import tkinter as tk

from tkinter import ttk

from tkinter import messagebox

import pymysql

class hostel():

def \_\_init\_\_(self,root):

self.root = root

self.root.title("Hostel Accommodation")

self.width = self.root.winfo\_screenwidth()

self.height=self.root.winfo\_screenheight()

self.root.geometry(f"{self.width}x{self.height}+0+0")

titleLbl=tk.Label(self.root, text="Hostel Accommodation System", bg="brown",fg="white",bd=4,relief="groove",font=("Arial",40,"bold"))

titleLbl.pack(side="top",fill="x")

#global variables

self.room=4

self.bed=4

#input frame

inFrame=tk.Frame(self.root,bg="light green", bd=4, relief="ridge")

inFrame.place(width=self.width/3,height=self.height-180,x=100,y=100)

rnLbl = tk.Label(inFrame,bg="light green",font=("Arial",15), text="RollNo:")

rnLbl.grid(row=0,column=0,padx=5,pady=5)

self.rnIn=tk.Entry(inFrame,bd=2,width=20,font=("Arial",15,"bold"))

self.rnIn.grid(row=0,column=1,padx=20,pady=40)

nameLbl=tk.Label(inFrame,bg="light green",font=("Arial",15), text="Name:")

nameLbl.grid(row=1,column=0,padx=5,pady=5)

self.nameIn = tk.Entry(inFrame,bd=2,width=20,font=("Arial",15,"bold"))

self.nameIn.grid(row=1,column=1,padx=5,pady=5)

classLbl=tk.Label(inFrame,bg="light green",font=("Arial",15), text="Class")

classLbl.grid(row=2,column=0, padx=20,pady=30)

self.classIn = tk.Entry(inFrame,bd=2,width=20,font=("Arial",15,"bold"))

self.classIn.grid(row=2,column=1,padx=5,pady=5)

fnameLbl = tk.Label(inFrame,bg="light green",font=("Arial",15),text="Father:")

fnameLbl.grid(row=3,column=0,padx=5,pady=5)

self.fnameIn=tk.Entry(inFrame,bd=2,width=20,font=("Arial",15,"bold"))

self.fnameIn.grid(row=3,column=1,padx=5,pady=5)

okBtn = tk.Button(inFrame, command=self.reserveFun,bd=3,relief="raised",text="OK", font=("Arial",20,"bold"), width=20)

okBtn.grid(row=4,column=0,padx=10,pady=10,columnspan=2)

# output frame

self.outFrame = tk.Frame(self.root,bg="light pink", bd=4, relief="ridge")

self.outFrame.place(width=self.width/2,height=self.height-180,x=self.width/3+150, y=100)

self.tabFun()

def tabFun(self):

tabFrame = tk.Frame(self.outFrame, bg="skyblue", bd=3,relief="sunken")

tabFrame.place(x=40, y=40,width=self.width/2-80,height=self.height-260)

x\_scrol = tk.Scrollbar(tabFrame, orient="horizontal")

x\_scrol.pack(side="bottom",fill="x")

y\_scrol= tk.Scrollbar(tabFrame, orient="vertical")

y\_scrol.pack(side="right", fill="y")

self.table = ttk.Treeview(tabFrame, columns=("rollNo","name","class","fname"),xscrollcommand=x\_scrol.set, yscrollcommand=y\_scrol.set)

x\_scrol.config(command=self.table.xview)

y\_scrol.config(command=self.table.yview)

self.table.heading("rollNo",text="Roll\_No")

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

self.table.heading("class",text="Class")

self.table.heading("fname",text="Father\_Name")

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

self.table.column("rollNo",width=150)

self.table.column("name",width=150)

self.table.column("class",width=150)

self.table.column("fname",width=150)

self.table.pack(fill="both",expand=1)

def reserveFun(self):

rn= int(self.rnIn.get())

name= self.nameIn.get()

cls= self.classIn.get()

fname= self.fnameIn.get()

con = pymysql.connect(host="localhost",user="root",passwd="pass@word1",database="rec")

cur = con.cursor()

if rn and name and cls and fname:

try:

if self.room > 0:

if self.bed>0:

self.bed -= 1

cur.execute("insert into hostel(rollNo,name,class,fname)values(%s,%s,%s,%s)",(rn,name,cls,fname))

con.commit()

tk.messagebox.showinfo("Success",f"bed No.{4-self.bed} reserved in room No.{5-self.room}")

cur.execute("select\* from hostel")

data = cur.fetchall()

self.tabFun()

self.table.delete(\*self.table.get\_children())

for i in data:

self.table.insert('',tk.END,values=i)

else:

self.bed=4

self.room-=1

else:

tk.messagebox.showerror("Error","All Rooms Reserved")

except Exception as e:

tk.messagebox.showerror("Error",f"Error:{e}")

else:

tk.messagebox.showerror("Error","Please Fill All Input Fields")

root = tk.Tk()

obj = hostel(root)

root.mainloop()

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