from tkinter import \*

from PIL import Image, ImageTk

from tkinter import ttk, messagebox

import sqlite3

class employeeClass:

    def \_\_init\_\_(self, root):

        self.root = root

        self.root.geometry("1100x500+220+130")

        self.root.title("Inventory Management System")  # Set a window title

        self.root.config(bg="white")

        self.root.focus\_force()

        #====================

        ######  All Variable ######

        self.var\_searchby=StringVar()

        self.var\_searchtxt=StringVar()

        self.var\_emp\_id=StringVar()

        self.var\_gender=StringVar()

        self.var\_contact=StringVar()

        self.var\_name=StringVar()

        self.var\_dob=StringVar()

        self.var\_doj=StringVar()

        self.var\_email=StringVar()

        self.var\_pass=StringVar()

        self.var\_utype=StringVar()

        self.var\_salary=StringVar()

        ########### Search Frame ########

        Searchframe = LabelFrame(self.root,text="Search Employee",bg="white", font=("goudy old style", 12, "bold"),bd=2,relief=RIDGE,)

        Searchframe.place(x=250, y=20, height=70, width=600)

        #######  Options ####

        cmd\_search = ttk.Combobox(Searchframe,textvariable=self.var\_searchby,values=("Select","Email","Name","Contact"),state='readonly',justify=CENTER, font=("goudy old style", 15))

        cmd\_search .place(x=10,y=10, width=180)

        cmd\_search.current(0)

        Txt\_search =Entry(Searchframe, textvariable=self.var\_searchtxt,font=("goudy old style",15), bg="lightyellow").place(x=200,y=10)

        Txt\_search= Button(Searchframe,text="Search", font=("goudy old style",15),bg="gray",fg="white",cursor="hand2").place(x=410,y=9, width=150,height=30)

        ####### Title ####

        title = Label(self.root,text="Employee Details",font=("goudy old style",15),bg="#0f4d7d",fg="white",cursor="hand2").place(x=50,y=100, width=1000)

        ############ Page Content #####

        ######## Row 1

        lbl\_empid = Label(self.root,text="Emp ID",font=("goudy old style",15),bg="lightyellow").place(x=50,y=150)

        lbl\_gender = Label(self.root,text="Gender",font=("goudy old style",15),bg="white").place(x=350,y=150)

        lbl\_contact = Label(self.root,text="Contact",font=("goudy old style",15),bg="white").place(x=750,y=150)

        txt\_empid = Entry(self.root,textvariable=self.var\_emp\_id,font=("goudy old style",15),bg="lightyellow").place(x=150,y=150,width=180)

        cmd\_gender = ttk.Combobox(self.root,textvariable=self.var\_gender,values=("Select","Male","Female","Other"),state='readonly',justify=CENTER, font=("goudy old style", 15))

        cmd\_gender .place(x=500,y=150, width=180)

        cmd\_gender.current(0)

        txt\_contact = Entry(self.root,textvariable=self.var\_contact,font=("goudy old style",15),bg="white").place(x=850,y=150,width=180)

        ######## Row 2

        lbl\_name = Label(self.root,text="Name",font=("goudy old style",15),bg="white").place(x=50,y=190)

        lbl\_dob = Label(self.root,text="D.O.B",font=("goudy old style",15),bg="white").place(x=350,y=190)

        lbl\_doj = Label(self.root,text="D.O.J",font=("goudy old style",15),bg="white").place(x=750,y=190)

        txt\_name = Entry(self.root,textvariable=self.var\_name,font=("goudy old style",15),bg="lightyellow").place(x=150,y=190,width=180)

        txt\_dob = Entry(self.root,textvariable=self.var\_dob,font=("goudy old style",15),bg="lightyellow").place(x=500,y=190,width=180)

        txt\_doj = Entry(self.root,textvariable=self.var\_doj,font=("goudy old style",15),bg="lightyellow").place(x=850,y=190,width=180)

        ######## Row 3

        lbl\_email = Label(self.root,text="Email",font=("goudy old style",15),bg="white").place(x=50,y=230)

        lbl\_pass = Label(self.root,text="Passward",font=("goudy old style",15),bg="white").place(x=350,y=230)

        lbl\_utype= Label(self.root,text="User Type",font=("goudy old style",15),bg="white").place(x=750,y=230)

        txt\_email = Entry(self.root,textvariable=self.var\_email,font=("goudy old style",15),bg="lightyellow").place(x=150,y=230,width=180)

        txt\_pass= Entry(self.root,textvariable=self.var\_pass,font=("goudy old style",15),bg="lightyellow").place(x=500,y=230,width=180)

        txt\_utype= Entry(self.root,textvariable=self.var\_utype,font=("goudy old style",15),bg="lightyellow").place(x=850,y=230,width=180)

        cmd\_utype = ttk.Combobox(self.root,textvariable=self.var\_utype,values=("Admin","Employee"),state='readonly',justify=CENTER, font=("goudy old style", 15))

        cmd\_utype .place(x=850,y=230, width=180)

        cmd\_utype.current(0)

        ######## Row 4

        lbl\_address = Label(self.root,text="Address",font=("goudy old style",15),bg="white").place(x=50,y=270)

        lbl\_salary = Label(self.root,text="Salary",font=("goudy old style",15),bg="white").place(x=500,y=270)

        self.txt\_address = Text(self.root,font=("goudy old style",15),bg="lightyellow")

        self.txt\_address.place(x=150,y=270,width=300,height=60)

        txt\_salary = Entry(self.root,textvariable=self.var\_salary,font=("goudy old style",15),bg="lightyellow").place(x=600,y=270,width=180)

        ######## Button

        btn\_add= Button(self.root,text="Save", font=("goudy old style",15),bg="gray",fg="white",cursor="hand2").place(x=500,y=305, width=110,height=28)

        btn\_update= Button(self.root,text="Update", font=("goudy old style",15),bg="Lightblue",fg="white",cursor="hand2").place(x=620,y=305, width=110,height=28)

        btn\_delete= Button(self.root,text="Delete", font=("goudy old style",15),bg="Green",fg="white",cursor="hand2").place(x=740,y=305, width=110,height=28)

        btn\_clear= Button(self.root,text="Clear", font=("goudy old style",15),bg="red",fg="white",cursor="hand2").place(x=860,y=305, width=110,height=28)

        ######## Employee Info

        emp\_frame= Frame(self.root,bd=3,relief=RIDGE)

        emp\_frame.place(x=0,y=350,relwidth=1,height=150)

        scrolly=Scrollbar(emp\_frame,orient=VERTICAL)

        scrollx=Scrollbar(emp\_frame,orient=HORIZONTAL)

        self.EmployeeTable=ttk.Treeview(emp\_frame,columns=("eid","name","email","gender","contact","dob","doj","pass","utype","address","salary"),

        yscrollcommand=scrolly.set, xscrollcommand=scrollx.set)

        scrollx.pack(side=BOTTOM,fill=X)

        scrolly.pack(side=RIGHT,fill=Y)

        scrollx.config(command=self.EmployeeTable.xview)

        scrolly.config(command=self.EmployeeTable.yview)

        self.EmployeeTable.heading("eid",text="EMP ID")

        self.EmployeeTable.heading("name",text="Name")

        self.EmployeeTable.heading("email",text="Email")

        self.EmployeeTable.heading("gender",text="gender")

        self.EmployeeTable.heading("contact",text="Contact")

        self.EmployeeTable.heading("dob",text="D.O.B")

        self.EmployeeTable.heading("doj",text="D.O.J")

        self.EmployeeTable.heading("pass",text="Passward")

        self.EmployeeTable.heading("utype",text="User Type")

        self.EmployeeTable.heading("address",text="Address")

        self.EmployeeTable.heading("salary",text="Salary")

        self.EmployeeTable["show"]="headings"

        self.EmployeeTable.column("eid",width=90)

        self.EmployeeTable.column("name",width=100)

        self.EmployeeTable.column("email",width=100)

        self.EmployeeTable.column("gender",width=100)

        self.EmployeeTable.column("contact",width=100)

        self.EmployeeTable.column("dob",width=100)

        self.EmployeeTable.column("doj",width=100)

        self.EmployeeTable.column("pass",width=100)

        self.EmployeeTable.column("utype",width=100)

        self.EmployeeTable.column("address",width=100)

        self.EmployeeTable.column("salary",width=100)

        self.EmployeeTable.pack(fill= BOTH,expand=1)

#====================================================================================

    def add(self):

        con=sqlite3.connect(database=r'ims.db')

        cur=con.cursor()

        try:

            if self.var\_emp\_id.get()=="":

                messagebox.showerror("Error", "Employee ID must be required",parent=self.root)

            else:

                cur.execute("Select \* from employee where eid=?",(self.var\_emp\_id.get(),))

                row=cur.fetchone()

                if row!= None:

                    messagebox.showerror("Error","This Employee ID already assigned, try different",parent=self.root)

                else:

                    cur.execute("Insert INTO employee(eid,name,email,gender,contact,dob,doj,pass,utype,address,salary) values(?,?,?,?,?,?,?,?,?,?,?)",(

                        self.var\_emp\_id.get(),

                        self.var\_name.get(),

                        self.var\_email.get(),

                        self.var\_gender.get(),

                        self.var\_contact.get(),

                        self.var\_dob.get(),

                        self.var\_doj.get(),

                        self.var\_pass.get(),

                        self.var\_utype.get(),

                        self.txt\_address.get('1.0',END),

                        self.var\_salary.get()

                    ))

                    con.commit()

                    messagebox.showinfo("Success","Employee Addedd successfully",parent=self.root)

        except Exception as ex:

            messagebox.showerror("Error",f"Error due to :{str(ex)}",parent=self.root)

if \_\_name\_\_ == "\_\_main\_\_":

    root = Tk()

    obj = employeeClass(root)

    root.mainloop()