Họ tên: Ngô Long Vũ

Msv: 20210563

L1: form đăng nhập

```python
from pathlib import Path
import sqlite3
from tkinter import Tk, Canvas, Entry, Text, Button, PhotoImage, messagebox

OUTPUT_PATH = Path(__file__).parent
ASSETS_PATH = OUTPUT_PATH /
Path(r"C:\Users\hello1love\PycharmProjects\pythonProject\CodePython2024\Buoi
20\build\assets\frame0")

def relative_to_assets(path: str) -> Path:
    return ASSETS_PATH / Path(path)

def connect_db():
    """Connects to the SQLite database."""
    return sqlite3.connect('BanHang.db')

def login(username, password):
    """Checks username and password against the database."""
    conn = connect_db()
    cursor = conn.cursor()
    query = "SELECT * FROM Users WHERE username = ? AND password = ?"
    cursor.execute(query, (username, password))
    result = cursor.fetchone()
    conn.close()
    return result

def attempt_login():
    """Attempts to login user using entered credentials."""
    username = entry_login.get()
    password = entry_pass.get()
    user = login(username, password)
    if user:
        messagebox.showinfo("Login Successful", "Bạn đã đăng nhập thành
công!")
    else:
        messagebox.showerror("Login Failed", "Tên đăng nhập hoặc mật khẩu
không chính xác!")

window = Tk()
window.geometry("1320x690")
window.configure(bg="#FFFFFF")

canvas = Canvas(
    window,
    bg="#FFFFFF",
    height=690,
    width=1320,
    bd=0,
    highlightthickness=0,
    relief="ridge"
)
```

```python
canvas.place(x=0, y=0)
image_image_1 = PhotoImage(file=relative_to_assets("image_1.png"))
image_1 = canvas.create_image(990.0, 345.0, image=image_image_1)

canvas.create_text(
    930.0, 250.0, anchor="nw",
    text="Xin chào!", fill="#FFFFFF",
    font=("Itim Regular", 30 * -1)
)

canvas.create_text(
    761.0, 318.0, anchor="nw",
    text="Hãy nhập thông tin cá nhân của bạn và\ntiến hành đăng nhập nhé <3",
    fill="#FFFFFF", font=("Itim Regular", 30 * -1)
)

canvas.create_text(
    213.0, 102.0, anchor="nw",
    text="Đăng nhập", fill="#000000",
    font=("Itim Regular", 40 * -1)
)

entry_image_1 = PhotoImage(file=relative_to_assets("entry_1.png"))
entry_bg_1 = canvas.create_image(300.0, 270.0, image=entry_image_1)
entry_login = Entry(
    bd=0, bg="#F0F0F0", fg="#000716", highlightthickness=0
)
entry_login.place(x=140.0, y=240.0, width=320.0, height=58.0)

entry_image_2 = PhotoImage(file=relative_to_assets("entry_2.png"))
entry_bg_2 = canvas.create_image(300.0, 390.0, image=entry_image_2)
entry_pass = Entry(
    bd=0, bg="#F0F0F0", fg="#000716", highlightthickness=0, show="*"
)
entry_pass.place(x=140.0, y=360.0, width=320.0, height=58.0)

button_image_2 = PhotoImage(file=relative_to_assets("button_2.png"))
button_login = Button(
    image=button_image_2, borderwidth=0, highlightthickness=0,
    command=attempt_login, relief="flat"
)
button_login.place(x=178.0, y=480.0, width=240.0, height=60.0)

canvas.create_text(
    357.0, 431.0, anchor="nw",
    text="Quên mật khẩu", fill="#229EE4",
    font=("Itim Regular", 20 * -1)
)

canvas.create_text(
    88.0, 198.0, anchor="nw",
    text="Tài khoản :", fill="#000000",
    font=("Itim Regular", 30 * -1)
)

canvas.create_text(
```
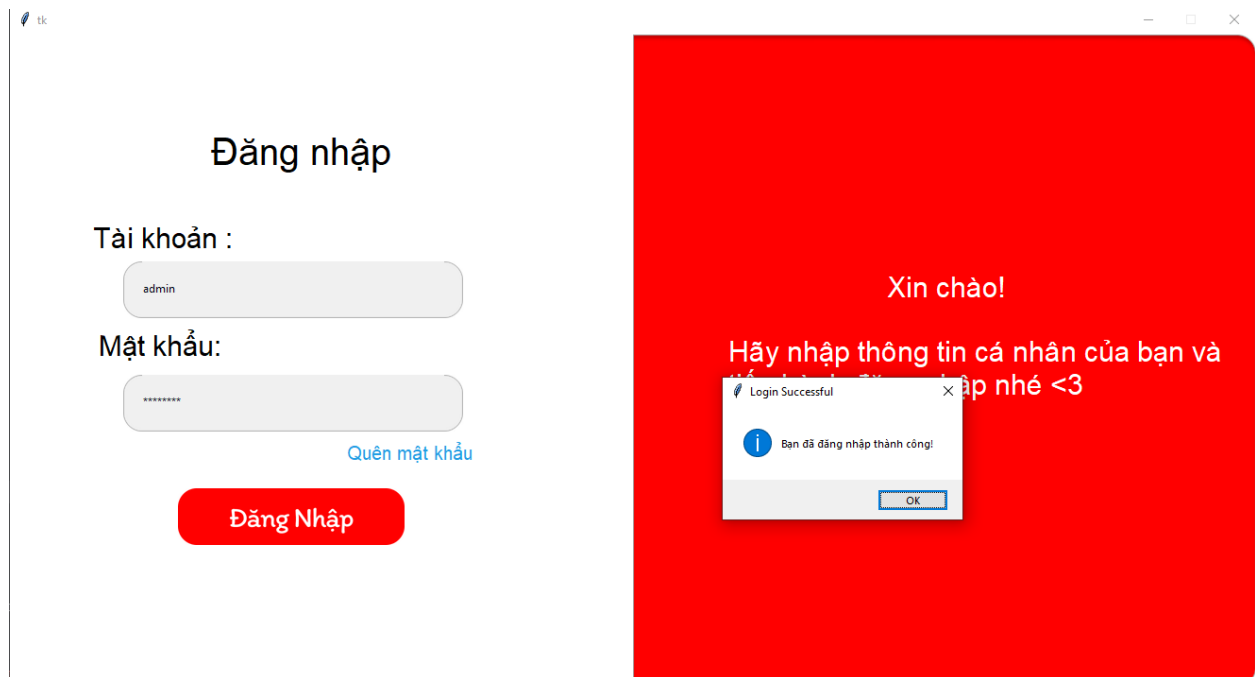
```
        94.0, 312.0, anchor="nw",
        text="Mật khẩu:", fill="#000000",
        font=("Itim Regular", 30 * -1)
)

window.resizable(False, False)
window.mainloop()
```

Kết quả:

Quản lý khách:

```python
# This file was generated by the Tkinter Designer by Parth Jadhav
# https://github.com/ParthJadhav/Tkinter-Designer


from pathlib import Path

# from tkinter import *
# Explicit imports to satisfy Flake8
from tkinter import Tk, Canvas, Entry, Text, Button, PhotoImage


OUTPUT_PATH = Path(__file__).parent
ASSETS_PATH = OUTPUT_PATH /
Path(r"C:\Users\hello1love\PycharmProjects\pythonProject\CodePython2024\Buoi
20\build1\assets\frame0")


def relative_to_assets(path: str) -> Path:
    return ASSETS_PATH / Path(path)


window = Tk()

window.geometry("1440x1024")
window.configure(bg = "#F9F9F9")

import sqlite3

def connect_db():
    """ Kết nối với cơ sở dữ liệu SQLite. """
    return sqlite3.connect('BanHang.db')

def add_customer():
    """ Thêm một khách hàng vào cơ sở dữ liệu. """
    conn = connect_db()
    cursor = conn.cursor()
    cursor.execute("INSERT INTO Customers (customer_id, name, phone, email,
address) VALUES (?, ?, ?, ?, ?)",
                   (entry_ma_khach.get(), entry_ten_khach.get(),
entry_so_dien_thoai.get(), entry_mail.get(), entry_dia_chi.get()))
    conn.commit()
    conn.close()

def update_customer():
    """ Cập nhật thông tin của một khách hàng trong cơ sở dữ liệu. """
    conn = connect_db()
    cursor = conn.cursor()
    cursor.execute("UPDATE customers SET name=?, phone=?, email=?, address=?
WHERE customer_id=?",
                   (entry_ten_khach.get(), entry_so_dien_thoai.get(),
entry_mail.get(), entry_dia_chi.get(), entry_ma_khach.get()))
    conn.commit()
    conn.close()
```

```python
def delete_customer():
    """ Xóa một khách hàng khỏi cơ sở dữ liệu. """
    conn = connect_db()
    cursor = conn.cursor()
    cursor.execute("DELETE FROM customers WHERE customer_id=?",
(entry_ma_khach.get(),))
    conn.commit()
    conn.close()

def search_customer():
    """ Tìm kiếm một khách hàng trong cơ sở dữ liệu. """
    conn = connect_db()
    cursor = conn.cursor()
    cursor.execute("SELECT * FROM customers WHERE customer_id=?",
(entry_tim_kiem.get(),))
    result = cursor.fetchone()
    conn.close()
    return result  # Kết quả này cần được hiển thị trên giao diện một cách
thích hợp


canvas = Canvas(
    window,
    bg = "#F9F9F9",
    height = 1024,
    width = 1440,
    bd = 0,
    highlightthickness = 0,
    relief = "ridge"
)

canvas.place(x = 0, y = 0)
image_image_1 = PhotoImage(
    file=relative_to_assets("image_1.png"))
image_1 = canvas.create_image(
    156.0,
    512.0,
    image=image_image_1
)

canvas.create_text(
    115.0,
    938.0,
    anchor="nw",
    text="Ngô Long Vũ",
    fill="#000000",
    font=("Itim Regular", 20 * -1)
)

canvas.create_text(
    112.0,
    962.0,
    anchor="nw",
    text="20210463@eaut.edu.vn",
    fill="#000000",
    font=("Itim Regular", 15 * -1)
)
```

```python
canvas.create_rectangle(
    348.0,
    132.9999999944157,
    1372.0000019036233,
    136.0,
    fill="#D0C8C8",
    outline="")

canvas.create_rectangle(
    13.0,
    134.9718323162731,
    301.99981672200374,
    138.0,
    fill="#D0C8C8",
    outline="")

canvas.create_rectangle(
    12.996337890625,
    510.0140380859375,
    302.0032958984375,
    511.0140380859375,
    fill="#D0C8C8",
    outline="")

canvas.create_rectangle(
    348.0,
    552.0,
    1372.0,
    553.0,
    fill="#D0C8C8",
    outline="")

canvas.create_rectangle(
    13.0,
    916.0,
    302.0069580078125,
    917.0,
    fill="#D0C8C8",
    outline="")

canvas.create_text(
    37.0,
    27.0,
    anchor="nw",
    text="Quản Lý Bán Hàng",
    fill="#000000",
    font=("Itim Regular", 20)  # Positive font size
)

button_image_1 = PhotoImage(
    file=relative_to_assets("button_1.png"))
button_in_bao_cao = Button(
    image=button_image_1,
    borderwidth=0,
    highlightthickness=0,
    command=lambda: print("button_1 clicked"),
```

```python
    relief="flat"
)
button_in_bao_cao.place(
    x=1295.0,
    y=104.0,
    width=77.0,
    height=24.0
)

button_image_2 = PhotoImage(
    file=relative_to_assets("button_2.png"))
button_quan_ly_kh = Button(
    image=button_image_2,
    borderwidth=0,
    highlightthickness=0,
    command=lambda: print("button_2 clicked"),
    relief="flat"
)
button_quan_ly_kh.place(
    x=47.0,
    y=264.0,
    width=217.0,
    height=41.0
)

button_image_3 = PhotoImage(
    file=relative_to_assets("button_3.png"))
button_xuat_baoc = Button(
    image=button_image_3,
    borderwidth=0,
    highlightthickness=0,
    command=lambda: print("button_3 clicked"),
    relief="flat"
)
button_xuat_baoc.place(
    x=47.0,
    y=374.0,
    width=217.0,
    height=41.0
)

button_image_4 = PhotoImage(
    file=relative_to_assets("button_4.png"))
button_4 = Button(
    image=button_image_4,
    borderwidth=0,
    highlightthickness=0,
    command=lambda: print("button_4 clicked"),
    relief="flat"
)
button_4.place(
    x=47.0,
    y=209.0,
    width=217.0,
    height=41.0
)
```

```python
button_image_5 = PhotoImage(
    file=relative_to_assets("button_5.png"))
button_5 = Button(
    image=button_image_5,
    borderwidth=0,
    highlightthickness=0,
    command=lambda: print("button_5 clicked"),
    relief="flat"
)
button_5.place(
    x=47.0,
    y=319.0,
    width=217.0,
    height=41.0
)

image_image_2 = PhotoImage(
    file=relative_to_assets("image_2.png"))
image_2 = canvas.create_image(
    57.0,
    961.0,
    image=image_image_2
)

canvas.create_rectangle(
    349.0,
    159.0,
    1088.0,
    520.0,
    fill="#FFFFFF",
    outline="")

image_image_3 = PhotoImage(
    file=relative_to_assets("image_3.png"))
image_3 = canvas.create_image(
    718.0,
    339.0,
    image=image_image_3
)

canvas.create_text(
    801.0,
    180.0,
    anchor="nw",
    text="Địa Chỉ",
    fill="#000000",
    font=("TimesNewRomanPSMT", 15 * -1)
)

canvas.create_text(
    395.0,
    365.0,
    anchor="nw",
    text="Email",
    fill="#000000",
    font=("TimesNewRomanPSMT", 15 * -1)
)
```

```python
image_image_4 = PhotoImage(
    file=relative_to_assets("image_4.png"))
image_4 = canvas.create_image(
    1244.0,
    339.0,
    image=image_image_4
)

entry_image_1 = PhotoImage(
    file=relative_to_assets("entry_1.png"))
entry_bg_1 = canvas.create_image(
    652.5,
    185.5,
    image=entry_image_1
)
entry_ma_khach = Entry(
    bd=0,
    bg="#F0F0F0",
    fg="#000716",
    highlightthickness=0
)
entry_ma_khach.place(
    x=563.5,
    y=166.0,
    width=178.0,
    height=37.0
)

entry_image_2 = PhotoImage(
    file=relative_to_assets("entry_2.png"))
entry_bg_2 = canvas.create_image(
    652.5,
    254.5,
    image=entry_image_2
)
entry_ten_khach = Entry(
    bd=0,
    bg="#F0F0F0",
    fg="#000716",
    highlightthickness=0
)
entry_ten_khach.place(
    x=563.5,
    y=235.0,
    width=178.0,
    height=37.0
)

entry_image_3 = PhotoImage(
    file=relative_to_assets("entry_3.png"))
entry_bg_3 = canvas.create_image(
    1244.5,
    254.5,
    image=entry_image_3
)
entry_tim_kiem = Entry(
```

```python
    bd=0,
    bg="#F0F0F0",
    fg="#000716",
    highlightthickness=0
)
entry_tim_kiem.place(
    x=1155.5,
    y=235.0,
    width=178.0,
    height=37.0
)

canvas.create_text(
    1136.0,
    189.0,
    anchor="nw",
    text="Tìm kiếm",
    fill="#000000",
    font=("TimesNewRomanPSMT", 15 * -1)
)

entry_image_4 = PhotoImage(
    file=relative_to_assets("entry_4.png"))
entry_bg_4 = canvas.create_image(
    652.5,
    324.5,
    image=entry_image_4
)
entry_so_dien_thoai = Entry(
    bd=0,
    bg="#F0F0F0",
    fg="#000716",
    highlightthickness=0
)
entry_so_dien_thoai.place(
    x=563.5,
    y=305.0,
    width=178.0,
    height=37.0
)

entry_image_5 = PhotoImage(
    file=relative_to_assets("entry_5.png"))
entry_bg_5 = canvas.create_image(
    652.5,
    382.5,
    image=entry_image_5
)
entry_mail = Entry(
    bd=0,
    bg="#F0F0F0",
    fg="#000716",
    highlightthickness=0
)
entry_mail.place(
    x=563.5,
    y=363.0,
```

```python
    width=178.0,
    height=37.0
)

entry_image_6 = PhotoImage(
    file=relative_to_assets("entry_6.png"))
entry_bg_6 = canvas.create_image(
    968.5,
    185.5,
    image=entry_image_6
)
entry_dia_chi = Entry(
    bd=0,
    bg="#F0F0F0",
    fg="#000716",
    highlightthickness=0
)
entry_dia_chi.place(
    x=879.5,
    y=166.0,
    width=178.0,
    height=37.0
)

button_image_6 = PhotoImage(
    file=relative_to_assets("button_6.png"))
button_them = Button(
    image=button_image_6,
    borderwidth=0,
    highlightthickness=0,
    command=add_customer,
    relief="flat"
)
button_them.place(x=476.0, y=426.0, width=114.0, height=38.0)

button_image_7 = PhotoImage(
    file=relative_to_assets("button_7.png"))
button_sua = Button(
    image=button_image_7,
    borderwidth=0,
    highlightthickness=0,
    command=update_customer,
    relief="flat"
)
button_sua.place(x=670.0, y=426.0, width=114.0, height=38.0)

button_image_8 = PhotoImage(
    file=relative_to_assets("button_8.png"))
button_xoa = Button(
    image=button_image_8,
    borderwidth=0,
    highlightthickness=0,
    command=delete_customer,
    relief="flat"
)
button_xoa.place(x=845.0, y=422.0, width=114.0, height=38.0)
```

```python
button_image_9 = PhotoImage(
    file=relative_to_assets("button_9.png"))
button_tim_kiem = Button(
    image=button_image_9,
    borderwidth=0,
    highlightthickness=0,
    command=lambda: print(search_customer()),  # Bạn có thể muốn xử lý điều
này khác để hiển thị kết quả trên giao diện
    relief="flat"
)
button_tim_kiem.place(x=1193.0, y=426.0, width=114.0, height=38.0)

canvas.create_text(
    387.0,
    184.0,
    anchor="nw",
    text="Mã Khách",
    fill="#000000",
    font=("TimesNewRomanPSMT", 15 * -1)
)

canvas.create_text(
    387.0,
    247.0,
    anchor="nw",
    text="Tên Khách",
    fill="#000000",
    font=("TimesNewRomanPSMT", 15 * -1)
)

canvas.create_text(
    387.0,
    314.0,
    anchor="nw",
    text="Số Điện Thoại",
    fill="#000000",
    font=("TimesNewRomanPSMT", 15 * -1)
)
window.resizable(False, False)
window.mainloop()
```

Quản Lý Bán Hàng

In Báo Cáo

Quản lý sản phẩm

Quản lý khách hàng

Quản lý đơn hàng

Xuất báo cáo

Mã Khách	3
Tên Khách	Lê Văn C
Số Điện Thoại	0912345678
Email	vanc@example.com

Địa Chỉ: Đà Nẵng

Tìm kiếm

Thêm   Sửa   Xóa

Tìm kiếm

Ngô Long Vũ
20210463@eaut.edu.vn

DB Browser for SQLite - C:\Users\hello1love\PycharmProjects\pythonProject\CodePython2024\Buoi 20\build\BanHang.db

File Edit View Tools Help

New Database   Open Database   Write Changes   Revert Changes   Open Project   Save Project   Attach Database   Close Database

Database Structure | Browse Data | Edit Pragmas | Execute SQL

Table: Customers

Filter in any column

	customer_id	name	phone	email	address
	Filter	Filter	Filter	Filter	Filter
1	1	Nguyễn Văn A	0123456789	vana@example.com	Hà Nội
2	2	Trần Thị B	0987654321	thib@example.com	TP HCM
3	3	Lê Văn C	0912345678	vanc@example.com	Đà Nẵng

Edit Database Cell

Mode: Text

1 Đà Nẵng

Type of data currently in cell: Text / Numeric
7 character(s)

Apply

Remote

Identity Select an identity to connect

DBHub.io | Local | Current Database

Name	Last modified

Snip sav
Select h