A Course based Project Report on
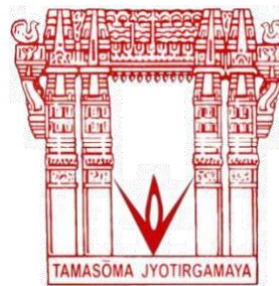
Billing System

Submitted in the partial fulfilment of the requirements for the award of degree of

BACHELOR OF TECHNOLOGYin

CYBER SECURITY

Submitted by

V.BHAVANA – 21071A6261

DEPARTMENT OF CYBER SECURITY

VNR Vignana Jyothi Institute of Engineering & Technology

(Autonomous Institute, Accredited by NAAC with 'A++' grade and NBA)

Bachupally, Nizampet (S.O.) Hyderabad- 500 090

February 2023

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<u>PROJECT GUIDE</u>

LALITHA

Professor,

Dept. of CYBER SECURITY

VNRVJIET

DEPARTMENT OF CYBER SECURITY

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Department of Cyber security

CERTIFICATE

This is to certify that the course based project work entitled "**Billing System**", being submitted by **V.Bhavana (21071A6261)** in partial fulfilment for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CYBER SECURITY** during the academic year 2022-23 is a record of bona-fide work carried out by them under our guidance and supervision. The results embodied in this report have not been submitted by the students to any other University or Institution for the award of any degree or diploma.

Project Guide   Head of Department

LALITHA   .   **Dr. RAJASHEKAR**
Professor,   **Head of Department,**
Dept. of CYS,   **Dept. of CYS**
VNRVJIET,   **VNRVJIET,**
Hyderabad.   **Hyderabad.**

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Department of Cyber security

DECLARATION

I hereby declare that the project entitled "Building a Quiz Game Using Python" submitted for the B. Tech Degree is my original work and the project has not formed the basis for the award of any degree, associate ship, fellowship or any other similar titles.

Signature of the Student:

V.BHAVANA

(21071A6261)

Place:

Date:

ACKNOWLEDGEMENT

We express our deep sense of gratitude to our beloved Chairman, Shri. D.Suresh Babu, VNR Vignana Jyothi Institute of Engineering &Technology for the valuable guidance and for permitting us to carry out this project.

With immense pleasure, we record our deep sense of gratitude to our beloved Principal, Dr.C.D.Naidu for permitting us to carry out this project.

We express our deep sense of gratitude to Dr. Rajashekar, Associate Professor and Head, Department of Cyber Security, VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad-90 for the valuable guidance and suggestions, keen interest and through encouragement extended throughout period of project work.

We take immense pleasure to express our deep sense of gratitude to our beloved Guide Lalitha, Professor in Cyber security, VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad, for his valuable suggestions and rare insights, for constant source of encouragement and inspiration throughout my project work.

We express our thanks to all those who contributed for the successful completion of our project work.

1.V.BHAVANA

(21071A6261)

AIM:

To create a billing system for a hotel along with a menu list.

OBJECTIVES:

A billing system includes procedures and processes that help create bills and invoices for customers. Nowadays, billing systems include software that allows transmitting bills and invoices to the customers offline and online. Businesses need to have billing system software for the following reasons:

- To keep track of sales and payments received
- To manage cash effectively
- To prevent errors in the compilation of bills and invoices
- Optimisation of business processes

INTRODUCTION:

The billing system is the most important function of the sales process in an organisation. A lot of thought and effort goes into setting up a streamlined billing system. In recent times, billing system software has been prominent in

Why should small businesses use billing systems?

• **Instant Invoices:** Bills and invoices are created faster than manual bills due to readily available formats and past customer data. One can also customise

bills based on requirements with minimal effort. This helps save time and the cost of billing.

• **Security:** Once the software is deployed, access controls can be placed to prevent misuse or wrong issue of invoices. This also ensures transparency in the billing system.

• **Paperwork reduction:** Due to the automation of the process, billing systems make it easy to keep records of items. This helps immensely in accounting and reports preparation by preventing errors and omissions.

• **Easy payments:** The payment process is made easy with the help of online invoices. Billing systems also help maintain a record of all payments received.

SOURCE CODE:

```
from tkinter import *

root=Tk()

root.geometry("1000x500")

root.title("Bill Mangement")

root.resizable(False,False)
```

```python
def Reset():

    entry_dosa.delete(0,END)

    entry_cookies.delete(0,END)

    entry_Tea.delete(0,END)

    entry_cofee.delete(0,END)

    entry_juice.delete(0,END)

    entry_pancakes.delete(0,END)

    entry_eggs.delete(0,END)


def Total():

    try: a1=int(dosa.get())

    except: a1=0

    try:a2=int(cookies.get())

    except:a2=0

    try:a3=int(Tea.get())

    except:a3=0
```

```python
try:a4=int(cofee.get())

except:a4=0

try:a5=int(juice.get())

except:a5=0

try:a6=int(pancakes.get())

except:a6=0

try:a7=int(eggs.get())

except:a7=0


#define cost of each item per quantity

c1=45*a1

c2=30*a2

c3=15*a3

c4=25*a4

c5=30*a5

c6=35*a6
```

```python
    c7=10*a7

lbl_total=Label(f2,font=('aria',20,'bold'),text="Total",width=16,fg="lightyellow",bg="black")

lbl_total.place(x=0,y=50)

entry_total=Entry(f2,font=('aria',20,'bold'),textvariable=Total_bill,bd=6,width=15,bg="lightgreen")

entry_total.place(x=20,y=100)

totalcost=c1+c2+c3+c4+c5+c6+c7

string_bill="Rs.",str('%.2f' %totalcost)

Total_bill.set(string_bill)

Label(text="BILL MANAGEMENT",bg='black',fg='white',font=("calibri",33),width="300",height='2').pack()


#MENU CARD

f=Frame(root,bg='lightgreen',highlightbackground="black",highlightthickness=1,width=300,height=370)

f.place(x=10,y=118)
```

```python
Label(f,text="Menu",font=("Gabriola",40,"bold"),fg="black",bg="lightgreen"
).place(x=80,y=0)

Label(f,font=("Lucida
Calligraphy",15,"bold"),text="Dosa....Rs.45/plate",fg="black",bg="lightgreen
").place(x=10,y=80)

Label(f,font=("Lucida
Calligraphy",15,"bold"),text="Cookies...Rs.30/plate",fg="black",bg="lightgre
en").place(x=10,y=110)

Label(f,font=("Lucida
Calligraphy",15,"bold"),text="Tea........Rs.15/cup",fg="black",bg="lightgreen
").place(x=10,y=140)

Label(f,font=("Lucida
Calligraphy",15,"bold"),text="Coffee..Rs.25/cup",fg="black",bg="lightgreen"
).place(x=10,y=170)

Label(f,font=("Lucida
Calligraphy",15,"bold"),text="Juice..Rs.30/glass",fg="black",bg="lightgreen"
).place(x=10,y=200)

Label(f,font=("Lucida
Calligraphy",15,"bold"),text="Pancakes...Rs.35/pack",fg="black",bg="lightgr
een").place(x=10,y=230)

Label(f,font=("Lucida
Calligraphy",15,"bold"),text="Eggs.......Rs.10/egg",fg="black",bg="lightgreen
").place(x=10,y=260)
```

```python
#bill

f2=Frame(root,bg="lightyellow",highlightbackground="black",highlightthickness=1,width=300,height=370)

f2.place(x=690,y=118)


Bill=Label(f2,text="Bill",font=('calibri',20),bg="lightyellow")

Bill.place(x=120,y=10)


#entry

f1=Frame(root,bd=5,height=370,width=300,relief=RAISED)

f1.pack()


dosa=StringVar()

cookies=StringVar()

Tea=StringVar()

cofee=StringVar()

juice=StringVar()
```

```python
pancakes=StringVar()

eggs=StringVar()

Total_bill=StringVar()


#label

lbl_dosa=Label(f1,font=("aria",20,'bold'),text="Dosa",width=12,fg="blue4")

lbl_cookies=Label(f1,font=("aria",20,'bold'),text="Cookies",width=12,fg="blue4")

lbl_Tea=Label(f1,font=("aria",20,'bold'),text="Tea",width=12,fg="blue4")

lbl_cofee=Label(f1,font=("aria",20,'bold'),text="Coffee",width=12,fg="blue4")

lbl_juice=Label(f1,font=("aria",20,'bold'),text="Juice",width=12,fg="blue4")

lbl_pancakes=Label(f1,font=("aria",20,'bold'),text="Pancakes",width=12,fg="blue4")

lbl_eggs=Label(f1,font=("aria",20,'bold'),text="Eggs",width=12,fg="blue4")

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

lbl_cookies.grid(row=2,column=0)

lbl_Tea.grid(row=3,column=0)
```

```python
lbl_cofee.grid(row=4,column=0)

lbl_juice.grid(row=5,column=0)

lbl_pancakes.grid(row=6,column=0)

lbl_eggs.grid(row=7,column=0)


#entry

entry_dosa=Entry(f1,font=("aria",20,'bold'),textvariable=dosa,bd=6,width=8,bg='lightpink')

entry_cookies=Entry(f1,font=("aria",20,'bold'),textvariable=cookies,bd=6,width=8,bg='lightpink')

entry_Tea=Entry(f1,font=("aria",20,'bold'),textvariable=Tea,bd=6,width=8,bg='lightpink')

entry_cofee=Entry(f1,font=("aria",20,'bold'),textvariable=cofee,bd=6,width=8,bg='lightpink')

entry_juice=Entry(f1,font=("aria",20,'bold'),textvariable=juice,bd=6,width=8,bg='lightpink')

entry_pancakes=Entry(f1,font=("aria",20,'bold'),textvariable=pancakes,bd=6,width=8,bg='lightpink')

entry_eggs=Entry(f1,font=("aria",20,'bold'),textvariable=eggs,bd=6,width=8,bg='lightpink')
```

```python
entry_dosa.grid(row=1,column=1)

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

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

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

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

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

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


#buttons

btn_reset=Button(f1,bd=5,fg="black",bg="lightblue",font=("ariel",16,'bold'),
width=10,text="Reset",command=Reset)

btn_reset.grid(row=8,column=0)

btn_total=Button(f1,bd=5,fg="black",bg="lightblue",font=("ariel",16,'bold'),w
idth=10,text="Total",command=Total)

btn_total.grid(row=8,column=1)

root.mainloop()
```

OUTPUT:

BILL MANAGEMENT

Menu

Dosa....Rs.45/plate
Cookies...Rs.30/plate
Tea........Rs.15/cup
Coffee..Rs.25/cup
Juice..Rs.30/glass
Pancakes...Rs.35/pack
Eggs.......Rs.10/egg

Dosa
Cookies
Tea
Coffee
Juice
Pancakes
Eggs

Reset

Total

Bill

BILL MANAGEMENT

Menu

Dosa....Rs.45/plate
Cookies...Rs.30/plate
Tea........Rs.15/cup
Coffee..Rs.25/cup
Juice..Rs.30/glass
Pancakes...Rs.35/pack
Eggs.......Rs.10/egg

Item	Quantity
Dosa	2
Cookies	
Tea	1
Coffee	1
Juice	2
Pancakes	1
Eggs	2

Reset   **Total**

Bill
Total

Rs. 245.00