



PES UNIVERSITY

(Established under Karnataka Act No. 16 of 2013)

100 Feet Ring Road, BSK III Stage, Bengaluru-560 085

Department of Computer Science & Engineering

TITLE: HOSTEL MANAGEMENT SYSTEM

TEAM MEMBERS:

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ABSTRACT:

Hostel management system is designed to manage all hostel activities like hostel admissions, fees, room, mess allotment, hostel stores & generates related reports for smooth transactions. It is also used to manage monthly mess bill calculation, hostel staff payroll, student certificates, etc. Designed & developed keeping in mind all the hostel management concerns of staff, MasterSoft's Hostel Management Software is a one-stop-solution for higher education institutions. Right from students' registration to allocating rooms & mess, managing student count records, and ins-and-outs of students, it streamlines & automates all the day-to-day hostel activities. The main reason why we are different from other hostel management projects is , we have used the simplest GUI to create a well designed management system. The software autocalculates and maintains the availability of rooms, mess list and laundry requirements. Thus making the hostel management system more efficient. The program also allows to contact the respective wardens in case of emergency or doubt clarification through a QR code.



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INTRODUCTION:

Reduce Paperwork: Managing hostels is not a cup of tea for every individual as it requires a lot of supervision and concentration. Manual approach requires paperwork to maintain a lot of records such as registration, fees, mess payment, etc. With the use of Hostel Management software, everything can be managed online as it simplifies the roles and responsibilities of staff by allotting them specific tasks that can be managed remotely.

Real-Time Data Management: Hostel Management Software is flawlessly capable of managing hostel administrative tasks such as storing editable hostel application form, rooms allotment, student registration, monthly fee, disciplinary issue, communication between parents and students, etc. This software management system can be remotely accessible from any location through internet connection so that administrative can keep an eye on real-time updates and notification.



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Transparency: Hostel Management Software also allows students and staff members to receive any new notifications or updates from hostel administrative . This will create transparency and helps to develop trust between students and hostel staff members.

Enhance Reputation of Institutions: A handy and cost-effective Hotel Management System helps the institutions to manage their hostel smoothly. A great accommodation facility experienced by students compelled them to appreciate and bring more potential students to take admission in that institute.

DESIGN AND IMPLEMENTATION:

We divided our project into two main modules; the first module consisted of all the labels and buttons(the GUI of the project). The second module mainly consisted of the underlying functions it is supposed to perform.

The information and the necessary data(backend program) was stored in the SQL server.

Code for module 1):

```
from tkinter import *
```

```
import mysql.connector
```

```
import functions as f
```

```
from PIL import ImageTk,Image
```

```
window=Tk()
```



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```
window.title("HOSTEL LOGIN")
```

```
window.geometry("300x250")
```

```
def login():
```

```
    def login_database():
```

```
        mydb = mysql.connector.connect(host = "localhost",user = "root",password =  
"Amadpsnacha@123",database="projecthostel")
```

```
        cur=mydb.cursor()
```

```
        cur.execute("SELECT * from userpwd Where username=%s and password=%s",(e1.get(),e2.get()))
```

```
        global lol
```

```
        lol=e2.get()
```

```
        l=cur.fetchall()
```

```
        mydb.close()
```

```
        print(l)
```

```
        if l!=[]:
```

```
            username=l[0][1]
```



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```
l3.config(text="User name found")

root=Tk()

root.title("STUDENT MAIN PAGE")

l1=Label(root,text="STUDENT MAIN PAGE",font="Stencil").pack()

root.geometry("350x250")

root.configure(bg="cyan")

broom=Button(root,text="Room
List",height=1,width=13,bg='black',fg='white',font='Bold',command=f.newwindow1).pack()

bmess=Button(root,text="Mess",height=1,width=13,bg='black',fg='white',font='Bold',command=f.c6).
pack()

bfee=Button(root,text="Laundry",height=1,width=13,bg='black',fg='white',font='Bold',command=f.ne
wwindow3).pack()

blogout=Button(root,text="Logout",height=1,width=13,bg='black',fg='white',font='Bold',command=f.l
ogout).pack()

bcont=Button(root,text="Contact",height=1,width=13,bg='black',fg='white',font='Bold',command=f.ne
wwindow4).pack()

else:

l3.config(text="User not found")
```



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```
window.destroy()
```

```
login_window=Tk()
```

```
login_window.geometry("400x250")
```

```
global mn,lmn
```

```
login_window.geometry('1000x630')
```

```
mn=ImageTk.PhotoImage(Image.open('pesimg.png'))
```

```
lmn=Label(login_window,image=mn).pack()
```

```
l1=Label(login_window,text="Username",font="times 20")
```

```
l1.place(x=405,y=150)
```

```
l2=Label(login_window,text="Password",font="times 20")
```

```
l2.place(x=405,y=220)
```

```
l3=Label(login_window,font="times 20")
```

```
l3.place(x=20,y=40)
```

```
email_text=StringVar()
```

```
e1=Entry(login_window,textvariable=email_text)
```

```
e1.place(x=400,y=180)
```

```
password_text=StringVar()
```



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```
e2=Entry(login_window,textvariable=password_text)
```

```
e2.place(x=400,y=250)
```

```
e2.config(show="*")
```

```
b1=Button(login_window,text="LOGIN",width=20,command=login_database)
```

```
b1.place(x=400,y=320)
```

```
login_window.mainloop()
```

```
def signup():
```

```
    def signup_database():
```

```
        mydb = mysql.connector.connect(host = "localhost", user = "root", password = "123", database = "projecthostel")
```

```
        cur = mydb.cursor()
```

```
        cur.execute("INSERT INTO userpwd (`username`, `password`) VALUES (%s,%s)", (e1.get(), e2.get()))
```

```
        l4 = Label(signup_window, text = "Account Created", font = "times 15")
```

```
        l4.grid(row = 6, column = 2)
```

```
        mydb.commit()
```

```
        mydb.close()
```

```
window.destroy()
```



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```
signup_window = Tk()

signup_window.geometry("400x250")

l1 = Label(signup_window, text = "User Name", font = "times 20")

l1.grid(row = 1, column = 1)

l2 = Label(signup_window, text = "Password", font = "times 20")

l2.grid(row = 3, column = 1)


name_text = StringVar()

e1 = Entry(signup_window, textvariable = name_text)

e1.grid(row = 1, column = 2)

email_text = StringVar()

password_text = StringVar()

e2 = Entry(signup_window, textvariable = password_text)

#e2.config("*")

e2.grid(row = 3, column = 2)


b1 = Button(signup_window, text = "Signup", width = 20, command = signup_database)

b1.grid(row = 4, column = 2)
```




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```
c=Canvas(window,bg="gray16",height=200,width=200)
```

```
l1=Label(window,text="HOSTEL",font="times 20")
```

```
l1.place(x=100,y=10)
```

```
b1=Button(window,text="LOGIN",width=20,command=login)
```

```
b1.place(x=80,y=70)
```

```
b2=Button(window,text="SIGNUP",width=20,command=signup)
```

```
b2.place(x=80,y=120)
```

Code for module 2):

```
#functions
```

```
from tkinter import *
```

```
import mysql.connector
```

```
from ast import Return
```

```
from distutils import command
```

```
from re import L
```



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```
import sys

from tkinter import *

from PIL import ImageTk,Image

from tkinter import messagebox


#receipts

#receipt1

def rc1():

    import random

    import datetime

    root = Tk()

    root.title('RECEIPT')

    l1 = Label(root, text='RECEIPT', font='Stencil').pack()

    root.geometry('450x500')

    L = [

        'IT',

        'NB',

        'NB-X',

        'MM',

        'IH',
```



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'G',

]

block = random.choice(L)

receiptno = random.randint(1, 1000)

date = datetime.datetime.now()

str = Label(root, text='*****').pack()

Label(root, text='RECEIPT NUMBER').place(x=20, y=70)

Label(root, text=receiptno).place(x=200, y=70)

Label(root, text='DATE').place(x=20, y=100)

Label(root, text=date).place(x=200, y=100)

Label(root, text='NAME').place(x=20, y=130)

Label(root, text='ROOM TYPE').place(x=20, y=160)

Label(root, text='Room-T').place(x=200, y=160)

Label(root, text='Hostel Block allotted:').place(x=20, y=290)

Label(root, text=block).place(x=200, y=290)

Label(root, text='TOTAL', font='impact').place(x=90, y=320)

Label(root, text='₹1,35,000', font='impact').place(x=200, y=320)



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```
mydb = mysql.connector.connect(host = "localhost",user = "root",password =  
"Amadpsnacha@123",database="projecthostel")  
  
cur=mydb.cursor()  
  
cur.execute("UPDATE `projecthostel`.`rooms` SET `Number of rooms left` = `Number of rooms left`-1  
WHERE (`Fees per year` = '135000');")  
  
mydb.commit()  
  
root.mainloop()
```

#receipt2

def rc2():

import random

import datetime

root = Tk()

root.title('RECEIPT')

l1 = Label(root, text='RECEIPT', font='Stencil').pack()

root.geometry('450x500')

L = [

'IT',

'NB',

'NB-X',

'MM',

'IH',



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'G',

]

block = random.choice(L)

receiptno = random.randint(1, 1000)

date = datetime.datetime.now()

str = Label(root, text='*****').pack()

Label(root, text='RECEIPT NUMBER').place(x=20, y=70)

Label(root, text=receiptno).place(x=200, y=70)

Label(root, text='DATE').place(x=20, y=100)

Label(root, text=date).place(x=200, y=100)

Label(root, text='NAME').place(x=20, y=130)

Label(root, text='ROOM TYPE').place(x=20, y=160)

Label(root, text='Room-D').place(x=200, y=160)

Label(root, text='Hostel Block allotted:').place(x=20, y=290)

Label(root, text=block).place(x=200, y=290)

Label(root, text='TOTAL', font='impact').place(x=90, y=320)

Label(root, text='₹1,50,000', font='impact').place(x=200, y=320)



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```
mydb = mysql.connector.connect(host = "localhost",user = "root",password =  
"Amadpsnacha@123",database="projecthostel")  
  
cur=mydb.cursor()  
  
cur.execute("UPDATE `projecthostel`.`rooms` SET `Number of rooms left` = `Number of rooms left`-1  
WHERE (`Fees per year` = '150000');")  
  
mydb.commit()
```

```
root.mainloop()
```

```
#receipt3
```

```
def rc3():
```

```
    import random
```

```
    import datetime
```

```
    root = Tk()
```

```
    root.title('RECEIPT')
```

```
    l1 = Label(root, text='RECEIPT', font='Stencil').pack()
```

```
    root.geometry('450x500')
```

```
    L = [  
        'IT',  
        'NB',  
        'NB-X',
```



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'MM',

'IH',

'G',

]

block = random.choice(L)

receiptno = random.randint(1, 1000)

date = datetime.datetime.now()

str = Label(root, text='*****').pack()

Label(root, text='RECEIPT NUMBER').place(x=20, y=70)

Label(root, text=receiptno).place(x=200, y=70)

Label(root, text='DATE').place(x=20, y=100)

Label(root, text=date).place(x=200, y=100)

Label(root, text='NAME').place(x=20, y=130)

Label(root, text='ROOM TYPE').place(x=20, y=160)

Label(root, text='Room-S').place(x=200, y=160)

Label(root, text='Hostel Block allotted:').place(x=20, y=290)

Label(root, text=block).place(x=200, y=290)

Label(root, text='TOTAL', font='impact').place(x=90, y=320)



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```
Label(root, text='₹1,80,000', font='impact').place(x=200,y=320)

mydb = mysql.connector.connect(host = "localhost",user = "root",password =
"123",database="projecthostel")

cur=mydb.cursor()

cur.execute("UPDATE `projecthostel`.`rooms` SET `Number of rooms left` = `Number of rooms left`-1
WHERE (`Fees per year` = '180000');")

mydb.commit()

root.mainloop()


#contactswindow

def newwindow4():

    global mn,lmn

    r5=Toplevel()

    #r5.geometry('1000x1200')

    r5.title('CONTACTS')

    r5.configure(background='WHITE')

    mn=ImageTk.PhotoImage(Image.open('contacts.png'))

    lmn=Label(r5,image=mn).pack()


#main login image
```




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```
def c6():
```

```
    global lsbr1
```

```
    global singlebr1
```

```
    global imgsbr1
```

```
    global cost1
```

```
    global recbut1
```

```
    r11=Toplevel()
```

```
    r11.geometry('1100x550')
```

```
    singlebr1=ImageTk.PhotoImage(Image.open('hostelmess2.jpg'))
```

```
    imgsbr1=Label(r11,image=singlebr1).pack()
```

```
def m2():
```

```
    global mess2,lm2
```

```
    m6=Toplevel()
```

```
    m6.geometry('1000x1000')
```

```
    m6.title('WEEK 1')
```

```
    m6.configure(background='')
```

```
    mess2=ImageTk.PhotoImage(Image.open('hostelmess2.JPG'))
```

```
    lm2=Label(m6,image=mess1)
```

```
def c12():
```

```
    global rlabel
```



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global rlabel2

global rlabel3

global pimg

global imgp

global pimg1

global imgp1

r10=Toplevel()

r10.configure(background='white')

r10.geometry('1050x750')

r10.title('RECEIPT')

pimg=ImageTk.PhotoImage(Image.open('paymentimg.jpeg'))

imgp=Label(r10,image=pimg).place(x=40,y=20,width=1000,height=500)

pimg1=ImageTk.PhotoImage(Image.open('payqr1.png'))

imgp1=Label(r10,image=pimg1).place(x=910,y=0,width=120,height=150)

rlabel=Label(r10,text="CONFIRMED ROOM:ROOM S",font=('stencil',40)).place(x=90,y=0)

rlabel2=Label(r10,text="TOTAL FEES:1,80,000\$/YR",font=('stencil',40)).place(x=50,y=500)

rlabel3=Label(r10,text="Click on the generate receipt below to receive your confirmation token to address the WARDEN AND HIS TEAM",font='ITALIC',fg='red',bg='cyan').place(x=50,y=600)

recbut2=Button(r10,text="CLICK IF PAYMENT
DONE",font=('HELVATICA',10),fg='BLACK',command=rc3).place(x=50,y=450)



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def c13():

```
mydb = mysql.connector.connect(host = "localhost",user = "root",password =  
"123",database="projecthostel")
```

```
cur=mydb.cursor()
```

def c11():

```
global rlabel
```

```
global rlabel2
```

```
global rlabel3
```

```
global pimg
```

```
global imgp
```

```
global pimg1
```

```
global imgp1
```

```
r10=Toplevel()
```

```
r10.configure(background='white')
```

```
r10.geometry('1050x750')
```

```
r10.title('RECEIPT')
```

```
pimg=ImageTk.PhotoImage(Image.open('paymentimg.jpeg'))
```

```
imgp=Label(r10,image=pimg).place(x=40,y=20,width=1000,height=500)
```

```
pimg1=ImageTk.PhotoImage(Image.open('payqr1.png'))
```



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```
imgp1=Label(r10,image=pimg1).place(x=910,y=0,width=120,height=150)

rlabel=Label(r10,text="CONFIRMED ROOM:ROOM D",font=('stencil',40)).place(x=90,y=0)

rlabel2=Label(r10,text="TOTAL FEES:1,50,000$/YR",font=('stencil',40)).place(x=50,y=500)

rlabel3=Label(r10,text="Click on the generate receipt below to receive your confirmation token to
address the WARDEN AND HIS TEAM",font='ITALIC',fg='red',bg='cyan').place(x=50,y=600)

recbut2=Button(r10,text="CLICK IF PAYMENT
DONE",font=('HELVATICA',10),fg='BLACK',command=rc2).place(x=50,y=450)

def c10():

    global rlabel

    global rlabel2

    global rlabel3

    global pimg

    global imgp

    global pimg1

    global imgp1

    r10=Toplevel()

    r10.configure(background='white')

    r10.geometry('1050x750')

    r10.title('RECEIPT')


pimg=ImageTk.PhotoImage(Image.open('paymentimg.jpeg'))

imgp=Label(r10,image=pimg).place(x=40,y=20,width=1000,height=500)
```



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```
pimg1=ImageTk.PhotoImage(Image.open('payqr1.png'))

imgp1=Label(r10,image=pimg1).place(x=910,y=0,width=120,height=150)

rlabel=Label(r10,text="CONFIRMED ROOM:ROOM T",font=('stencil',40)).place(x=90,y=0)

rlabel2=Label(r10,text="TOTAL FEES:1,35,000$/YR",font=('stencil',40)).place(x=50,y=500)

rlabel3=Label(r10,text="Click on the generate receipt below to receive your confirmation token to
address the WARDEN AND HIS TEAM",font='ITALIC',fg='red',bg='cyan').place(x=50,y=600)

recbut2=Button(r10,text="CLICK IF PAYMENT
DONE",font=('HELVATICA',10),fg='BLACK',command=rc1).place(x=50,y=450)

def c9():

    global lsbr2

    global singlebr2

    global imgsbr2

    global cost2

    global recbut2

    r9=Toplevel()

    r9.geometry('910x550')

    r9.title(' ROOM-T')

    r9.configure(background='cyan')

    singlebr2=ImageTk.PhotoImage(Image.open('3bedroom.jpeg'))

    imgsbr2=Label(r9,image=singlebr2).place(x=60,y=15,width=800,height=500)

    lsbr2=Label(r9,text="CHOICE:TRIPLE BED
ROOM",font=('Garamond',40),fg='green',bg='white').place(x=70,y=0)
```



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```
cost2=Label(r9,text="TOTAL AMOUNT=1,50,000$/yr",font=('Stripes  
caps',20),fg='red',bg='white').place(x=50,y=500)
```

```
recbut2=Button(r9,text="MAKE PAYMENT AND GENERATE  
RECEIPT",font=('HELVATICA',10),fg='red',bg='white',command=c10).place(x=611,y=515)
```

```
def c8():
```

```
    global lsbr1
```

```
    global singlebr1
```

```
    global imgsbr1
```

```
    global cost1
```

```
    global recbut1
```

```
    r8=Toplevel()
```

```
    r8.geometry('910x550')
```

```
    r8.title(' ROOM-D')
```

```
    r8.configure(background='cyan')
```

```
    singlebr1=ImageTk.PhotoImage(Image.open('2bedroom.jpeg'))
```

```
    imgsbr1=Label(r8,image=singlebr1).place(x=60,y=15,width=800,height=500)
```

```
    lsbr1=Label(r8,text="CHOICE:DUAL BED  
ROOM",font=('Garamond',50),fg='green',bg='white').place(x=80,y=0)
```

```
    cost1=Label(r8,text="TOTAL AMOUNT=1,50,000$/yr",font=('Stripes  
caps',20),fg='red',bg='white').place(x=50,y=500)
```

```
    recbut1=Button(r8,text="MAKE PAYMENT AND GENERATE  
RECEIPT",font=('HELVATICA',10),fg='red',bg='white',command=c11).place(x=611,y=515)
```



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```
def c7():
```

```
    global lsbr
```

```
    global singlebr
```

```
    global imgsbr
```

```
    global cost
```

```
    global recbut
```

```
    r7=Toplevel()
```

```
    r7.geometry('900x350')
```

```
    r7.title(' ROOM-S')
```

```
    r7.configure(background='cyan')
```

```
    singlebr=ImageTk.PhotoImage(Image.open('singlebr.jpeg'))
```

```
    imgsbr=Label(r7,image=singlebr).place(x=60,y=15,width=800,height=300)
```

```
    lsbr=Label(r7,text="CHOICE:SINGLE BED  
ROOM",font=('Garamond',50),fg='green',bg='white').place(x=80,y=0)
```

```
    cost=Label(r7,text="TOTAL AMOUNT=1,80,000$/yr",font=('Stripes  
caps',20),fg='red',bg='white').place(x=50,y=300)
```

```
    recbut=Button(r7,text="MAKE PAYMENT AND GENERATE  
RECEIPT",font=('HELVATICA',10),fg='red',bg='white',command=c12).place(x=611,y=315)
```

```
def newwindow1():
```

```
    mydb = mysql.connector.connect(host = "localhost",user = "root",password =  
"Amadpsnacha@123",database="projecthostel")
```



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```
cur=mydb.cursor()

root=Tk()

root.title("Room Allotment")

root.geometry("700x250")

root.configure(bg="MistyRose2")

#type of room

ltype=Label(root,text="TYPES OF ROOM",font="Gadugi",bg="gold",fg="black").place(x=1,y=0)

l1sing=Label(root,text="Single Person Room",font="Gadugi",bg="black",fg="white").place(x=1,y=50)

ldual=Label(root,text="Double Person
Room",font="Gadugi",bg="black",fg="white").place(x=3,y=100)

ltri=Label(root,text="Triple Person Room",font="Gadugi",bg="black",fg="white").place(x=1,y=150)

#room price

lcost=Label(root,text="COST",font="Gadugi",bg="gold",fg="black").place(x=210,y=0)

l1=Label(root,text="1,80,000",font="Gadugi",bg="white",fg="black").place(x=200,y=50)

l2=Label(root,text="1,50,000",font="Gadugi",bg="white",fg="black").place(x=200,y=100)

l3=Label(root,text="1,30,000",font="Gadugi",bg="white",fg="black").place(x=200,y=150)

#single

s=cur.execute("select `Number of rooms left` from projecthostel.rooms where `Fees per
year`=180000")

l=cur.fetchone()

#double
```




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```
s2=cur.execute("select `Number of rooms left` from projecthostel.rooms where `Fees per
year`=150000")

l2=cur.fetchone()

#triple

s3=cur.execute("select `Number of rooms left` from projecthostel.rooms where `Fees per
year`=135000")

l3=cur.fetchone()

#availability

ll0=Label(root,text="AVAILABILITY",font="Gadugi",bg="gold",fg="black").place(x=340,y=0)

ll1=Label(root,text=l,font="Gadugi",bg="white",fg="black").place(x=350,y=50)

ll2=Label(root,text=l2,font="Gadugi",bg="white",fg="black").place(x=350,y=100)

ll3=Label(root,text=l3,font="Gadugi",bg="white",fg="black").place(x=350,y=150)


#book buttons

but0=Label(root,text="BOOK NOW!!!",font="Gadugi",bg="gold",fg="black").place(x=540,y=0)

but1=Button(root,text="BOOK
NOW",font="Gadugi",bg="black",fg="white",height="1",width="20",command=c7).place(x=500,y=50)

but2=Button(root,text="BOOK
NOW",font="Gadugi",bg="black",fg="white",height="1",width="20",command=c8).place(x=500,y=100
)

but3=Button(root,text="BOOK
NOW",font="Gadugi",bg="black",fg="white",height="1",width="20",command=c9).place(x=500,y=150
)

root.mainloop()
```



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```
def newwindow2():
```

```
    '''root2=Toplevel()
```

```
    root=Tk()
```

```
    root2.title("MESS")'''
```

```
def newwindow3():
```

```
    global lsbr1
```

```
    global singlebr1
```

```
    global imgsbr1
```

```
    global cost1
```

```
    global recbut1
```

```
    r11=Toplevel()
```

```
    r11.geometry('710x550')
```

```
    singlebr1=ImageTk.PhotoImage(Image.open('laundryimg.jpg'))
```

```
    imgsbr1=Label(r11,image=singlebr1).pack()
```

```
#logout notify
```

```
def logout():
```

```
    messagebox.showinfo("", "logged out")
```

```
s
```



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CONCLUSION & FUTURE ENHANCEMENTS :

>>Notifications.

>> Attendance tracker.

>>Better and faster way to modify and allocate rooms.

>>Modern GUI.

>>Proper server management for multiple users.

>>Easy customizing of rooms on extra charges.

>>Using the app to completely automate hostel based requirements(eg: Check in time, check out time)

>>Grievance system and feedback provision.

REFERENCES:

1)<https://www.pesuacademy.com>

2)https://www.youtube.com/watch?v=7S_tz1z_5bA

3)<https://www.geeksforgeeks.org/python-programming-language/?ref=shm>