Project Report On
Restaurant Management System

Submitted in Partial fulfillment for the award of degree of Bachelor of Engineering in CSE-AIML

Submitted to

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ORIENTAL INSTITUTE OF SCIENCE AND TECHNOLOGY, BHOPAL

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DEPARTMENT OF COMPUTER SCIENCE -AIML

CERTIFICATE

This is to certify that the work embodied in this Project, Dissertation Report entitled as **"Restaurant Management System"** being Submitted) in partial fulfillment of the requirement for the award of **"Bachelor of Technology " in Computer Science -aiml** discipline to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) during the academic year 2021-2025 is a record of bonafide piece of work, carried out under my supervision and guidance in the Department of Computer Science Oriental institute of science Technology, Bhopal.

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DEPARTMENT OF COMPUTER SCIENCE -AIML

CERTIFICATE OF APPROVAL

This Project **"Restaurant Management System"** being submitted, has been examined by me & hereby approve for the partial fulfillment of the requirement for the award of **"Bachelor of Technology in Computer Science** for which it has been submitted. It is understood that by this approval the undersigned do not necessarily endorse or approve any statement made, opinion expresses or conclusion draw there in, but the Project only for the purpose for which it has been submitted.

INTERNAL EXAMINER **EXTERNAL EXAMINER**

Date: 28/11/23 Date:

CANDIDATE DECLARATION

We hereby declare that the Project dissertation work presented in the report entitled as **"Smart NotePad"** submitted in the partial fulfillment of the requirements for the award of the degree of Bachelor of Engineering in Computer Science & Engineering of Oriental College of Technology is an authentic record of our own work.

We have not submitted the part and partial of this report for the award of any other degree or diploma.

Date:

This is to certify that the above statement made by the candidates is correct to the best of my knowledge.

Guide

ACKNOWLEDGMENT

We are heartily thankful to the Management of Oriental College of Technology for providing us all the facilities and infrastructure to take our work to the final stage. It is the constant supervision, moral support and proper guidance of our respected Director **Dr. Rajesh shukla**, who motivated throughout the work. We express deep sense of gratitude and respect to our learned **, Associate Professor in the Department of Computer Science ,during** all phases' of our work. Without his enthusiasm and encouragement this dissertation would not have been completed. His valuable knowledge and innovative ideas helped us to take the work to the final stage. He has timely suggested actions and procedures for which we are really grateful and thankful to him. We express our gratefulness for providing all the facilities available in the department for his continuous support, advice, and encouragement during this work and also help to extend our knowledge and proper guidelines. Constant help, moral and financial support of our loving parents motivated us to complete the work. We express our heartily thanks to our all family members for their co-operation. We really admire the fond support of our class-mates for their co-operation and constant help. It gives immense pleasure to acknowledge the encouragement and support extended by them. Last but not the least we are extremely thankful to all who have directly or indirectly helped us for the completion of the work.

INTRODUCTION

- A restaurant management system is a software tool that is used to keep records of sales, transactions, and other user data all in one place. This type of software helps in maintaining data and provides offers and real-time delivery details to the user.
- This project is about Restaurant Management System.
- It contains all the details of food items available in restaurant.
- Details of food items will be displayed in control panel.
- From the displayed options we have to select an option and act accordingly.

SRS (SOFTWAE REQUIREMENTS SPECIFICATIOS)

Purpose

- Restaurant management system provides features like food order, online receipt generation etc.
- It will save time of user.

Scope

- This GUI program presents an easy to use visual display to the user.
- It is made up of graphical components(button level windows)through which user can interacts with the application.

SDLC

The system development life cycle, the purpose of this article is to develop an understanding of the system development lifecycle and its role in managing the development of restaurant management systems. It is very important in developing a project.

There are different model of this System Development Life cycle that helped the proponents; one of it is spiral model that helped the step-by- step procedure of this system.

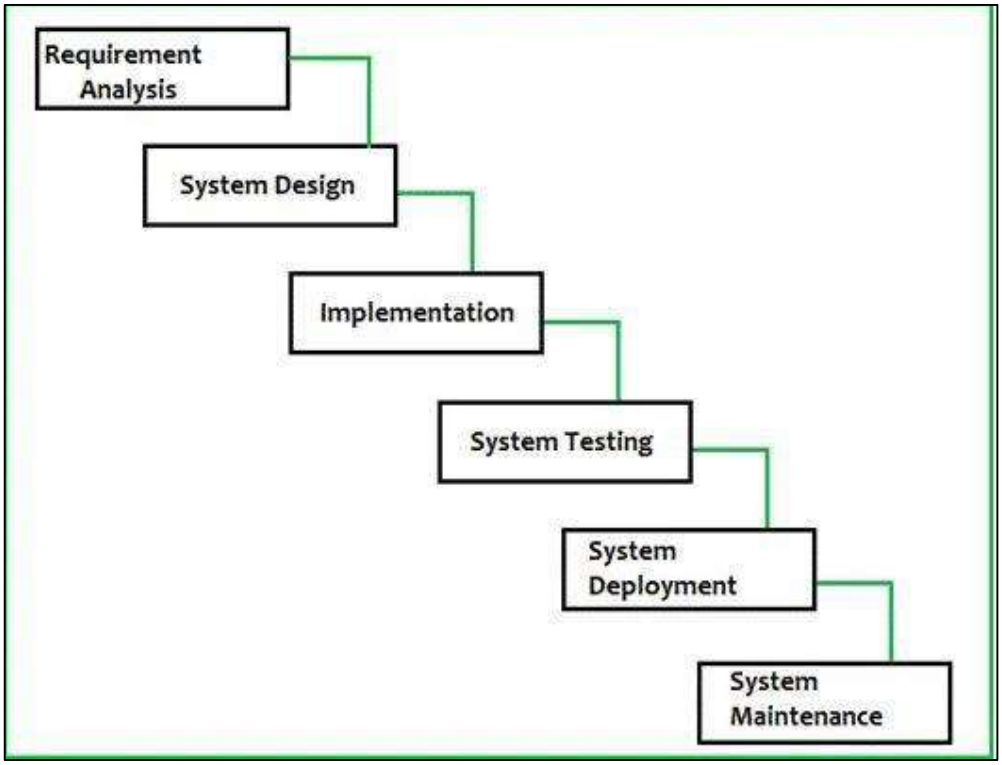
Feasibility Study

This is a free project and doesn't provide any promotion. It's purpose is to make user work fast and easy.

Software requirements

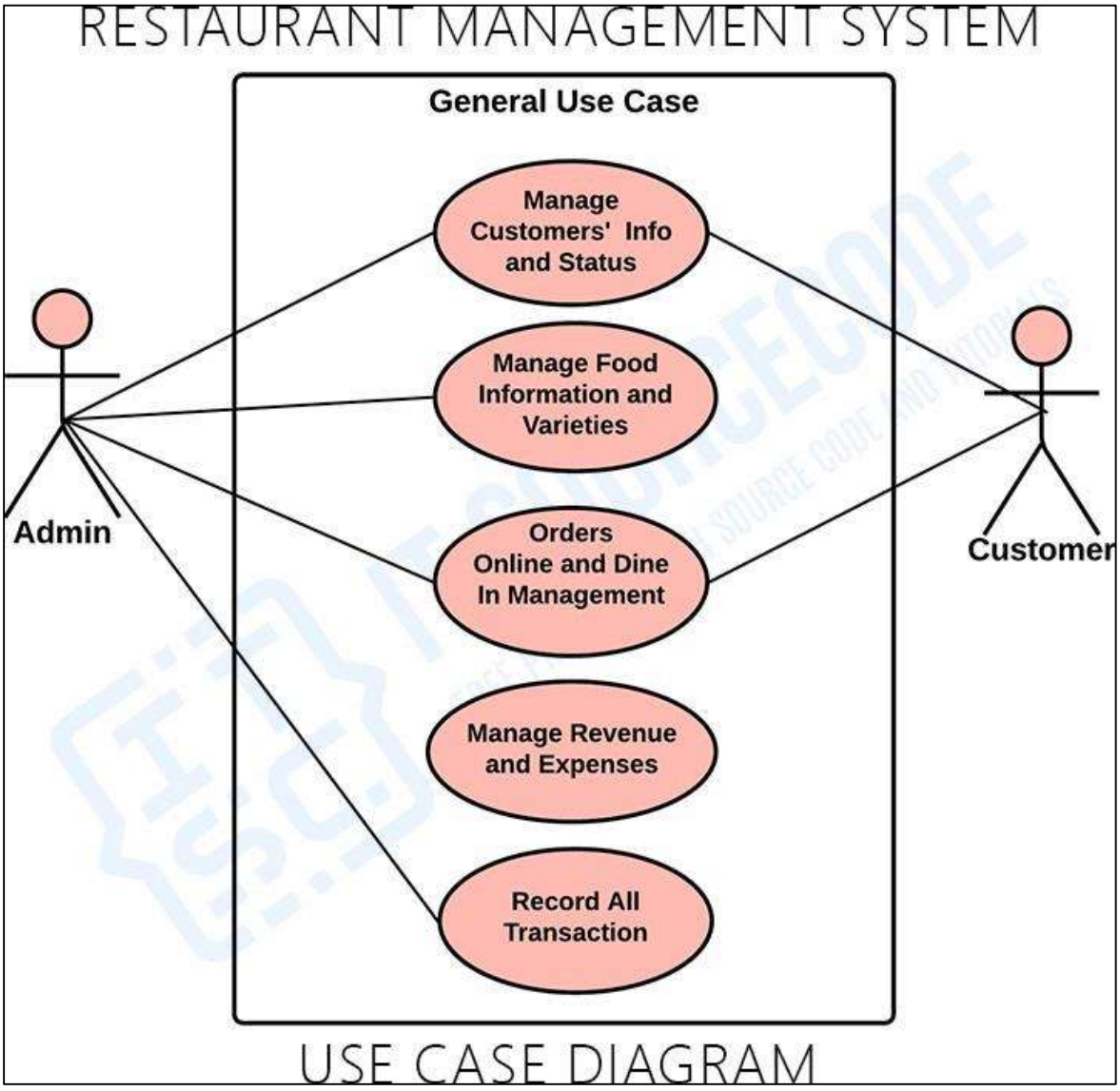
- Operating System
- RAM (Minimum 4GB)
- Processor (intel core i5)
- Language (python and Tkinter Library)

Modified Waterfall Application Development Methodology



Water Fall Model is a breakdown of project activities into linear sequential phases, where each phase depends on the deliverables of the previous one and corresponds to a specialization of tasks. The approach is typical for certain areas of engineering design.

Partial use case diagram



USER MANUAL

Introduction

- This project is about Restaurant Management System.
- It contains all the details of food items available in restaurant and automatic generates.
- Details of food items will be displayed in control panel.
- From the displayed options we have to select an option and act accordingly.

Control Panel

After login user can order food,search for food,etc.

Displayed Panel

With the help of this module open file, create file, save file, find and replace, close app using voice.

INTRODUCTION

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Create a Restaurant Management System Using Python in Tkinter

Step 1: open any Python code Editor.

Step 2: Importing the Required Modules.

```
from tkinter import*

import random

import time

import datetime
```

Step 3: Copy the code for the Restaurant Management System using Python, which I provided Below in this article, and save it.

Step 4: Run this python file main.py to start the Restaurant Management System

Tkinter:- Tkinter is a standard Python library for creating graphical user interfaces (GUIs). It provides a set of tools for creating windows, buttons, menus, and other widgets.

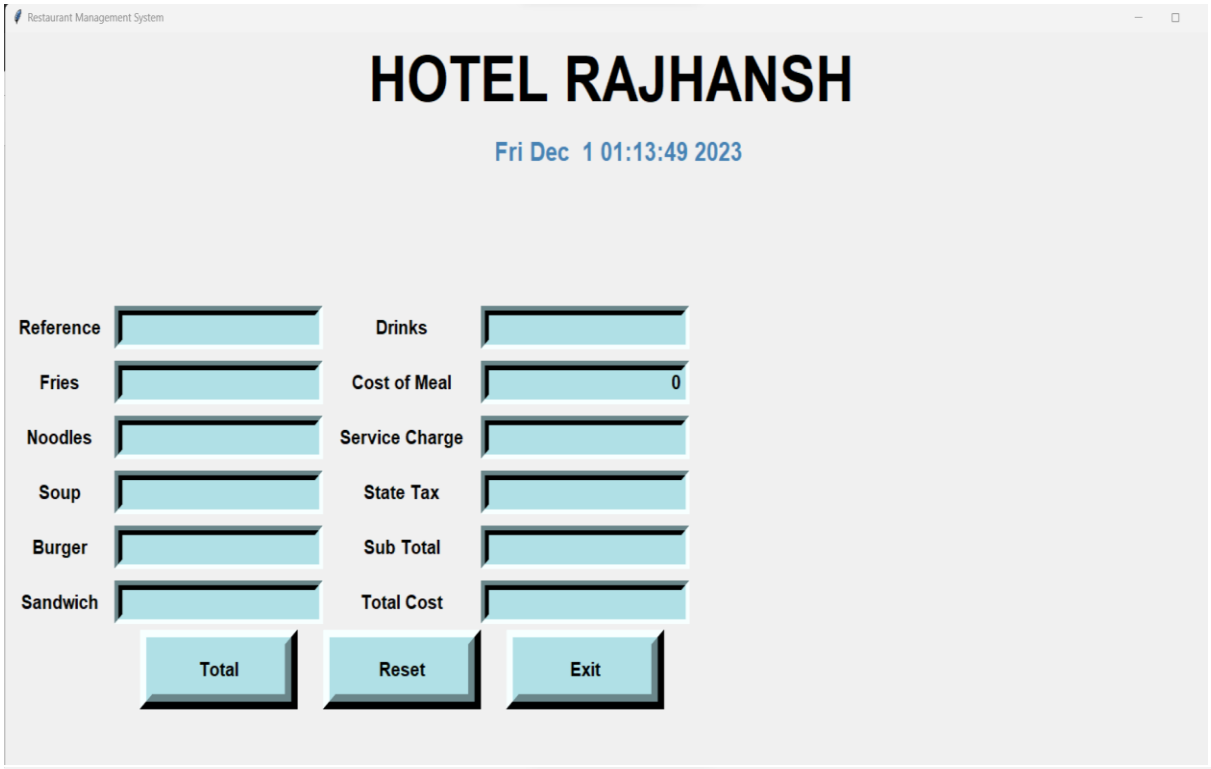
```
from tkinter import*
import random
import time
import datetime

root=Tk()
root.geometry("1600x8000")
root.title("Restaurant Management System")

Tops=Frame(root, width=1600,relief=SUNKEN)
Tops.pack(side=TOP)

f1=Frame(root,width=800,height=700,relief=SUNKEN)
f1.pack(side=LEFT)

localtime=time.asctime(time.localtime(time.time()))

lblInfo=Label(Tops,font=('helvetica',50,'bold'),text="HOTEL RAJHANSH
",fg="Black",bd=10,anchor='w')
lblInfo.grid(row=0,column=0)

lblInfo=Label(Tops,font=('arial',20,'bold'),text=localtime,fg="Steel
Blue",bd=10,anchor='w')
lblInfo.grid(row=1,column=0)

def Ref():
    x=random.randint(10908,500876)
    randomRef=str(x)
    rand.set(randomRef)
    f=open("tanmay.txt","at")
    if (Fries.get()==""):
        CoFries=0
    else:
        CoFries=float(Fries.get())


    if (Noodles.get()==""):
        CoNoodles=0
    else:
        CoNoodles=float(Noodles.get())



    if (Soup.get()==""):
        CoSoup=0
    else:
        CoSoup=float(Soup.get())
```

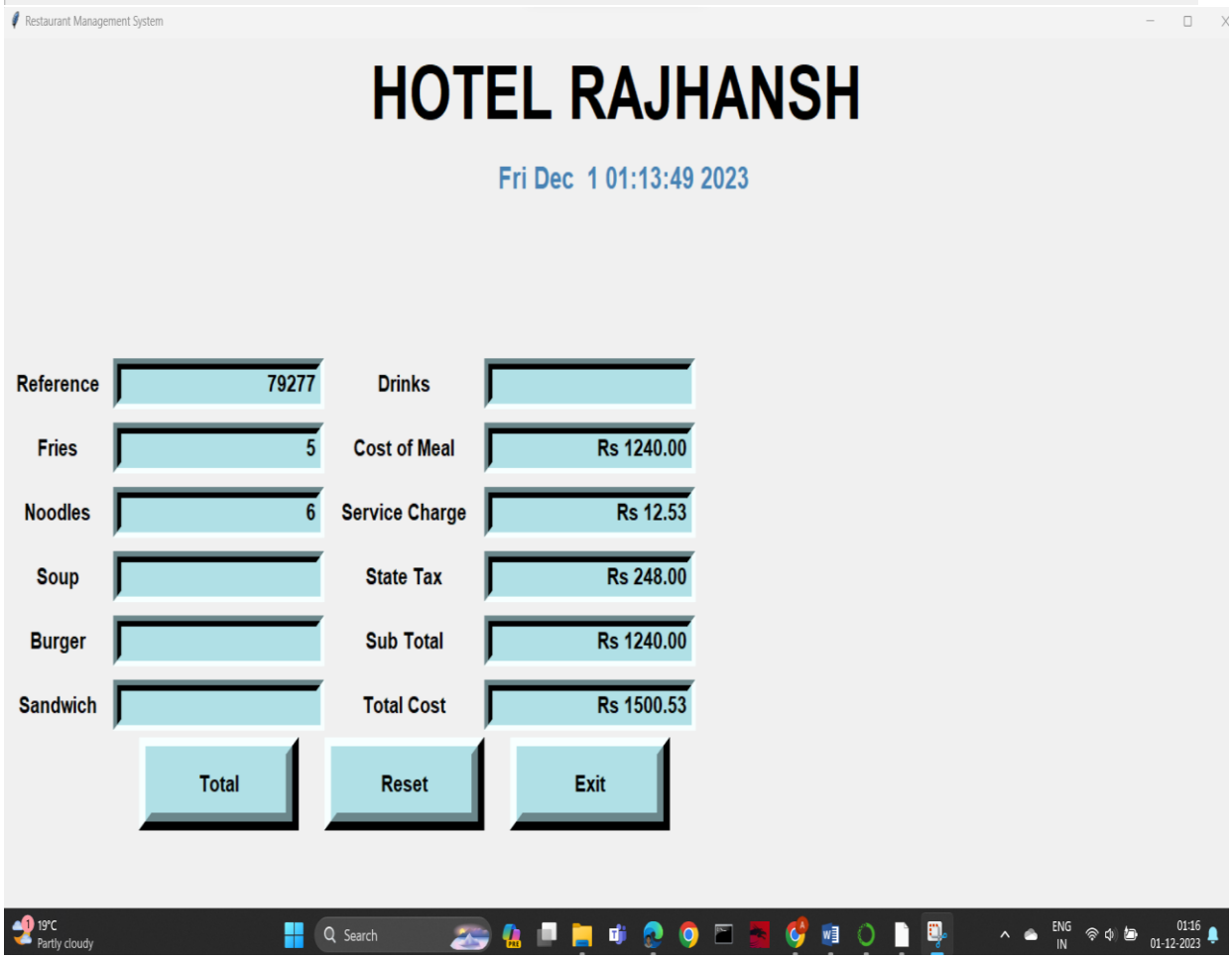
```
    if (Burger.get()==""):
        CoBurger=0
    else:
        CoBurger=float(Burger.get())


    if (Sandwich.get()==""):
        CoSandwich=0
    else:
        CoSandwich=float(Sandwich.get())


    if (Drinks.get()==""):
        CoD=0
    else:
        CoD=float(Drinks.get())


    CostofFries =CoFries * 140
    CostofDrinks=CoD * 65
    CostofNoodles = CoNoodles* 90
    CostofSoup = CoSoup * 40
    CostBurger = CoBurger* 60
    CostSandwich=CoSandwich * 30

    CostofMeal= "Rs", str('%.2f' %
(CostofFries+CostofDrinks+CostofNoodles+CostofSoup+CostBurger+CostSandwich))


PayTax=((CostofFries+CostofDrinks+CostofNoodles+CostofSoup+CostBurger+CostSandwich)
* 0.2)


TotalCost=(CostofFries+CostofDrinks+CostofNoodles+CostofSoup+CostBurger+CostSandwic
h)

    Ser_Charge=
((CostofFries+CostofDrinks+CostofNoodles+CostofSoup+CostBurger+CostSandwich)/99)

    Service = "Rs", str ('%.2f' % Ser_Charge)

    OverAllCost ="Rs", str ('%.2f' % (PayTax+TotalCost+Ser_Charge))
    to=str(OverAllCost)
    PaidTax= "Rs", str ('%.2f' % PayTax)
    f.write(to)
    Service_Charge.set(Service)
    Cost.set(CostofMeal)
    Tax.set(PaidTax)
    SubTotal.set(CostofMeal)
    Total.set(OverAllCost)
```

```
    file.write(Cost)
    file.close()
    f.close()

def qExit():
    root.destroy()

def Reset():
    rand.set("")
    Fries.set("")
    Noodles.set("")
    Soup.set("")
    SubTotal.set("")
    Total.set("")
    Service_Charge.set("")
    Drinks.set("")
    Tax.set("")
    Cost.set("")
    Burger.set("")
    Sandwich.set("")

rand = StringVar()
Fries=StringVar()
Noodles=StringVar()
Soup=StringVar()
SubTotal=StringVar()
Total=StringVar()
Service_Charge=StringVar()
Drinks=StringVar()
Tax=StringVar()
Cost=IntVar()
Burger=StringVar()
Sandwich=StringVar()



lblReference= Label(f1, font=('arial', 16,
'bold'),text="Reference",bd=16,anchor="w")
lblReference.grid(row=0, column=0)
txtReference=Entry(f1,
font=('arial',16,'bold'),textvariable=rand,bd=10,insertwidth=4,bg="powder
blue",justify='right')
txtReference.grid(row=0,column=1)

lblFries= Label(f1, font=('arial', 16, 'bold'),text="Fries",bd=16,anchor="w")
lblFries.grid(row=1, column=0)
txtFries=Entry(f1,
font=('arial',16,'bold'),textvariable=Fries,bd=10,insertwidth=4,bg="powder
blue",justify='right')
txtFries.grid(row=1,column=1)
```

```
lblNoodles= Label(f1, font=('arial', 16, 'bold'),text="Noodles",bd=16,anchor="w")
lblNoodles.grid(row=2, column=0)
txtNoodles=Entry(f1,
font=('arial',16,'bold'),textvariable=Noodles,bd=10,insertwidth=4,bg="powder
blue",justify='right')
txtNoodles.grid(row=2,column=1)


lblSoup= Label(f1, font=('arial', 16, 'bold'),text="Soup",bd=16,anchor="w")
lblSoup.grid(row=3, column=0)
txtSoup=Entry(f1,
font=('arial',16,'bold'),textvariable=Soup,bd=10,insertwidth=4,bg="powder
blue",justify='right')
txtSoup.grid(row=3,column=1)

lblBurger= Label(f1, font=('arial', 16, 'bold'),text="Burger",bd=16,anchor="w")
lblBurger.grid(row=4, column=0)
txtBurger=Entry(f1,
font=('arial',16,'bold'),textvariable=Burger,bd=10,insertwidth=4,bg="powder
blue",justify='right')
txtBurger.grid(row=4,column=1)

lblSandwich= Label(f1, font=('arial', 16, 'bold'),text="Sandwich",bd=16,anchor="w")
lblSandwich.grid(row=5, column=0)
txtSandwich=Entry(f1,
font=('arial',16,'bold'),textvariable=Sandwich,bd=10,insertwidth=4,bg="powder
blue",justify='right')
txtSandwich.grid(row=5,column=1)


lblDrinks= Label(f1, font=('arial', 16, 'bold'),text="Drinks",bd=16,anchor="w")
lblDrinks.grid(row=0, column=2)
txtDrinks=Entry(f1,
font=('arial',16,'bold'),textvariable=Drinks,bd=10,insertwidth=4,bg="powder
blue",justify='right')
txtDrinks.grid(row=0,column=3)

lblCost= Label(f1, font=('arial', 16, 'bold'),text="Cost of Meal",bd=16,anchor="w")
lblCost.grid(row=1, column=2)
txtCost=Entry(f1,
font=('arial',16,'bold'),textvariable=Cost,bd=10,insertwidth=4,bg="powder
blue",justify='right')
txtCost.grid(row=1,column=3)


lblService= Label(f1, font=('arial', 16, 'bold'),text="Service
Charge",bd=16,anchor="w")
lblService.grid(row=2, column=2)
```

```
txtService=Entry(f1,
font=('arial',16,'bold'),textvariable=Service_Charge,bd=10,insertwidth=4,bg="powder
blue",justify='right')
txtService.grid(row=2,column=3)


lblStateTax= Label(f1, font=('arial', 16, 'bold'),text="State
Tax",bd=16,anchor="w")
lblStateTax.grid(row=3, column=2)
txtStateTax=Entry(f1,
font=('arial',16,'bold'),textvariable=Tax,bd=10,insertwidth=4,bg="powder
blue",justify='right')
txtStateTax.grid(row=3,column=3)

lblSubTotal= Label(f1, font=('arial', 16, 'bold'),text="Sub
Total",bd=16,anchor="w")
lblSubTotal.grid(row=4, column=2)
txtSubTotal=Entry(f1,
font=('arial',16,'bold'),textvariable=SubTotal,bd=10,insertwidth=4,bg="powder
blue",justify='right')
txtSubTotal.grid(row=4,column=3)

lblTotalCost= Label(f1, font=('arial', 16, 'bold'),text="Total
Cost",bd=16,anchor="w")
lblTotalCost.grid(row=5, column=2)
txtTotalCost=Entry(f1,
font=('arial',16,'bold'),textvariable=Total,bd=10,insertwidth=4,bg="powder
blue",justify='right')
txtTotalCost.grid(row=5,column=3)

btnTotal=Button(f1,padx=16,pady=8,bd=16,fg="black",font=('arial',16,'bold'),width=1
0,text="Total",bg="powder blue",command=Ref).grid(row=7,column=1)

btnReset=Button(f1,padx=16,pady=8,bd=16,fg="black",font=('arial',16,'bold'),width=1
0,text="Reset",bg="powder blue",command=Reset).grid(row=7,column=2)

btnExit=Button(f1,padx=16,pady=8,bd=16,fg="black",font=('arial',16,'bold'),width=10
,text="Exit",bg="powder blue",command=qExit).grid(row=7,column=3)


root.mainloop()
```


Restaurant Management System
HOTEL RAJHANSH
Fri Dec 1 01:13:49 2023
Reference
Fries
Noodles
Soup
Burger
Sandwich
Drinks
Cost of Meal
0
Service Charge
State Tax
Sub Total
Total Cost
Total
Reset
Exit


Restaurant Management System
HOTEL RAJHANSH
Fri Dec 1 01:13:49 2023
Reference
79277
Fries
5
Noodles
6
Soup
Burger
Sandwich
Drinks
Cost of Meal
Rs 1240.00
Service Charge
Rs 12.53
State Tax
Rs 248.00
Sub Total
Rs 1240.00
Total Cost
Rs 1500.53
Total
Reset
Exit
19°C
Partly cloudy
Search
ENG
IN
01:16
01-12-2023