

PACKAGES TO BE INSTALLED IN PYTHON INTERPRETER TO RUN THE CODE:

PACKAGE	VERSION
Pillow	8.0.0
PyMySQL	0.10.1
numpy	1.19.4
opencv-contrib-python	4.4.0.46
pandas	1.1.4
pip	20.2.4
python-dateutil	2.8.1
pytz	2020.4
setuptools	50.3.2
six	1.15.0

CODE :

```
from tkinter import *
from tkinter import ttk
import pymysql
from tkinter import messagebox
from PIL import ImageTk, Image
class Student:
    def __init__(self, root):
        self.root = root
        self.root.title("Scholar Stewardship Application")
        self.root.geometry("1350x700+0+0")
        self.root.configure(bg="AntiqueWhite1")

        title = Label(self.root, text="Scholar Stewardship Application", bd=10, relief=GROOVE, font=("times
new roman", 40, "bold"), bg="navy", fg="White")
        title.pack(side=TOP, fill=X)
```

```
#-----
```

```
Manage_Frame=Frame(self.root,bd=4,relief=RIDGE,bg="crimson")
```

```
Manage_Frame.place(x=20,y=100,width=450,height=580)
```

```
m_title=Label(Manage_Frame,text="Administrate Student  
Details",bg="crimson",fg="white",font=("times new roman",25,"bold"))
```

```
m_title.grid(row=0,columnspan=2,pady=10)
```

```
self.Roll_No_var=StringVar()
```

```
self.name_var = StringVar()
```

```
self.email_var = StringVar()
```

```
self.gender_var = StringVar()
```

```
self.contact_var = StringVar()
```

```
self.dob_var = StringVar()
```

```
self.address_var = StringVar()
```

```
self.search_by=StringVar()
```

```
self.search_txt=StringVar()
```

```
lbl_roll = Label(Manage_Frame,text="Roll number",bg="crimson",fg="white",font=("times new  
roman",20,"bold"))
```

```
lbl_roll.grid(row=1,column=0,pady=10,padx=20,sticky="w")
```

```
txt_roll=Entry(Manage_Frame,textvariable=self.Roll_No_var,font=("times new roman",15,  
"bold"),bd=5,relief=GROOVE)
```

```
txt_roll.grid(row=1,column=1,pady=10,padx=20,sticky="w")
```

```
lbl_name = Label(Manage_Frame, text="Name", bg="crimson", fg="white", font=("times new  
roman", 20, "bold"))
```

```
lbl_name.grid(row=2, column=0, pady=10, padx=20, sticky="w")
```

```
txt_name = Entry(Manage_Frame,textvariable=self.name_var, font=("times new roman", 15,  
"bold"), bd=5, relief=GROOVE)
```

```
txt_name.grid(row=2, column=1, pady=10, padx=20, sticky="w")
```

```
lbl_email = Label(Manage_Frame, text="Email", bg="crimson", fg="white", font=("times new roman", 20, "bold"))
```

```
lbl_email.grid(row=3, column=0, pady=10, padx=20, sticky="w")
```

```
txt_email = Entry(Manage_Frame, textvariable=self.email_var, font=("times new roman", 15, "bold"), bd=5, relief=GROOVE)
```

```
txt_email.grid(row=3, column=1, pady=10, padx=20, sticky="w")
```

```
lbl_gender = Label(Manage_Frame, text="Gender", bg="crimson", fg="white", font=("times new roman", 20, "bold"))
```

```
lbl_gender.grid(row=4, column=0, pady=10, padx=20, sticky="w")
```

```
combo_gender = ttk.Combobox(Manage_Frame, textvariable=self.gender_var, font=("times new roman", 14))
```

```
combo_gender['values'] = ("Male", "Female", "Other")
```

```
combo_gender.grid(row=4, column=1, padx=20, pady=10)
```

```
lbl_contact = Label(Manage_Frame, text="Contact", bg="crimson", fg="white", font=("times new roman", 20, "bold"))
```

```
lbl_contact.grid(row=5, column=0, pady=10, padx=20, sticky="w")
```

```
txt_contact = Entry(Manage_Frame, textvariable=self.contact_var, font=("times new roman", 15, "bold"), bd=5, relief=GROOVE)
```

```
txt_contact.grid(row=5, column=1, pady=10, padx=20, sticky="w")
```

```
lbl_dob = Label(Manage_Frame, text="DOB", bg="crimson", fg="white", font=("times new roman", 20, "bold"))
```

```
lbl_dob.grid(row=6, column=0, pady=10, padx=20, sticky="w")
```

```
txt_dob = Entry(Manage_Frame, textvariable=self.dob_var, font=("times new roman", 15, "bold"), bd=5, relief=GROOVE)
```

```
txt_dob.grid(row=6, column=1, pady=10, padx=20, sticky="w")
```

```
lbl_address = Label(Manage_Frame, text="Address", bg="crimson", fg="white", font=("times new roman", 20, "bold"))
```

```
lbl_address.grid(row=7, column=0, pady=10, padx=20, sticky="w")
```

```
self.txt_address = Text(Manage_Frame, width=30, height=4, font=("", 10))
```

```
self.txt_address.grid(row=7, column=1, pady=10, padx=20, sticky="w")
```

```

#_____

btn_Frame = Frame(Manage_Frame, bd=4, relief=RIDGE, bg="crimson")
btn_Frame.place(x=15, y=500, width=420)

Addbtn = Button(btn_Frame, text="Add", width=10, command=self.add_students).grid(row=0,
column=0, padx=10, pady=10)
updatebtn = Button(btn_Frame, text="Update",
width=10, command=self.update_data).grid(row=0, column=1, padx=10, pady=10)
deletebtn = Button(btn_Frame, text="Delete", width=10, command=self.delete_data).grid(row=0,
column=2, padx=10, pady=10)
Clearbtn = Button(btn_Frame, text="Clear", width=10, command=self.clear).grid(row=0,
column=3, padx=10, pady=10)

#-----

Detail_Frame = Frame(self.root, bd=4, relief=RIDGE, bg="green3")
Detail_Frame.place(x=500, y=100, width=800, height=560)

lbl_Search = Label(Detail_Frame, text="Search", bg="green3", fg="white", font=("times new
roman", 20, "bold"))
lbl_Search.grid(row=0, column=0, pady=10, padx=20, sticky="w")

combo_search = ttk.Combobox(Detail_Frame, width=10, textvariable=self.search_by,
font=("times new roman", 13, "bold"), state='readonly')
combo_search['values'] = ("Roll_No", "Name", "Contact")
combo_search.grid(row=0, column=1, padx=20, pady=10)

txt_search = Entry(Detail_Frame, width=20, textvariable=self.search_txt, font=("times new
roman", 10, "bold"), bd=5, relief=GROOVE)
txt_search.grid(row=0, column=2, pady=10, padx=20, sticky="w")

searchbtn = Button(Detail_Frame, text="Search",
width=10, pady=5, command=self.search_data).grid(row=0, column=3, padx=10, pady=10)
showallbtn = Button(Detail_Frame, text="Showall",
width=10, pady=5, command=self.fetch_data).grid(row=0, column=4, padx=10, pady=10)

#_____

```

```
Table_Frame=Frame(Detail_Frame,bd=4,relief=RIDGE,bg="grey1")
Table_Frame.place(x=10,y=70,width=760,height=480)
```

```
scroll_x=Scrollbar(Table_Frame,orient=HORIZONTAL)
scroll_y = Scrollbar(Table_Frame, orient=VERTICAL)
```

```
self.Student_table=ttk.Treeview(Table_Frame,columns=("roll","name","email","gender","contact","dob","address"),xscrollcommand=scroll_x.set,yscrollcommand=scroll_y.set)
```

```
scroll_x.pack(side=BOTTOM,fill=X)
scroll_y.pack(side=RIGHT,fill=Y)
scroll_x.config(command=self.Student_table.xview)
scroll_y.config(command=self.Student_table.yview)
self.Student_table.heading("roll",text="Roll No.")
self.Student_table.heading("name",text="Name")
self.Student_table.heading("email", text="Email")
self.Student_table.heading("gender", text="Gender")
self.Student_table.heading("contact", text="Conatct")
self.Student_table.heading("dob", text="DOB")
self.Student_table.heading("address", text="Address")
```

```
self.Student_table['show']='headings'
self.Student_table.column("roll",width=100)
self.Student_table.column("name", width=100)
self.Student_table.column("email", width=100)
self.Student_table.column("gender", width=100)
self.Student_table.column("contact", width=100)
self.Student_table.column("dob", width=100)
self.Student_table.column("address", width=150)
```

```
self.Student_table.pack(fill=BOTH,expand=1)
self.Student_table.bind("<ButtonRelease-1>",self.get_cursor)
self.fetch_data()
```

```
def add_students(self):
```

```
    if self.Roll_No_var.get()==" or self.name_var.get()==":
```

```
        messagebox.showerror("Eroor", "All fields are required!!!")
```

```
    else:
```

```
        con = pymysql.connect(host="localhost", user="root", password="", database="stm")
```

```
        cur = con.cursor()
```

```

cur.execute("insert into students values(%s,%s,%s,%s,%s,%s,%s,%s)", (self.Roll_No_var.get(),
                                                                    self.name_var.get(),
                                                                    self.email_var.get(),
                                                                    self.gender_var.get(),
                                                                    self.contact_var.get(),
                                                                    self.dob_var.get(),
                                                                    self.txt_address.get('1.0', END)
                                                                    ))

con.commit()
self.fetch_data()
self.clear()
con.close()
messagebox.showinfo("Sucess", "Record has been inserted")

```

```

def fetch_data(self):
    con = pymysql.connect(host="localhost", user="root", password="", database="stm")
    cur = con.cursor()
    cur.execute("select * from students")
    rows=cur.fetchall()
    if len(rows)!=0:
        self.Student_table.delete(*self.Student_table.get_children())
        for row in rows:
            self.Student_table.insert("",END,values=row)
        con.commit()
    con.close()

```

```

def clear(self):
    self.Roll_No_var.set("")
    self.name_var.set("")
    self.email_var.set("")
    self.gender_var.set("")
    self.contact_var.set("")
    self.dob_var.set("")
    self.txt_address.delete("1.0",END)

```

```

def get_cursor(self,ev):
    cursor_row=self.Student_table.focus()

```

```

contents=self.Student_table.item(cursor_row)
row=contents['values']
self.Roll_No_var.set(row[0])
self.name_var.set(row[1])
self.email_var.set(row[2])
self.gender_var.set(row[3])
self.contact_var.set(row[4])
self.dob_var.set(row[5])
self.txt_address.delete("1.0", END)
self.txt_address.insert(END,row[6])

```

def update_data(self):

```

con = pymysql.connect(host="localhost", user="root", password="", database="stm")
cur = con.cursor()
cur.execute("update students set
name=%s,email=%s,gender=%s,contact=%s,dob=%s,address=%s where roll_no=%s", (
self.name_var.get(),
self.email_var.get(),
self.gender_var.get(),
self.contact_var.get(),
self.dob_var.get(),
self.txt_address.get('1.0', END),
self.Roll_No_var.get()
))

con.commit()
self.fetch_data()
self.clear()
con.close()

```

def delete_data(self):

```

con = pymysql.connect(host="localhost", user="root", password="", database="stm")
cur = con.cursor()
cur.execute("delete from students where roll_no=%s",self.Roll_No_var.get())
con.commit()
con.close()
self.fetch_data()
self.clear()

```

def search_data(self):

```
con = pymysql.connect(host="localhost", user="root", password="", database="stm")
cur = con.cursor()
cur.execute("select * from students where " + str(self.search_by.get()) + " LIKE
'" + str(self.search_txt.get()) + "%")
rows=cur.fetchall()
if len(rows)!=0:
    self.Student_table.delete(*self.Student_table.get_children())
    for row in rows:
        self.Student_table.insert("",END,values=row)
    con.commit()
con.close()
```

```
root=Tk()
ob=Student(root)
root.mainloop()
```