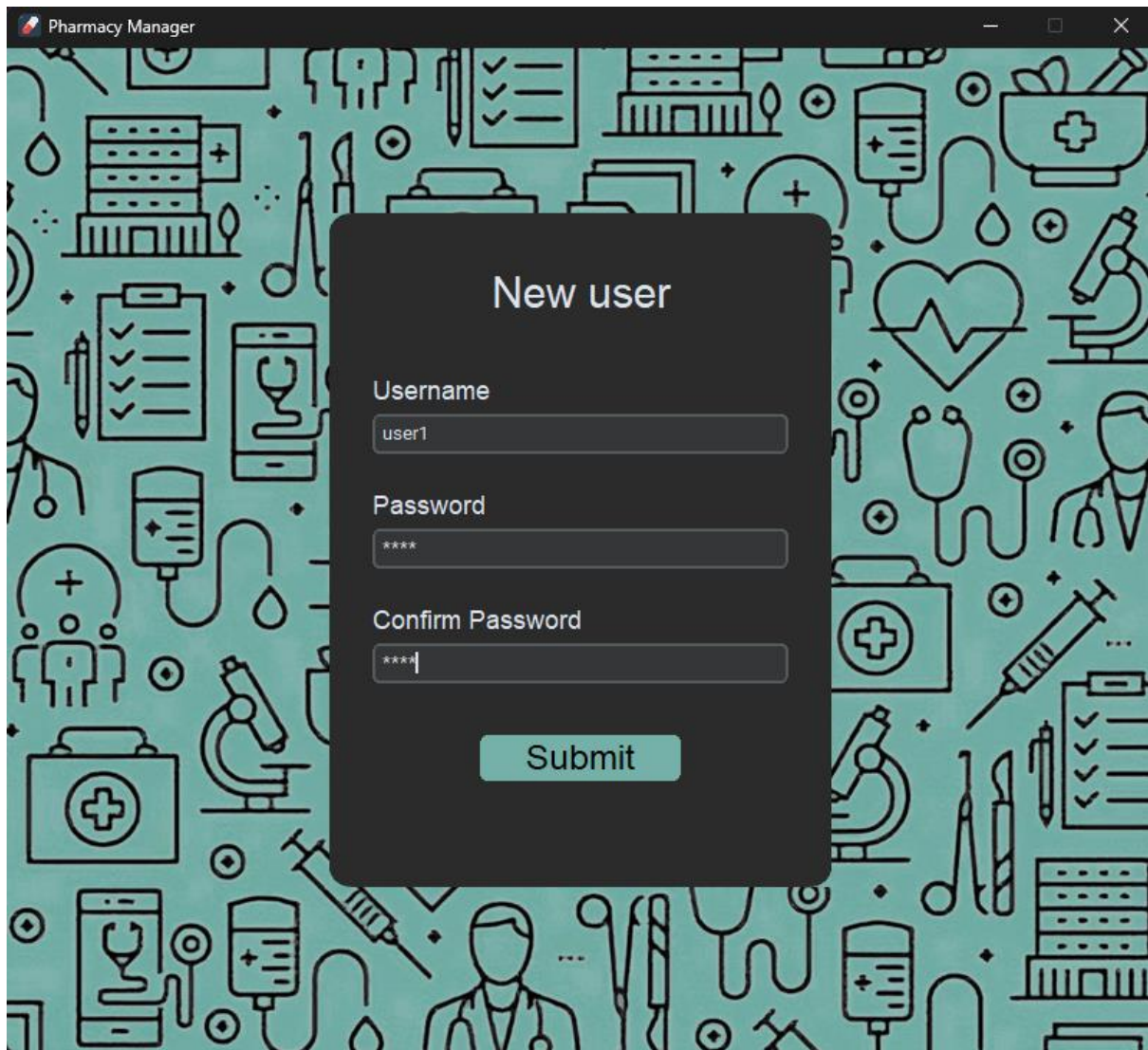
Username

Password

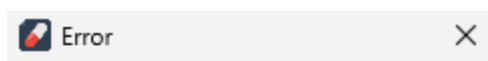
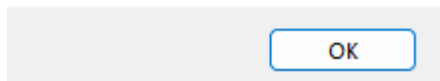
Confirm Password

Submit

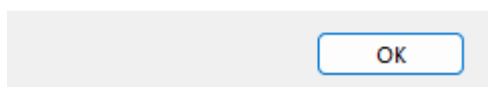


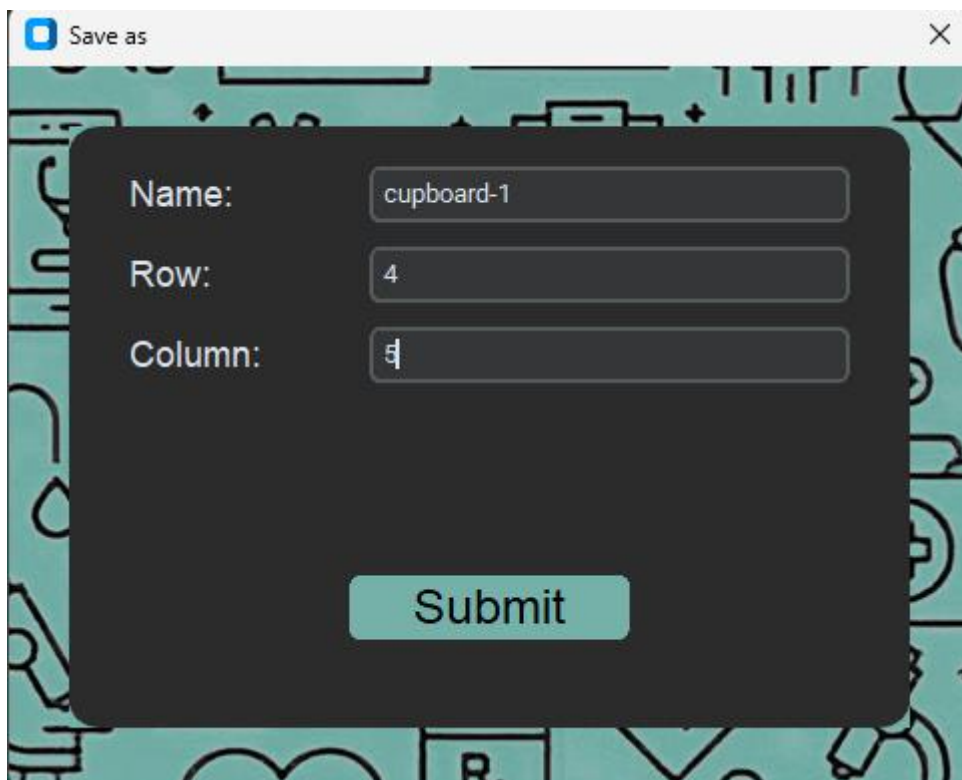
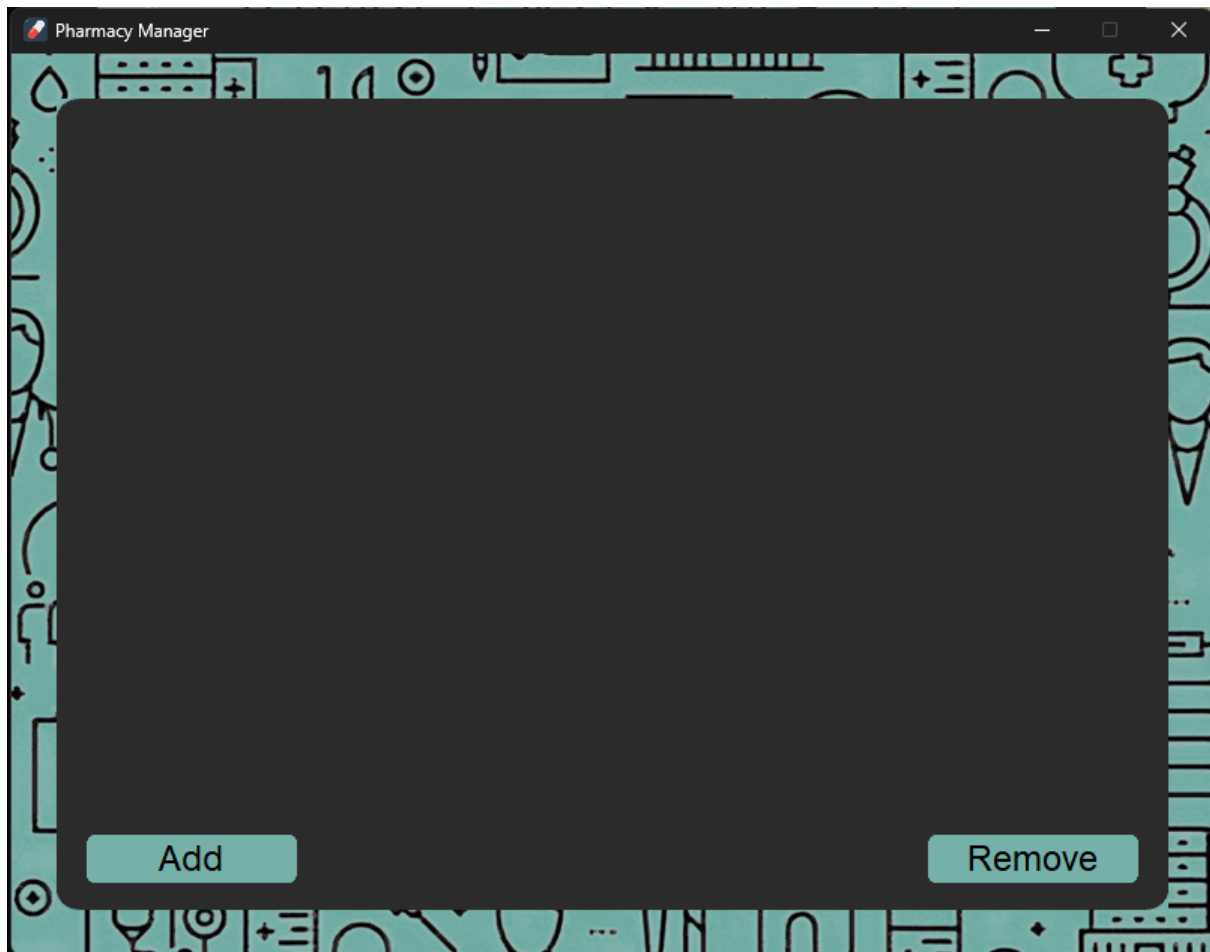


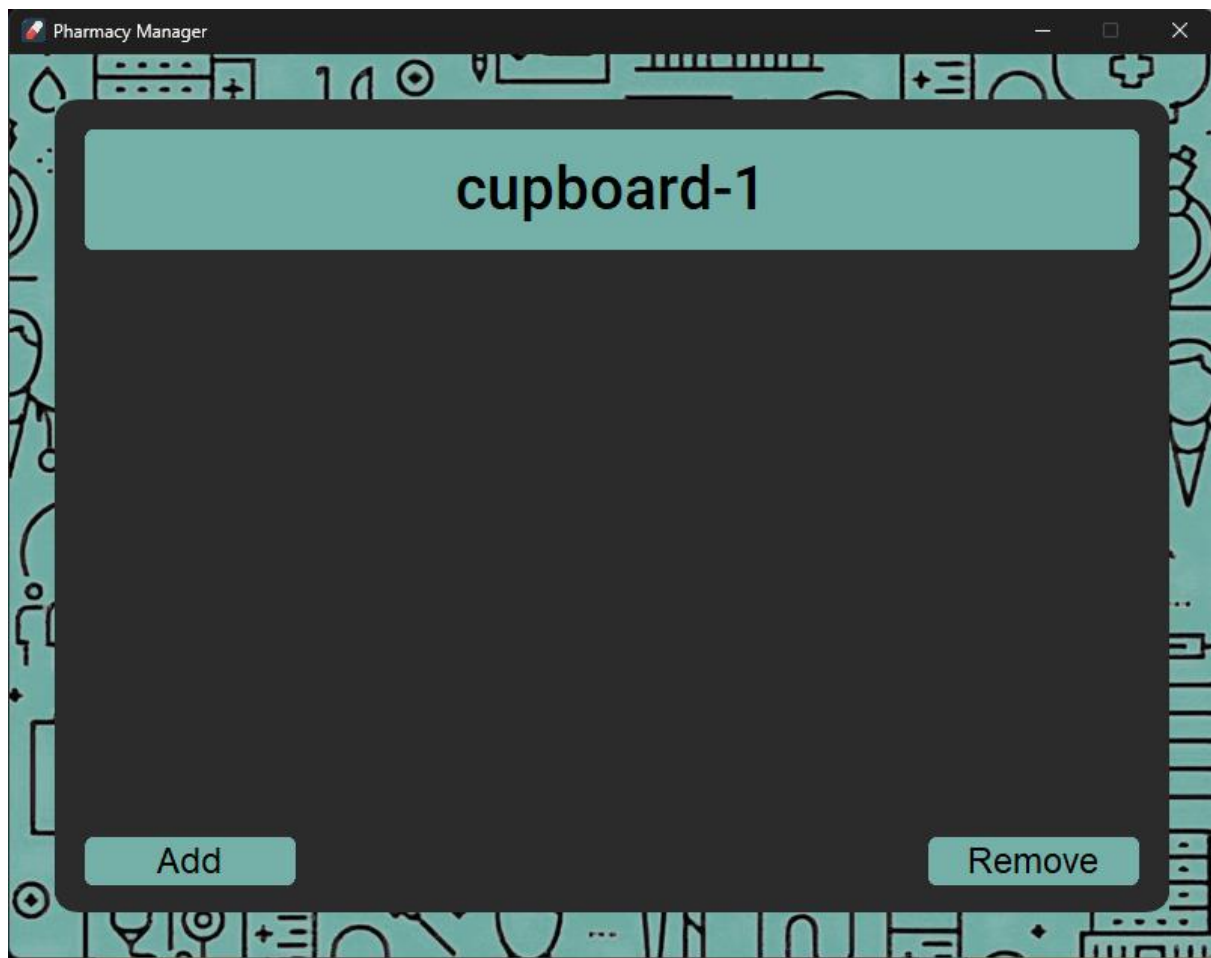
Password does not match

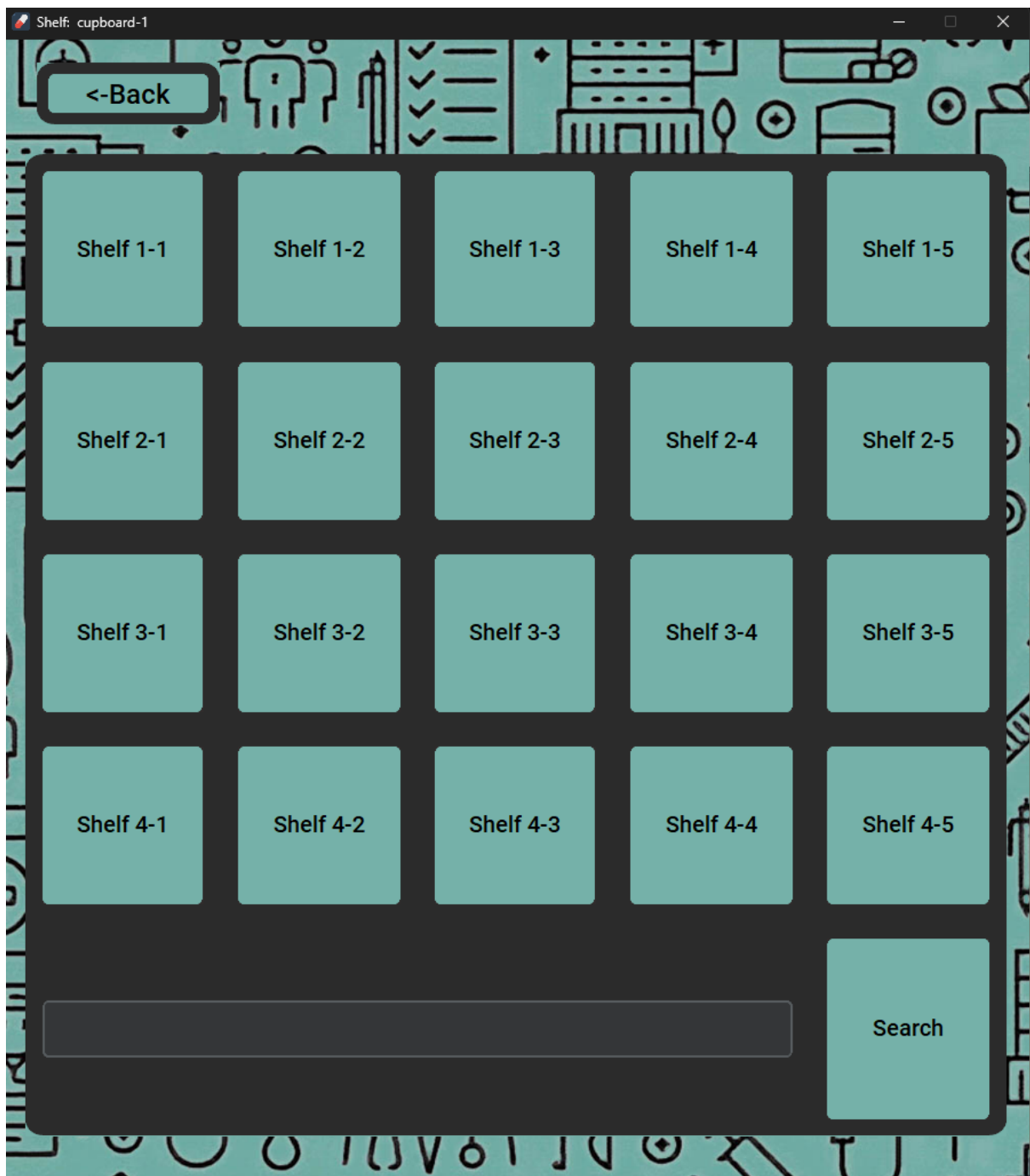


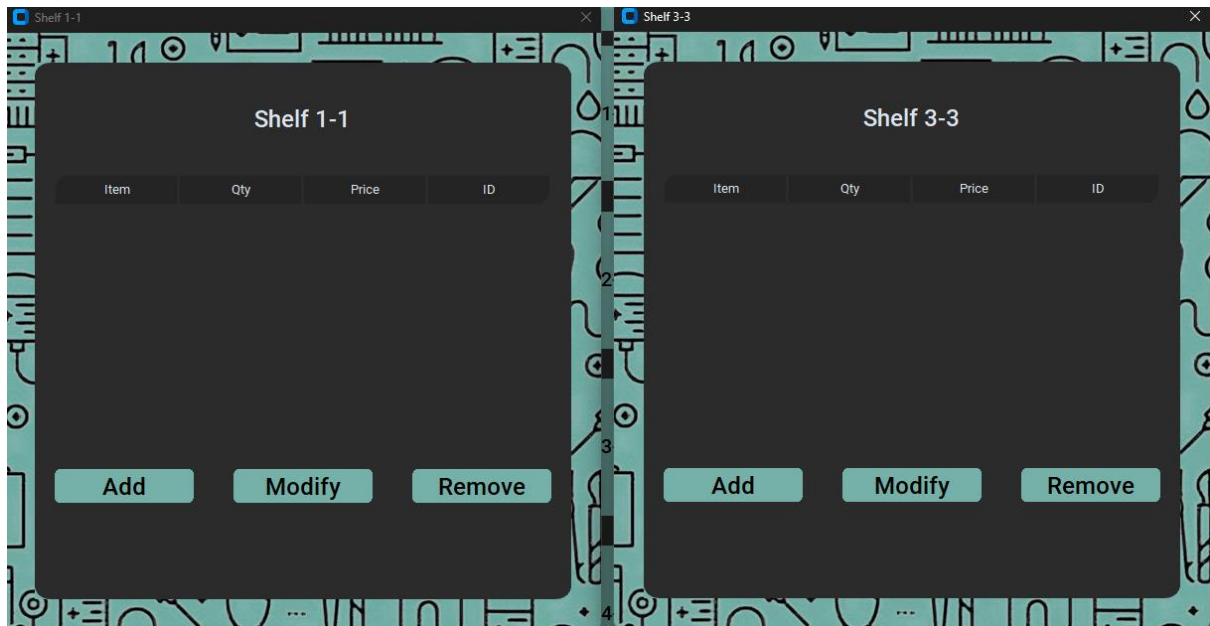
Invalid username or password



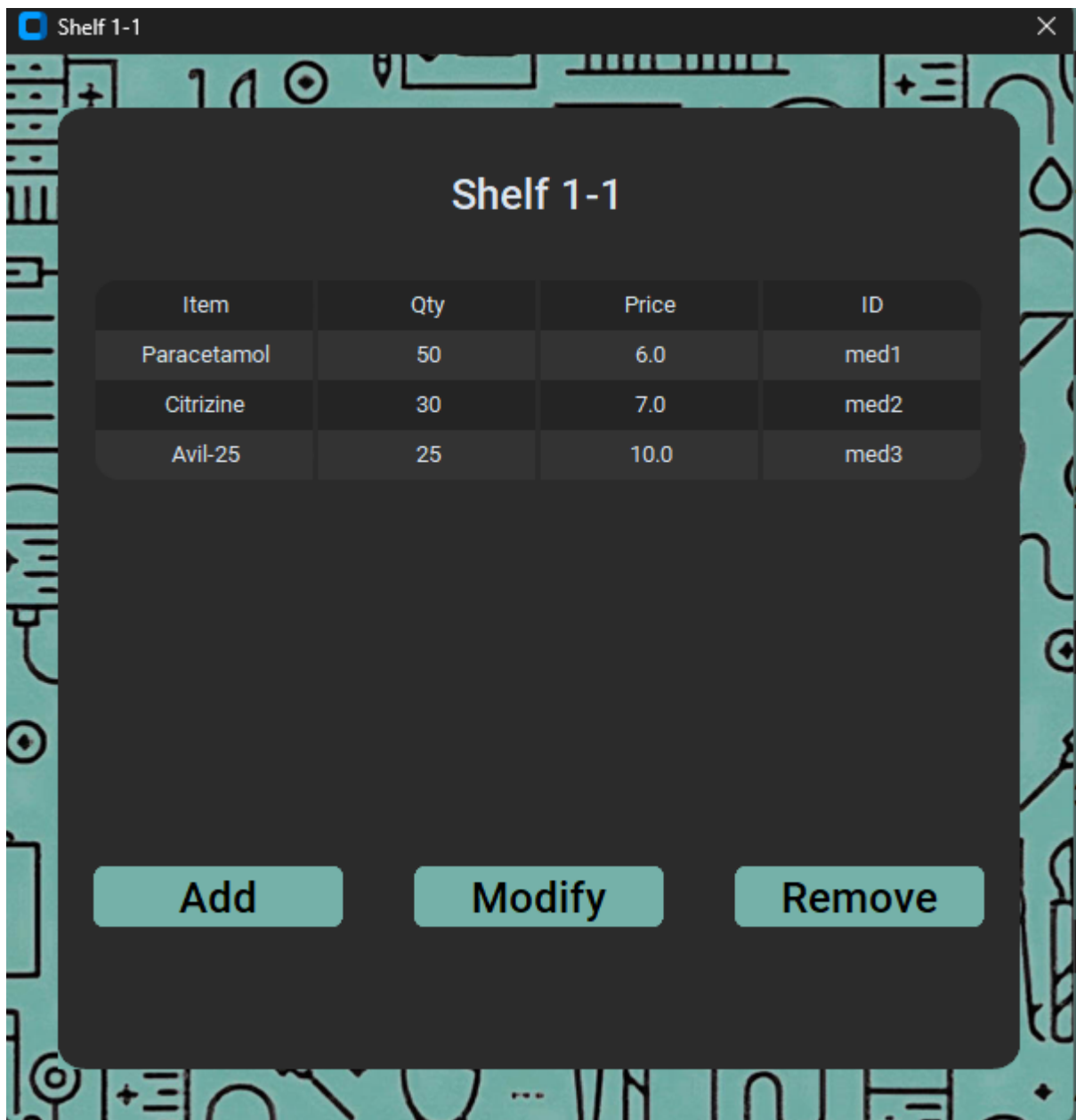








The image shows an 'Add Item' dialog box. It has a dark background with a light blue patterned border. The dialog box contains four input fields with labels: 'Item:', 'Qty:', 'Price:', and 'ID:'. The 'Item' field contains the text 'Paracetamol', the 'Qty' field contains '50', the 'Price' field contains '6', and the 'ID' field contains 'med1'. Below the input fields is a 'Submit' button.



Modify Item

ID:

med2

Item:

Avil-25

✓

Qty:

50

✓

Price:

15

✓

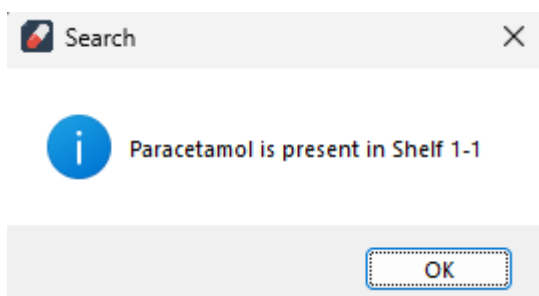
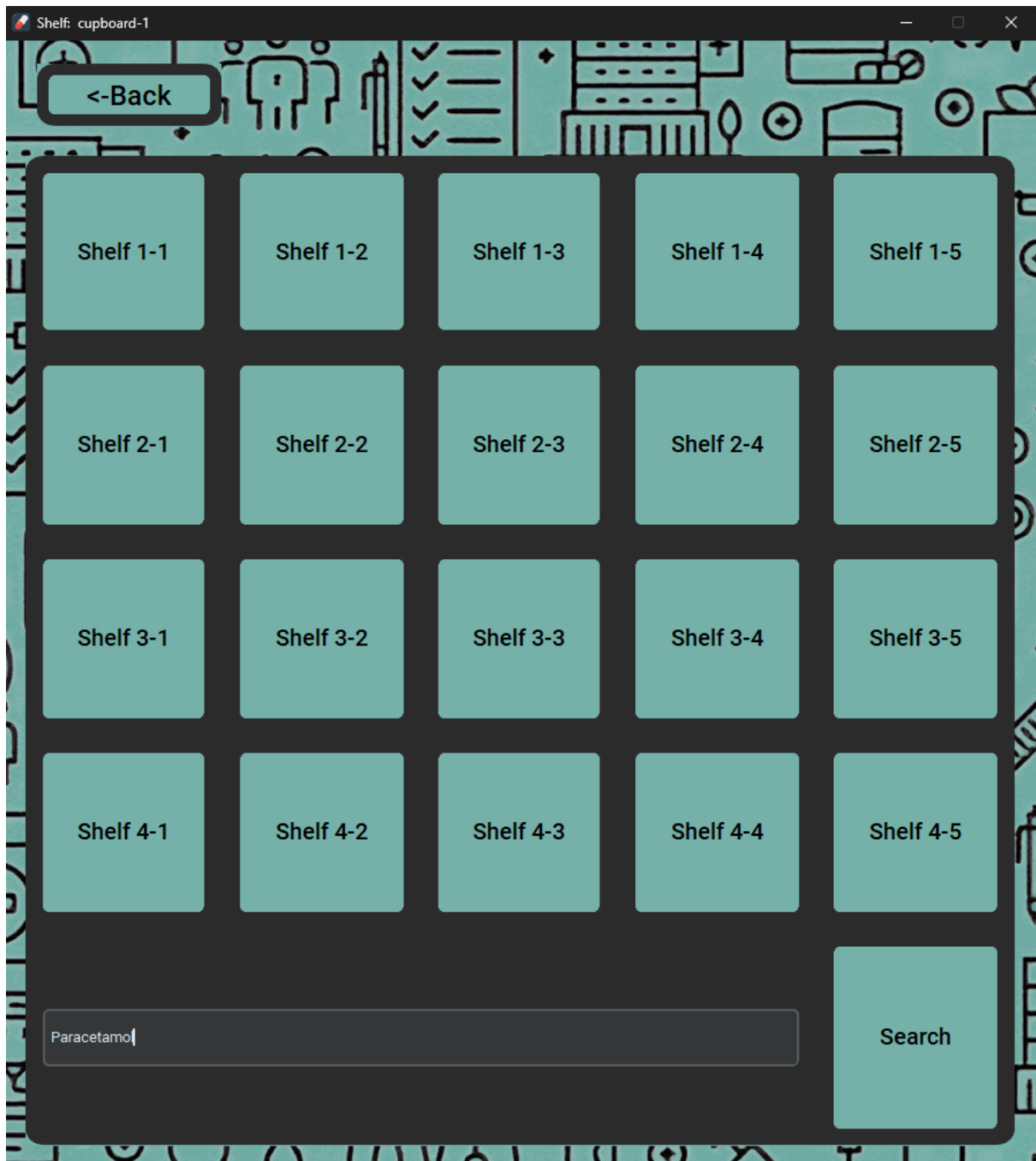
Submit

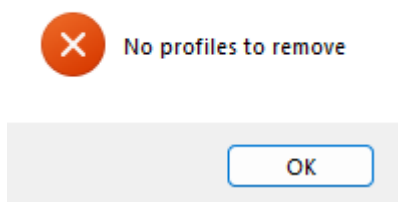
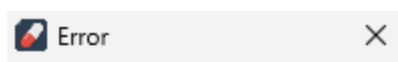
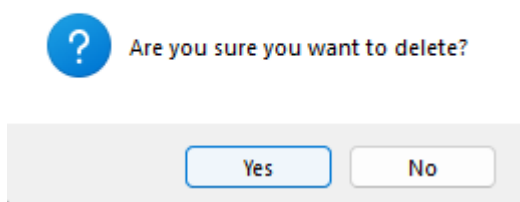
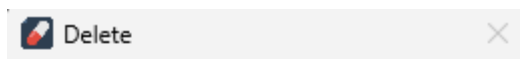
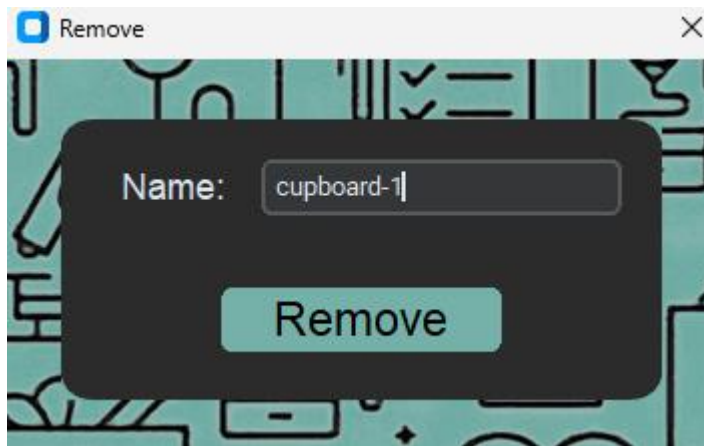
Remove Item

Name:

Avil-25

Submit





BIBLIOGRAPHY

Google

Class 12 computer science textbook

Stack overflow

Chat-GPT

CONCLUSION

We have successfully completed our Pharmacy Manger project , where we performed management(add, remove, update, search, display , etc) of the inventory of a pharmacy with the help of customtkinter as well as databases, reading and writing data using sqlite3.