SRM MESS MANAGEMENT SYSTEM

Project submitted to the

SRM University – AP, Andhra Pradesh

for the partial fulfillment of the requirements to award the degree of

Bachelor of Technology

In

Computer Science and Engineering

School of Engineering and Sciences

Submitted by

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[December, 2022]

CERTIFICATE

Date: 6-Dec-22

This is to certify that the work present in this Project entitled "**SRM MESS MANAGEMENT SYSTEM using Python**" has been carried out by **Sahithya Akula** under my/our supervision. The work is genuine, original, and suitable for submission to the SRM University – AP for the award of Bachelor of Technology/Master of Technology in **School of Engineering and Sciences**.

Supervisor

(Signature)

Prof. / Dr. Mohammad Miskeen Ali

Lecturer,

SRM University AP.

ACKNOWLEDGEMENTS

I would want to convey my heartfelt gratitude to Prof. Mohammad Miskeen Ali, my mentor, for his invaluable advice and assistance in completing this project. We are highly indebted to our Professor and other teachers for their guidance and constant supervision as well as providing necessary information regarding the project and also for their support in completing the project. We would also like to express our gratitude towards our friends for their kind cooperation and encouragement which helped us in the completion of this project.

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Abstract

We have developed the SRMSLS Management System by using python.We have used Tkinter Module for GUI and some other basic functions and classes to create this project.We observed that all the orders are being written down in the Canteen and Came up with this small project which can make a total and show it,make a bill and can also print the bill.

Introduction

The Tkinter package ("Tk interface") is the standard Python interface to the Tcl/Tk GUI toolkit. Both Tk and Tkinter are available on most Unix platforms, including macOS, as well as on Windows systems.

Python combined with Tkinter is the easiest way to create things that also look good.

Algorithm :

- ➔ We imported both tkinter * and tkinter for the ease of programming
- ➔ We imported tempfile to create and store data in a temporary file
- ➔ We imported OS to interact with the underlying OS
- ➔ Root is the name of the TK window we open
- ➔ We define its attributes
- ➔ Then we define all variables.
- ➔ Then we define all the 5 python functions that we are using in our program.
- ➔ Then we start defining the tkinter based GUI
- ➔ Then we start to define where are the buttons to be placed

Features :

We have 5 basic features of the project.

TOTAL-Calculates the total amount of the order

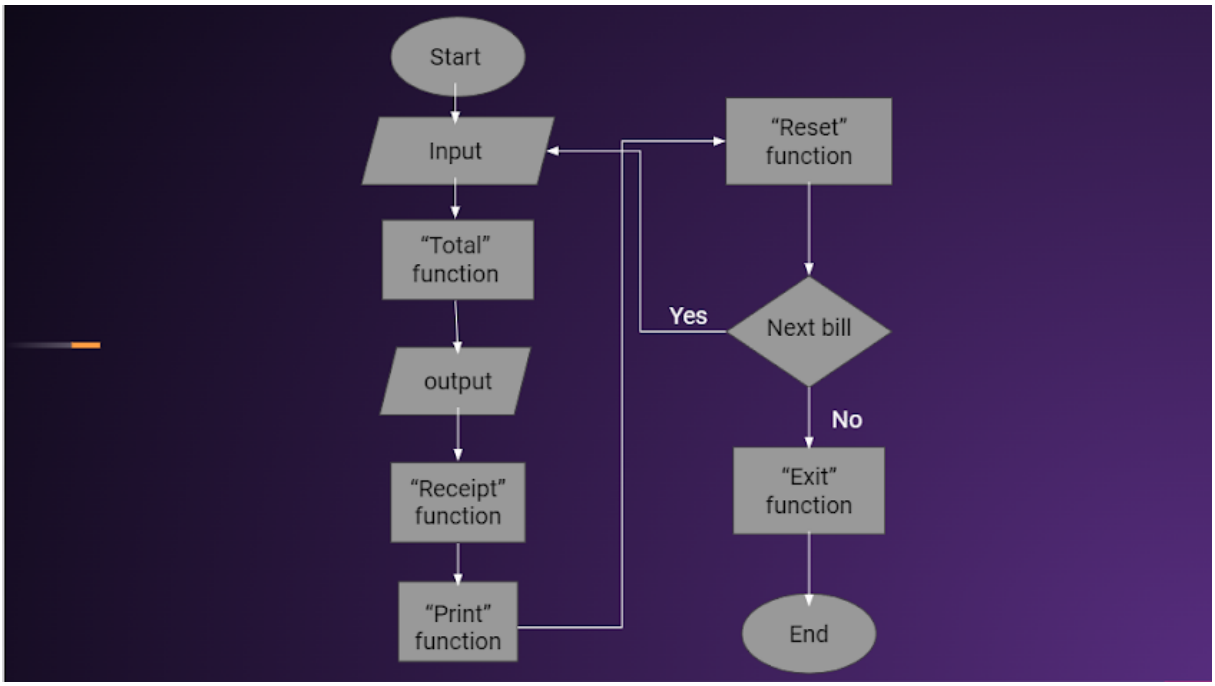
RECEIPT-Makes a receipt and Displays in the UI

RESET-Resets all values to 0

Print-Exports the data in a file to Print.

EXIT - exits the window.

Flowchart



Code and Output

```
from tkinter import *
from tkinter import messagebox
import tempfile
import os
root=Tk()
```

```
root.title('SRMSLS Manangement System')
root.geometry('1280x720')
bg_color='#000000'

Aloo=IntVar()
Chicken=IntVar()
Egg=IntVar()
Sting=IntVar()
Sug=IntVar()
Total=IntVar()

cb=StringVar()
cw=StringVar()
cr=StringVar()
cg=StringVar()
cs=StringVar()
total_cost=StringVar()

def total():
    if Aloo.get()==0 and Chicken.get()==0 and Egg.get()==0 and Sting.get()==0 and Sug.get()==0:
        messagebox.showerror('Error','Please select number of quantity')
  else:
    b=Aloo.get()
    w=Chicken.get()
    r=Egg.get()
    g=Sting.get()
    s=Sug.get()
```

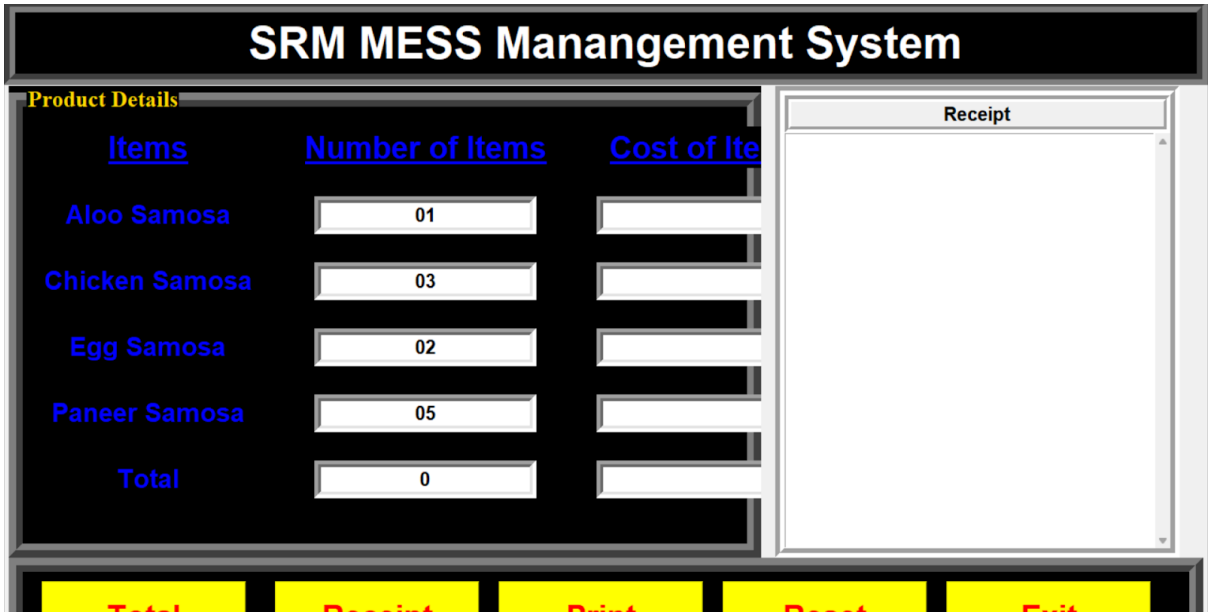
```
        t=float(b*40.0+w*20.0+r*25.0+g*50.0+s*10.0)
        Total.set(b + w + r + g + s)
        total_cost.set('₹ ' + str(round(t, 2)))

        cb.set('₹ '+str(round(b *40.0, 2)))
        cw.set('₹ '+str(round(w*20.0,2)))
        cr.set('₹'+str(round(r*25.0,2)))
        cg.set('₹'+str(round(g*50.0,2)))
        cs.set('₹'+str(round(s*10.0,2)))
def receipt():
    textarea.delete(1.0,END)
    textarea.insert(END,' Items\tNumber of Items\t  Cost of Items\n')
    textarea.insert(END,f'\nAloo\t\t{Aloo.get()}\t  {cb.get()}')
    textarea.insert(END,f'\n\nChicken\t\t{Chicken.get()}\t  {cw.get()}')
    textarea.insert(END,f'\n\nEgg\t\t{Egg.get()}\t  {cr.get()}')
    textarea.insert(END,f'\n\nMilk\t\t{Sting.get()}\t  {cg.get()}')
    textarea.insert(END, f"\n\n================================")
    textarea.insert(END,f'\nTotal Pegg\t\t{Total.get()}\t{total_cost.get()}')
    textarea.insert(END, f"\n================================")
def print():
    q=textarea.get('1.0','end-1c')
   filename=tempfile.mktemp('.txt')
    open(filename,'w').write(q)
    os.startfile(filename,'Print')
def reset():
    textarea.delete(1.0,END)
```

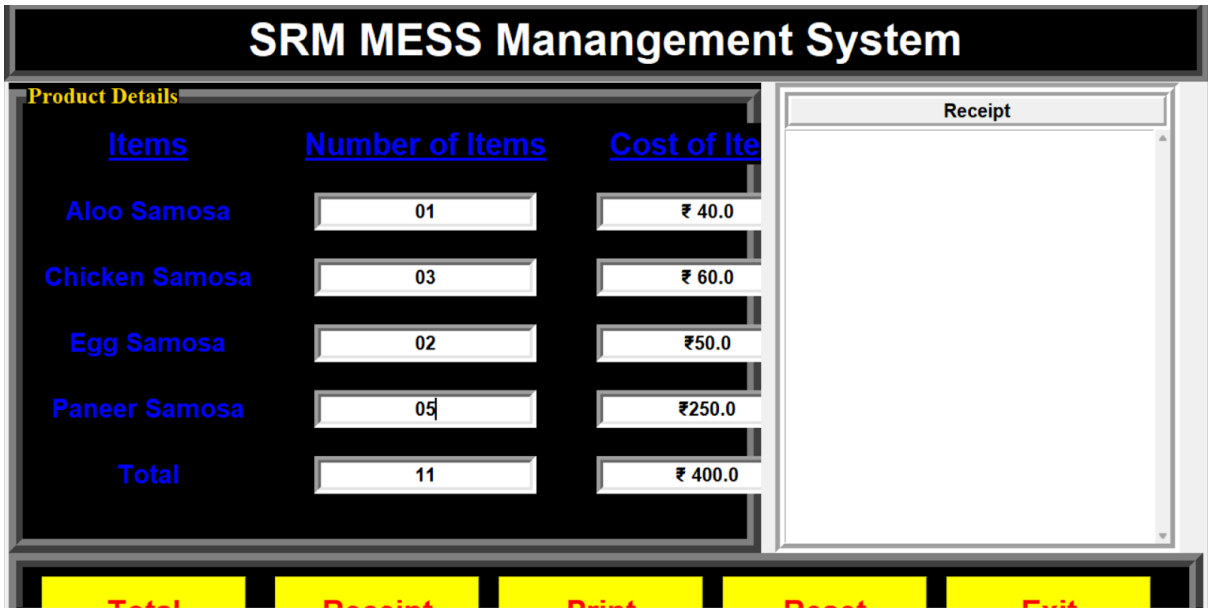
```
    Aloo.set(0)
    Chicken.set(0)
    Egg.set(0)
    Sting.set(0)
    Total.set(0)
    cb.set('')
    cw.set('')
    cr.set('')
    cg.set('')
    cs.set('')
    total_cost.set('')
def exit():
    if messagebox.askyesno('Exit','Do you really want to exit'):
        root.destroy()
title=Label(root,pady=5,text="SRM MESS Manangement System",bd=12,bg=bg_color,fg='white',font=('times new romoon', 35 ,'bold'),relief=GROOVE,justify=CENTER)
title.pack(fill=X)



F1 = LabelFrame(root, text='Product Details', font=('times new roman', 18, 'bold'), fg='gold',bg=bg_color,bd=15,relief=RIDGE)
F1.place(x=5, y=90,width=800,height=500)
itm=Label(F1, text='Items', font=('Helvetic',25, 'bold','underline'), fg='blue',bg=bg_color)
itm.grid(row=0,column=0,padx=20,pady=15)


n=Label(F1, text='Number of Items', font=('Helvetic',25, 'bold','underline'), fg='blue',bg=bg_color)
n.grid(row=0,column=1,padx=30,pady=15)
```

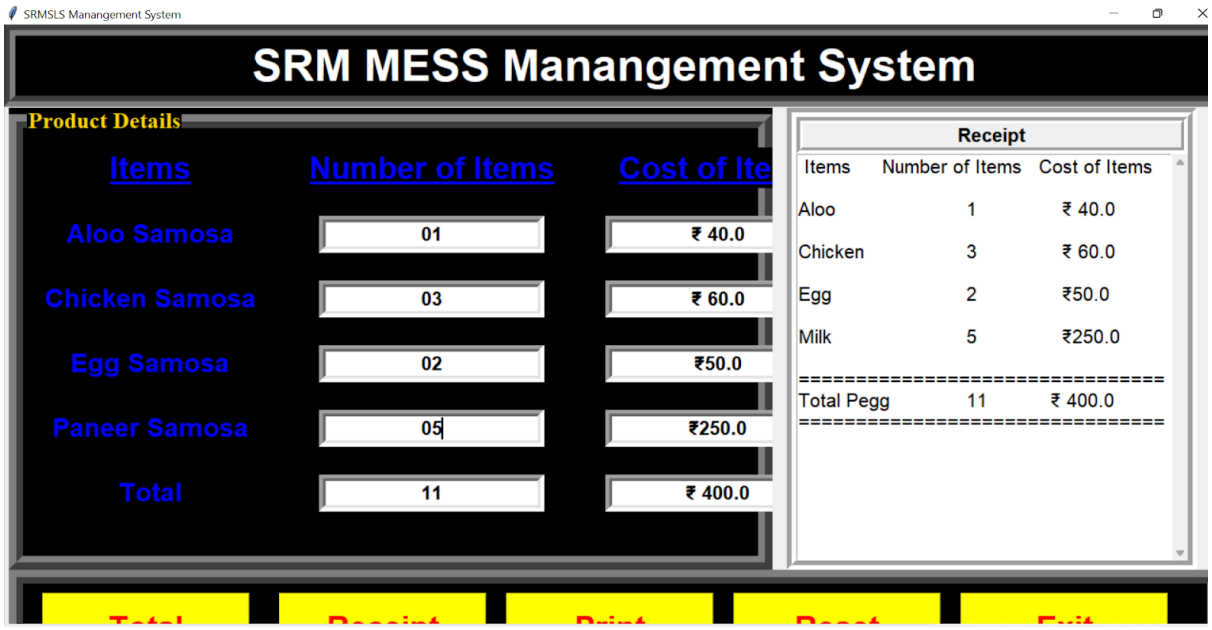
```
cost=Label(F1, text='Cost of Items', font=('Helvetic',25, 'bold','underline'), fg='blue',bg=bg_color)

cost.grid(row=0,column=2,padx=30,pady=15)


aloo=Label(F1, text='Aloo Samosa', font=('times new rommon',20, 'bold'), fg='blue',bg=bg_color)

aloo.grid(row=1,column=0,padx=20,pady=15)

b_txt=Entry(F1,font='arial                                                    15
bold',relief=SUNKEN,bd=7,textvariable=Aloo,justify=CENTER)

b_txt.grid(row=1,column=1,padx=20,pady=15)

cb_txt=Entry(F1,font='arial                                                   15
bold',relief=SUNKEN,bd=7,textvariable=cb,justify=CENTER)

cb_txt.grid(row=1,column=2,padx=20,pady=15)


chicken=Label(F1, text='Chicken Samosa', font=('times new rommon',20, 'bold'), fg='blue',bg=bg_color)

chicken.grid(row=2,column=0,padx=20,pady=15)

w_txt=Entry(F1,font='arial                                                    15
bold',relief=SUNKEN,bd=7,textvariable=Chicken,justify=CENTER)

w_txt.grid(row=2,column=1,padx=20,pady=15)

cw_txt=Entry(F1,font='arial                                                   15
bold',relief=SUNKEN,bd=7,textvariable=cw,justify=CENTER)

cw_txt.grid(row=2,column=2,padx=20,pady=15)

egg=Label(F1, text='Egg Samosa', font=('times new rommon',20, 'bold'), fg='blue',bg=bg_color)

egg.grid(row=3,column=0,padx=20,pady=15)

r_txt=Entry(F1,font='arial                                                    15
bold',relief=SUNKEN,bd=7,textvariable=Egg,justify=CENTER)

r_txt.grid(row=3,column=1,padx=20,pady=15)
```

```
cr_txt=Entry(F1,font='arial 15 bold',relief=SUNKEN,bd=7,textvariable=cr,justify=CENTER)

cr_txt.grid(row=3,column=2,padx=20,pady=15)


sting=Label(F1, text='Paneer Samosa', font=('times new rommon',20, 'bold'), fg='blue',bg=bg_color)

sting.grid(row=4,column=0,padx=20,pady=15)

g_txt=Entry(F1,font='arial 15 bold',relief=SUNKEN,bd=7,textvariable=Sting,justify=CENTER)

g_txt.grid(row=4,column=1,padx=20,pady=15)

cg_txt=Entry(F1,font='arial 15 bold',relief=SUNKEN,bd=7,textvariable=cg,justify=CENTER)

cg_txt.grid(row=4,column=2,padx=20,pady=15)


t=Label(F1, text='Total', font=('times new rommon',20, 'bold'), fg='blue',bg=bg_color)

t.grid(row=5,column=0,padx=20,pady=15)

t_txt=Entry(F1,font='arial 15 bold',relief=SUNKEN,bd=7,textvariable=Total,justify=CENTER)

t_txt.grid(row=5,column=1,padx=20,pady=15)

totalcost_txt=Entry(F1,font='arial 15 bold',relief=SUNKEN,bd=7,textvariable=total_cost,justify=CENTER)

totalcost_txt.grid(row=5,column=2,padx=20,pady=15)


F2=Frame(root,relief=GROOVE,bd=10)

F2.place(x=820,y=90,width=430,height=500)

bill_title=Label(F2,text='Receipt',font='arial 15 bold',bd=7,relief=GROOVE).pack(fill=X)

scrol_y=Scrollbar(F2,orient=VERTICAL)

scrol_y.pack(side=RIGHT,fill=Y)
```

```
textarea=Text(F2,font='arial 15',yscrollcommand=scrol_y.set)
textarea.pack(fill=BOTH)
scrol_y.config(command=textarea.yview)
F3 =Frame(root,bg=bg_color,bd=15,relief=RIDGE)
F3.place(x=5, y=590,width=1270,height=120)

btn1 = Button(F3, text='Total', font='arial 25 bold', padx=5, pady=5, bg='yellow',fg='red',width=10,command=total)
btn1.grid(row=0,column=0,padx=20,pady=10)

btn2 = Button(F3, text='Receipt', font='arial 25 bold', padx=5, pady=5, bg='yellow',fg='red',width=10,command=receipt)
btn2.grid(row=0,column=1,padx=10,pady=10)

btn3 = Button(F3, text='Print', font='arial 25 bold', padx=5, pady=5, bg='yellow',fg='red',width=10,command=print)
btn3.grid(row=0,column=2,padx=10,pady=10)

btn4 = Button(F3, text='Reset', font='arial 25 bold', padx=5, pady=5, bg='yellow',fg='red',width=10,command=reset)
btn4.grid(row=0,column=3,padx=10,pady=10)

btn5 = Button(F3, text='Exit', font='arial 25 bold', padx=5, pady=5, bg='yellow',fg='red',width=10,command=exit)
btn5.grid(row=0,column=4,padx=10,pady=10)

root.mainloop()
```


SRM MESS Manangement System
Product Details
Items
Number of Items
Cost of Ite
Aloo Samosa
01
Chicken Samosa
03
Egg Samosa
02
Paneer Samosa
05
Total
0
Receipt


SRM MESS Manangement System
Product Details
Items
Number of Items
Cost of Ite
Aloo Samosa
01
₹ 40.0
Chicken Samosa
03
₹ 60.0
Egg Samosa
02
₹50.0
Paneer Samosa
05
₹250.0
Total
11
₹ 400.0
Receipt


SRMSLS Manangement System
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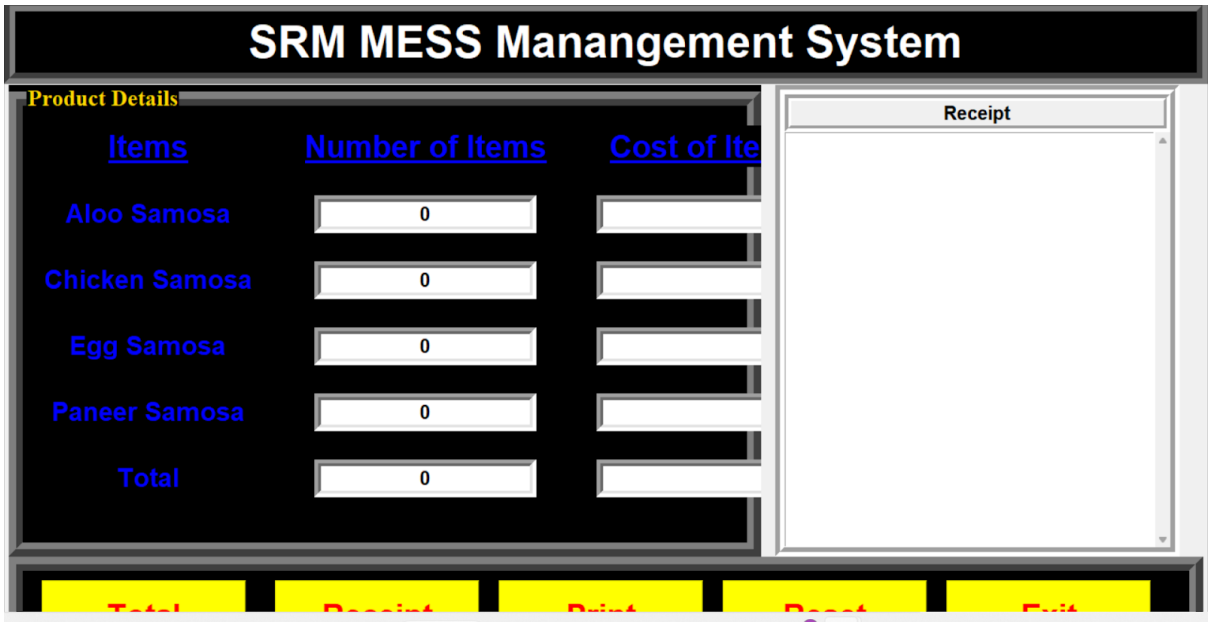
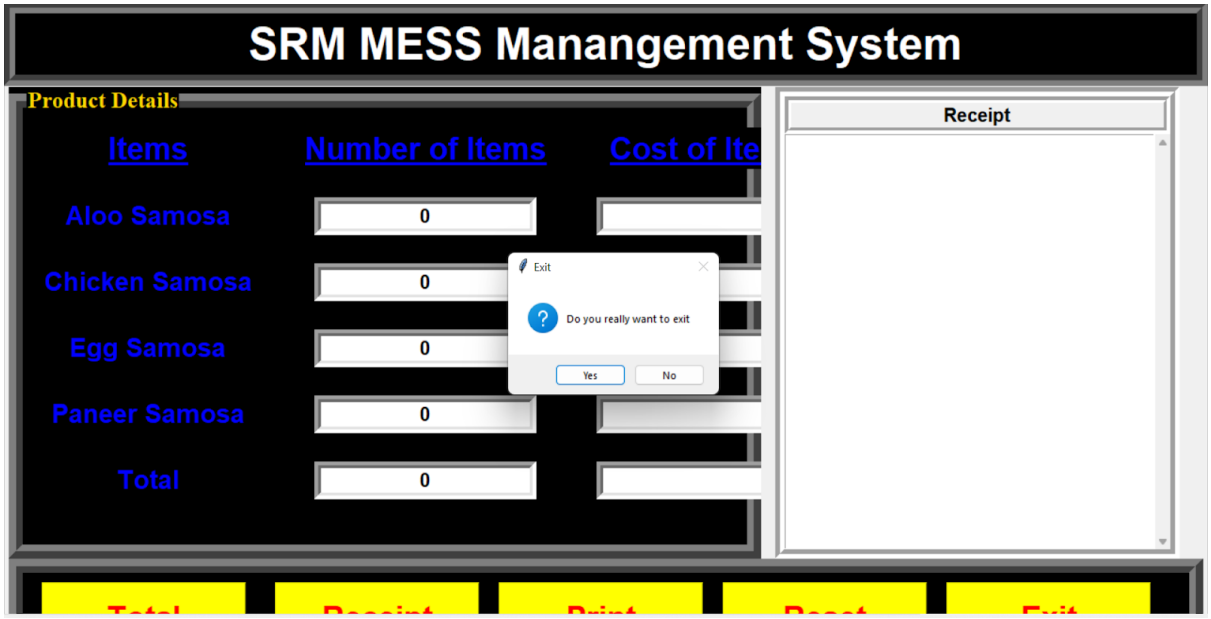
Product Details
Items
Number of Items
Cost of Ite
Aloo Samosa
01
₹ 40.0
Chicken Samosa
03
₹ 60.0
Egg Samosa
02
₹50.0
Paneer Samosa
05
₹250.0
Total
11
₹ 400.0
Receipt
Items Number of Items Cost of Items
Aloo 1 ₹ 40.0
Chicken 3 ₹ 60.0
Egg 2 ₹50.0
Milk 5 ₹250.0
==========
Total Pegg 11 ₹ 400.0
==========


SRM MESS Manangement System
Product Details
Items
Number of Items
Cost of Ite
Aloo Samosa
0
Chicken Samosa
0
Egg Samosa
0
Paneer Samosa
0
Total
0
Receipt


SRM MESS Manangement System
Product Details
Items
Number of Items
Cost of Ite
Aloo Samosa
0
Chicken Samosa
0
Egg Samosa
0
Paneer Samosa
0
Total
0
Exit
Do you really want to exit
Yes
No
Receipt

CONCLUSION

This project aims to help us in simple billing of snack items in the college mess. Billing systems are generally much more complicated and this project helped us understand the basics. It was interesting to work with GUI.