Source Code Of RMS Project

Result.py

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from tkinter import*
from PIL import Image,ImageTk  #pip install pillow
from tkinter import ttk,messagebox
import sqlite3
class resultClass:
    def __init__(self,root):
        self.root=root
        self.root.title("Student Result Management System")
        self.root.geometry("1200x480+80+170")
        self.root.config(bg="white")
        self.root.focus_force()
        #=====title======
        title=Label(self.root,text="Add Student Result",font=("goudy old
style",20,"bold"),bg="orange",fg="#262626").place(x=10,y=15,width=1180,height=50)
        #======widgets==========
        #========variables===============
        self.var_roll=StringVar()
        self.var_name=StringVar()
        self.var_course=StringVar()
        self.var_marks=StringVar()
        self.var_full_marks=StringVar()
        self.roll_list=[]
        self.fetch_roll()


        lbl_select=Label(self.root,text="Select Student", font=("goudy old
style",20,"bold"),bg="white").place(x=50,y=100)
        lbl_name=Label(self.root,text="Name", font=("goudy old
style",20,"bold"),bg="white").place(x=50,y=160)
        lbl_course=Label(self.root,text="Course", font=("goudy old
style",20,"bold"),bg="white").place(x=50,y=220)
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        lbl_marks_ob=Label(self.root,text="Marks Obtained", font=("goudy old
style",20,"bold"),bg="white").place(x=50,y=280)

        lbl_full_marks=Label(self.root,text="Full Marks", font=("goudy old
style",20,"bold"),bg="white").place(x=50,y=340)


        self.txt_student=ttk.Combobox(self.root,textvariable=self.var_roll,values=self.roll_list,
font=("goudy old style",15,'bold'),state='readonly',justify=CENTER)

        self.txt_student.place(x=280,y=100,width=200)

        self.txt_student.set("Select")

        btn_search=Button(self.root,text='Search',font=("goudy old
style",15,"bold"),bg="#03a9f4",fg="white",cursor="hand2",command=self.search).place(x=500,
y=100,width=100,height=28)


        txt_name=Entry(self.root,textvariable=self.var_name, font=("goudy old
style",20,'bold'),bg='lightyellow',state='readonly').place(x=280,y=160,width=320)

        txt_course=Entry(self.root,textvariable=self.var_course, font=("goudy old
style",20,'bold'),bg='lightyellow',state='readonly').place(x=280,y=220,width=320)

        txt_marks=Entry(self.root,textvariable=self.var_marks, font=("goudy old
style",20,'bold'),bg='lightyellow').place(x=280,y=280,width=320)

        txt_full_marks=Entry(self.root,textvariable=self.var_full_marks, font=("goudy old
style",20,'bold'),bg='lightyellow').place(x=280,y=340,width=320)


        #===========button============

        btn_add=Button(self.root,text="Submit",font=("times new
roman",15),bg="lightgreen",activebackground="lightgreen",cursor="hand2",command=self.ad
d).place(x=300,y=420,width=120,height=35)

        btn_clear=Button(self.root,text="Clear",font=("times new
roman",15),bg="lightgray",activebackground="lightgray",cursor="hand2",command=self.clear)
.place(x=430,y=420,width=120,height=35)


        #==========image==============

        self.bg_img=Image.open("images/result.jpg")

        self.bg_img=self.bg_img.resize((500,350),Image.ANTIALIAS)

        self.bg_img=ImageTk.PhotoImage(self.bg_img)


        self.lbl_bg=Label(self.root,image=self.bg_img).place(x=650,y=100)
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#=========================================================================
def fetch_roll(self):
    con=sqlite3.connect(database="rms.db")
    cur=con.cursor()
    try:
        cur.execute("select roll from student")
        rows=cur.fetchall()
        if len(rows)>0:
            for row in rows:
                self.roll_list.append(row[0])
    except Exception as ex:
        messagebox.showerror("Error",f"Error due to {str(ex)}")

def search(self):
    con=sqlite3.connect(database="rms.db")
    cur=con.cursor()
    try:
        cur.execute(f"select name,course from student where roll=?",(self.var_roll.get(),))
        row=cur.fetchone()
        if row!=None:
            self.var_name.set(row[0])
            self.var_course.set(row[1])
        else:
            messagebox.showerror("Error","No record found",parent=self.root)


    except Exception as ex:
        messagebox.showerror("Error",f"Error due to {str(ex)}")

def add(self):
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        con=sqlite3.connect(database="rms.db")
        cur=con.cursor()
        try:
            if self.var_name.get()=="":
                messagebox.showerror("Error","please first search student
record",parent=self.root)
            else:
                cur.execute("select * from result where roll=? and
course=?",(self.var_roll.get(),self.var_course.get(),))
                row=cur.fetchone()
                print(row)
                if row!=None:
                    messagebox.showerror("Error","Result already avilable",parent=self.root)
                else:
                    per=(int(self.var_marks.get())*100)/int(self.var_full_marks.get())
                    cur.execute("insert into result(roll,name,course,marks_ob,full_marks,per)
values(?,?,?,?,?,?)",(
                        self.var_roll.get(),
                        self.var_name.get(),
                        self.var_course.get(),
                        self.var_marks.get(),
                        self.var_full_marks.get(),
                        str(per)
                    ))
                    con.commit()
                    messagebox.showinfo("Success","Result Added Successfully",parent=self.root)
        except Exception as ex:
            messagebox.showerror("Error",f"Error due to {str(ex)}")


    def clear(self):
        self.var_roll.set("Select"),
        self.var_name.set(""),
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        self.var_course.set(""),
        self.var_marks.set(""),
        self.var_full_marks.set(""),



if __name__=="__main__":
    root=Tk()
    obj=resultClass(root)
    root.mainloop()
```