from Tkinter import \*

import random

import time

import datetime

import tkMessageBox

root=Tk()

root.geometry("1280x800+0+0")

root.title("Restaurent Management Syatem")

root.configure(background='black')

#Total main frame

Tops=Frame(root,width=1350,height=100,bd=14,relief="raise")

Tops.pack(side=TOP)

#Total main frame

#main left frame

f1=Frame(root,width=900,height=650,bd=8,relief="raise")

f1.pack(side=LEFT)

#left top frame

f1a=Frame(f1,width=900,height=330,bd=8,relief="raise")

f1a.pack(side=TOP)

#left top left frame

f1aa=Frame(f1a,width=450,height=330,bd=16,relief="raise")

f1aa.pack(side=LEFT)

#left top right frame

f1ab=Frame(f1a,width=450,height=320,bd=16,relief="raise")

f1ab.pack(side=RIGHT)

#left bottom frame

f2a=Frame(f1,width=900,height=320,bd=6,relief="raise")

f2a.pack(side=BOTTOM)

#left bottom left frame

f2aa=Frame(f2a,width=450,height=330,bd=14,relief="raise")

f2aa.pack(side=LEFT)

#left bottom right frame

f2ab=Frame(f2a,width=450,height=330,bd=14,relief="raise")

f2ab.pack(side=RIGHT)

#main right frame

f2=Frame(root,width=440,height=650,bd=8,relief="raise")

f2.pack(side=RIGHT)

#right top frame

ft2=Frame(f2,width=440,height=450,bd=12,relief="raise")

ft2.pack(side=TOP)

#right bottom frame

fb2=Frame(f2,width=440,height=300,bd=16,relief="raise")

fb2.pack(side=BOTTOM)

Tops.configure(background='black')

f1.configure(background='black')

f2.configure(background='black')

#main header name

lblInfo=Label(Tops,font=('arial',60,'bold'),text=" Restaurent Management System ", bd=10)

lblInfo.grid(row=0,column=0)

#exit function

def qExit():

qExit=tkMessageBox.askyesno("Quit System","Do you want to exit?")

if(qExit>0):

root.destroy()

return

#reset function

def qReset():

PaidTax.set("")

SubTotal.set("")

TotalCost.set("")

CostOfBeverages.set("")

CostOfFoods.set("")

ServiceCharge.set("")

txtReceipt.delete("1.0",END)

E\_Burger.set("0")

E\_Pizza.set("0")

E\_Sandwich.set("0")

E\_Pasta.set("0")

E\_Fries.set("0")

E\_Nachos.set("0")

E\_Soup.set("0")

E\_Salad.set("0")

E\_Coffee.set("0")

E\_Tea.set("0")

E\_Mojito.set("0")

E\_Shake.set("0")

E\_Lemondae.set("0")

E\_Coke.set("0")

E\_Soda.set("0")

E\_Juice.set("0")

var1.set(0)

var2.set(0)

var3.set(0)

var4.set(0)

var5.set(0)

var6.set(0)

var7.set(0)

var8.set(0)

var9.set(0)

var10.set(0)

var11.set(0)

var12.set(0)

var13.set(0)

var14.set(0)

var15.set(0)

var16.set(0)

txtBurger.configure(state="disabled")

txtPizza.configure(state="disabled")

txtSandwich.configure(state="disabled")

txtPasta.configure(state="disabled")

txtFries.configure(state="disabled")

txtNachos.configure(state="disabled")

txtSoup.configure(state="disabled")

txtSalad.configure(state="disabled")

txtCoffee.configure(state="disabled")

txtTea.configure(state="disabled")

txtMojito.configure(state="disabled")

txtShake.configure(state="disabled")

txtLemondae.configure(state="disabled")

txtCoke.configure(state="disabled")

txtSoda.configure(state="disabled")

txtJuice.configure(state="disabled")

#check function

def chkButton():

if(var1.get()==1):

txtBurger.configure(state="normal")

elif(var1.get()==0):

txtBurger.configure(state="disabled")

E\_Burger.set("0")

if(var2.get()==1):

txtPizza.configure(state="normal")

elif(var2.get()==0):

txtPizza.configure(state="disabled")

E\_Pizza.set("0")

if(var3.get()==1):

txtSandwich.configure(state="normal")

elif(var3.get()==0):

txtSandwich.configure(state="disabled")

E\_Sandwich.set("0")

if(var4.get()==1):

txtPasta.configure(state="normal")

elif(var4.get()==0):

txtPasta.configure(state="disabled")

E\_Pasta.set("0")

if(var5.get()==1):

txtFries.configure(state="normal")

elif(var5.get()==0):

txtFries.configure(state="disabled")

E\_Fries.set("0")

if(var6.get()==1):

txtNachos.configure(state="normal")

elif(var6.get()==0):

txtNachos.configure(state="disabled")

E\_Nachos.set("0")

if(var7.get()==1):

txtSoup.configure(state="normal")

elif(var6.get()==0):

txtSoup.configure(state="disabled")

E\_Soup.set("0")

if(var8.get()==1):

txtSalad.configure(state="normal")

elif(var6.get()==0):

txtSalad.configure(state="disabled")

E\_Salad.set("0")

if(var9.get()==1):

txtCoffee.configure(state="normal")

elif(var6.get()==0):

txtCoffee.configure(state="disabled")

E\_Coffee.set("0")

if(var10.get()==1):

txtTea.configure(state="normal")

elif(var6.get()==0):

txtTea.configure(state="disabled")

E\_Tea.set("0")

if(var11.get()==1):

txtMojito.configure(state="normal")

elif(var6.get()==0):

txtMojito.configure(state="disabled")

E\_Mojito.set("0")

if(var12.get()==1):

txtShake.configure(state="normal")

elif(var6.get()==0):

txtShake.configure(state="disabled")

E\_Shake.set("0")

if(var13.get()==1):

txtLemondae.configure(state="normal")

elif(var6.get()==0):

txtLemondae.configure(state="disabled")

E\_Lemondae.set("0")

if(var14.get()==1):

txtCoke.configure(state="normal")

elif(var6.get()==0):

txtCoke.configure(state="disabled")

E\_Coke.set("0")

if(var15.get()==1):

txtSoda.configure(state="normal")

elif(var6.get()==0):

txtSoda.configure(state="disabled")

E\_Soda.set("0")

if(var16.get()==1):

txtJuice.configure(state="normal")

elif(var6.get()==0):

txtJuice.configure(state="disabled")

E\_Juice.set("0")

#calculate function

def CostOfItem():

Item1=float(E\_Burger.get())

Item2=float(E\_Pizza.get())

Item3=float(E\_Sandwich.get())

Item4=float(E\_Pasta.get())

Item5=float(E\_Fries.get())

Item6=float(E\_Nachos.get())

Item7=float(E\_Soup.get())

Item8=float(E\_Salad.get())

Item9=float(E\_Coffee.get())

Item10=float(E\_Tea.get())

Item11=float(E\_Mojito.get())

Item12=float(E\_Shake.get())

Item13=float(E\_Lemondae.get())

Item14=float(E\_Coke.get())

Item15=float(E\_Soda.get())

Item16=float(E\_Juice.get())

PriceOfBeverages=(Item1\*2)+(Item2\*2)+(Item3\*2)+(Item4\*2)+(Item5\*2)+(Item6\*2)+(Item7\*2)+(Item8\*2)

PriceOfFoods=(Item9\*2)+(Item10\*2)+(Item11\*2)+(Item12\*2)+(Item13\*2)+(Item14\*2)+(Item15\*2)+(Item16\*2)

BeveragesPrice="$"+str('%.2f'%(PriceOfBeverages))

FoodsPrice="$"+str('%.2f'%(PriceOfFoods))

CostOfBeverages.set(BeveragesPrice)

CostOfFoods.set(FoodsPrice)

SC="$"+str('%.2f'%(1.59))

ServiceCharge.set(SC)

#mention calculation of tax

subTotal1="$"+str('%.2f'%(PriceOfBeverages+PriceOfFoods+1.59))

SubTotal.set(subTotal1)

Tax="$"+str('%.2f'%((PriceOfBeverages+PriceOfFoods+1.59)\*0.15))

PaidTax.set(Tax);

TT=((PriceOfBeverages+PriceOfFoods+1.59)\*0.15)

TC="$"+str('%.2f'%(PriceOfBeverages+PriceOfFoods+1.59+TT))

TotalCost.set(TC)

def receipt():

txtReceipt.delete("1.0",END)

x=random.randint(100898,6812789)

randomRef=str(x)

Receipt\_Ref.set("Bill"+randomRef)

txtReceipt.insert(END,'Burger\t\t\t'+str(E\_Burger.get()) +"\n")

txtReceipt.insert(END,'Pizza\t\t\t'+str(E\_Pizza.get()) +"\n")

txtReceipt.insert(END,'Sandwich\t\t\t'+str(E\_Sandwich.get()) +"\n")

txtReceipt.insert(END,'Pasta\t\t\t'+str(E\_Pasta.get()) +"\n")

txtReceipt.insert(END,'Fries\t\t\t'+str(E\_Fries.get()) +"\n")

txtReceipt.insert(END,'Nachos\t\t\t'+str(E\_Nachos.get()) +"\n")

txtReceipt.insert(END,'Soup\t\t\t'+str(E\_Soup.get()) +"\n")

txtReceipt.insert(END,'Salad\t\t\t'+str(E\_Salad.get()) +"\n")

txtReceipt.insert(END,'Coffee\t\t\t'+str(E\_Coffee.get()) +"\n")

txtReceipt.insert(END,'Tea\t\t\t'+str(E\_Tea.get()) +"\n")

txtReceipt.insert(END,'Mojito\t\t\t'+str(E\_Mojito.get()) +"\n")

txtReceipt.insert(END,'Shake\t\t\t'+str(E\_Shake.get()) +"\n")

txtReceipt.insert(END,'Lemondae\t\t\t'+str(E\_Lemondae.get()) +"\n")

txtReceipt.insert(END,'Coke\t\t\t'+str(E\_Coke.get()) +"\n")

txtReceipt.insert(END,'Soda\t\t\t'+str(E\_Soda.get()) +"\n")

txtReceipt.insert(END,'Juice\t\t\t'+str(E\_Juice.get()) +"\n")

txtReceipt.insert(END,'Cost Of Foods\t\t\t'+str(CostOfFoods.get()) +"\n")

txtReceipt.insert(END,'Cost Of Beverages\t\t\t'+str(CostOfBeverages.get()) +"\n")

txtReceipt.insert(END,'Tax Paid:\t\t\t'+PaidTax.get() +"\n")

txtReceipt.insert(END,'Service Charge:\t\t\t'+ServiceCharge.get() +"\n")

txtReceipt.insert(END,'Total Cost:\t\t\t'+TotalCost.get() +"\n")

var1=IntVar()

var2=IntVar()

var3=IntVar()

var4=IntVar()

var5=IntVar()

var6=IntVar()

var7=IntVar()

var8=IntVar()

var9=IntVar()

var10=IntVar()

var11=IntVar()

var12=IntVar()

var13=IntVar()

var14=IntVar()

var15=IntVar()

var16=IntVar()

DateofOrder=StringVar()

DateofOrder.set(time.strftime("%d/%m/%y"))

Receipt=StringVar()

PaidTax=StringVar()

SubTotal=StringVar()

TotalCost=StringVar()

CostOfBeverages=StringVar()

CostOfFoods=StringVar()

ServiceCharge=StringVar()

Receipt\_Ref=StringVar()

#food input

E\_Burger=IntVar()

E\_Pizza=IntVar()

E\_Sandwich=IntVar()

E\_Pasta=IntVar()

E\_Fries=IntVar()

E\_Nachos=IntVar()

E\_Soup=IntVar()

E\_Salad=IntVar()

E\_Burger.set("0")

E\_Pizza.set("0")

E\_Sandwich.set("0")

E\_Pasta.set("0")

E\_Fries.set("0")

E\_Nachos.set("0")

E\_Soup.set("0")

E\_Salad.set("0")

#beverage input

E\_Coffee=IntVar()

E\_Tea=IntVar()

E\_Mojito=IntVar()

E\_Shake=IntVar()

E\_Lemondae=IntVar()

E\_Coke=IntVar()

E\_Soda=IntVar()

E\_Juice=IntVar()

E\_Coffee.set("0")

E\_Tea.set("0")

E\_Mojito.set("0")

E\_Shake.set("0")

E\_Lemondae.set("0")

E\_Coke.set("0")

E\_Soda.set("0")

E\_Juice.set("0")

#left foods side

Burger=Checkbutton(f1aa,text="Burger\t",variable=var1,onvalue=1,offvalue=0,font=('arial',18,'bold'),command=chkButton).grid(row=0,sticky=W)

Pizza=Checkbutton(f1aa,text="Pizza\t",variable=var2,onvalue=1,offvalue=0,font=('arial',18,'bold'),command=chkButton).grid(row=1,sticky=W)

Sandwich=Checkbutton(f1aa,text="Sandwich\t",variable=var3,onvalue=1,offvalue=0,font=('arial',18,'bold'),command=chkButton).grid(row=2,sticky=W)

Pasta=Checkbutton(f1aa,text="Pasta\t",variable=var4,onvalue=1,offvalue=0,font=('arial',18,'bold'),command=chkButton).grid(row=3,sticky=W)

Fries=Checkbutton(f1aa,text="Fries\t",variable=var5,onvalue=1,offvalue=0,font=('arial',18,'bold'),command=chkButton).grid(row=4,sticky=W)

Nachos=Checkbutton(f1aa,text="Nachos\t",variable=var6,onvalue=1,offvalue=0,font=('arial',18,'bold'),command=chkButton).grid(row=5,sticky=W)

Soup=Checkbutton(f1aa,text="Soup\t",variable=var7,onvalue=1,offvalue=0,font=('arial',18,'bold'),command=chkButton).grid(row=6,sticky=W)

Salad=Checkbutton(f1aa,text="Salad\t",variable=var8,onvalue=1,offvalue=0,font=('arial',18,'bold'),command=chkButton).grid(row=7,sticky=W)

#left food enter side

txtBurger=Entry(f1aa,font=('arial',16,'bold'),bd=8,width=15,textvariable=E\_Burger,justify='left',state='disabled')

txtBurger.grid(row=0,column=1)

txtPizza=Entry(f1aa,font=('arial',16,'bold'),bd=8,width=15,textvariable=E\_Pizza,justify='left',state='disabled')

txtPizza.grid(row=1,column=1)

txtSandwich=Entry(f1aa,font=('arial',16,'bold'),bd=8,width=15,textvariable=E\_Sandwich,justify='left',state='disabled')

txtSandwich.grid(row=2,column=1)

txtPasta=Entry(f1aa,font=('arial',16,'bold'),bd=8,width=15,textvariable=E\_Pasta,justify='left',state='disabled')

txtPasta.grid(row=3,column=1)

txtFries=Entry(f1aa,font=('arial',16,'bold'),bd=8,width=15,textvariable=E\_Fries,justify='left',state='disabled')

txtFries.grid(row=4,column=1)

txtNachos=Entry(f1aa,font=('arial',16,'bold'),bd=8,width=15,textvariable=E\_Nachos,justify='left',state='disabled')

txtNachos.grid(row=5,column=1)

txtSoup=Entry(f1aa,font=('arial',16,'bold'),bd=8,width=15,textvariable=E\_Soup,justify='left',state='disabled')

txtSoup.grid(row=6,column=1)

txtSalad=Entry(f1aa,font=('arial',16,'bold'),bd=8,width=15,textvariable=E\_Salad,justify='left',state='disabled')

txtSalad.grid(row=7,column=1)

#right beverage side

Coffee=Checkbutton(f1ab,text="Coffee\t",variable=var9,onvalue=1,offvalue=0,font=('arial',18,'bold'),command=chkButton).grid(row=0,sticky=W)

Tea=Checkbutton(f1ab,text="Tea\t",variable=var10,onvalue=1,offvalue=0,font=('arial',18,'bold'),command=chkButton).grid(row=1,sticky=W)

Mojito=Checkbutton(f1ab,text="Mojito\t",variable=var11,onvalue=1,offvalue=0,font=('arial',18,'bold'),command=chkButton).grid(row=2,sticky=W)

Shake=Checkbutton(f1ab,text="Shake\t",variable=var12,onvalue=1,offvalue=0,font=('arial',18,'bold'),command=chkButton).grid(row=3,sticky=W)

Lemondae=Checkbutton(f1ab,text="Lemondae\t",variable=var13,onvalue=1,offvalue=0,font=('arial',18,'bold'),command=chkButton).grid(row=4,sticky=W)

Coke=Checkbutton(f1ab,text="Coke\t",variable=var14,onvalue=1,offvalue=0,font=('arial',18,'bold'),command=chkButton).grid(row=5,sticky=W)

Soda=Checkbutton(f1ab,text="Soda\t",variable=var15,onvalue=1,offvalue=0,font=('arial',18,'bold'),command=chkButton).grid(row=6,sticky=W)

Juice=Checkbutton(f1ab,text="Juice\t",variable=var16,onvalue=1,offvalue=0,font=('arial',18,'bold'),command=chkButton).grid(row=7,sticky=W)

#right beverage enter side

txtCoffee=Entry(f1ab,font=('arial',16,'bold'),bd=8,width=15,textvariable=E\_Coffee,justify='left',state='disabled')

txtCoffee.grid(row=0,column=1)

txtTea=Entry(f1ab,font=('arial',16,'bold'),bd=8,width=15,textvariable=E\_Tea,justify='left',state='disabled')

txtTea.grid(row=1,column=1)

txtMojito=Entry(f1ab,font=('arial',16,'bold'),bd=8,width=15,textvariable=E\_Mojito,justify='left',state='disabled')

txtMojito.grid(row=2,column=1)

txtShake=Entry(f1ab,font=('arial',16,'bold'),bd=8,width=15,textvariable=E\_Shake,justify='left',state='disabled')

txtShake.grid(row=3,column=1)

txtLemondae=Entry(f1ab,font=('arial',16,'bold'),bd=8,width=15,textvariable=E\_Lemondae,justify='left',state='disabled')

txtLemondae.grid(row=4,column=1)

txtCoke=Entry(f1ab,font=('arial',16,'bold'),bd=8,width=15,textvariable=E\_Coke,justify='left',state='disabled')

txtCoke.grid(row=5,column=1)

txtSoda=Entry(f1ab,font=('arial',16,'bold'),bd=8,width=15,textvariable=E\_Soda,justify='left',state='disabled')

txtSoda.grid(row=6,column=1)

txtJuice=Entry(f1ab,font=('arial',16,'bold'),bd=8,width=15,textvariable=E\_Juice,justify='left',state='disabled')

txtJuice.grid(row=7,column=1)

#for Receipt Frame

lblReceipt=Label(ft2,font=('arial',12,'bold'),text="Restaurant Receipt",bd=2)

lblReceipt.grid(row=0,column=0,sticky=W)

txtReceipt=Text(ft2,font=('arial',11,'bold'),bd=8,width=40)

txtReceipt.grid(row=1,column=0)

#cost of item information

lblCostOfFoods=Label(f2aa,font=('arial',16,'bold'),text="Enter the Amount Per Cost of Foods:",bd=8)

lblCostOfFoods.grid(row=0,column=0,sticky=W)

txtCostOfFoods=Entry(f2aa,font=('arial',16,'bold'),bd=6,width=12,justify='left',textvariable=CostOfFoods)

txtCostOfFoods.grid(row=0,column=1,sticky=W)

lblCostOfBeverages=Label(f2aa,font=('arial',16,'bold'),text="Enter the Amount Per Cost of Beverages:",bd=8)

lblCostOfBeverages.grid(row=1,column=0,sticky=W)

txtCostOfBeverages=Entry(f2aa,font=('arial',16,'bold'),bd=7,width=12,justify='left',textvariable=CostOfBeverages)

txtCostOfBeverages.grid(row=1,column=1,sticky=W)

lblCostofserviceCharge=Label(f2aa,font=('arial',16,'bold'),text="Service Charge",bd=8)

lblCostofserviceCharge.grid(row=2,column=0,sticky=W)

txtCostofserviceCharge=Entry(f2aa,font=('arial',16,'bold'),bd=6,width=12,justify='left',textvariable=ServiceCharge)

txtCostofserviceCharge.grid(row=2,column=1,sticky=W)

#payment Information

lblCostofTax=Label(f2ab,font=('arial',16,'bold'),text="Enter tax Percentage:",bd=8)

lblCostofTax.grid(row=0,column=0,sticky=W)

txtCostofTax=Entry(f2ab,font=('arial',16,'bold'),bd=6,width=12,justify='left',textvariable=PaidTax)

txtCostofTax.grid(row=0,column=1,sticky=W)

lblCostofSubTotal=Label(f2ab,font=('arial',16,'bold'),text="Sub Total:",bd=8)

lblCostofSubTotal.grid(row=1,column=0,sticky=W)

txtCostofSubTotal=Entry(f2ab,font=('arial',16,'bold'),bd=7,width=12,justify='left',textvariable=SubTotal)

txtCostofSubTotal.grid(row=1,column=1,sticky=W)

lblCostofTotal=Label(f2ab,font=('arial',16,'bold'),text="Total",bd=8)

lblCostofTotal.grid(row=2,column=0,sticky=W)

txtCostofTotal=Entry(f2ab,font=('arial',16,'bold'),bd=6,width=12,justify='left',textvariable=TotalCost)

txtCostofTotal.grid(row=2,column=1,sticky=W)

#Bottom Total payment right corner down frame

btnTotal=Button(fb2,padx=25,pady=25,bd=2,fg="black",font=('arial',10,'bold'),width=1,text="Total",command=CostOfItem).grid(row=0,column=0)

btnReceipt=Button(fb2,padx=25,pady=25,bd=2,fg="black",font=('arial',10,'bold'),width=1,text="Receipt",command=receipt).grid(row=0,column=1)

btnReset=Button(fb2,padx=25,pady=25,bd=2,fg="black",font=('arial',10,'bold'),width=1,text="Reset",command=qReset).grid(row=0,column=2)

btnExit=Button(fb2,padx=25,pady=25,bd=2,fg="black",font=('arial',10,'bold'),width=1,text="Exit",command=qExit).grid(row=0,column=3)

root.mainloop()