

# Hospital Management System



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CLASS:- XII C

BOARD ROLL NO.:-

DELHI PUBLIC SCHOOL INDIRAPURAM

# CERTIFICATE

This is to certify that KUMAR ARJUN of class XII-C has prepared the project on“HOSPITAL MANAGEMENT SYSTEM”. The project is result of his efforts and endeavours. This project is found worthy of acceptance as the final project report for the subject computer science of class XII.

He has prepared this project under my guidance.

Ms. Rinkoo Gupta  
(PGT Computerscience)  
(DPSIndirapuram)

# Acknowledgement

I would like to express a deep sense of gratitude towards my computer science teacher Ms. Rinkoo Gupta for guiding me through the course of my project. She always evinced keen interest in my work and her constructive advice and constant motivation have been responsible for the successful completion of this project.

My sincere thanks goes to Ms. Sangeeta Hajela, our school principal for her coordination in extending every possible support possible in the success of this project.

I would like to thank all those who have helped directly or indirectly in the completion of the project.

KUMAR ARJUN

XII-C

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# Introduction to the Project

- Header Files Used:-

- CSV module
- Tkinter module
- PIL
- mysqlconnector
- time module

- WORKING DESCRIPTION:-

The application has been designed in order to facilitate and bring ease in management of data in a hospital. Better inter-connectivity between different nodes in order to bring together a smoother experience.

The application starts with checking all the data structure and creates them if not already present. Then the user is greeted at the welcome screen. After clicking on login the user can enter the application through five different modes that are

- Administrator
- Cashier
- Doctor
- Patient
- Pharmacist

The user can login with the credentials provided to him

◆ Administrator/other employees

The Administrator is the one who does his work and fixes the backend in case any issue arises. He can monitor most aspects however can affect only a few of them. He also has access to the pharmacy and appointment management. These features are maintained for other employees who work at the hospital. The person who sets the appointments can look through the free time available to a doctor on any particular day and allot any slot of 15mins each to any patient who gets the doctors fees charged on them and stored in the transaction table while the appointment is now visible to the doctor as well as the patient on his window.

◆ Pharmacist

The pharmacist as stated earlier manages the pharmacy directory and is also responsible for allotting medicines into the accounts of the patients. The transaction is stored in transaction table while the stock is reduced from the pharmacy table and the account balance is updated at the patient table simultaneously. We can also change the stock details and add new medicines to the tables using this interface.

◆ Patient

The patient can view his account check different doctors available at the hospital as well as they can link minor accounts for insurance ease( not included but kept as a scope of further development). Also one can see any prescription to his name based on date and doctor.

◆ Doctor

The doctor who has given his working hours to the hospital has the flexibility to reschedule them according to his needs as well. He can look at a days appointments and also write prescriptions to them using the application

◆ Cashier

The cashier is the one who takes money from the patient and makes the

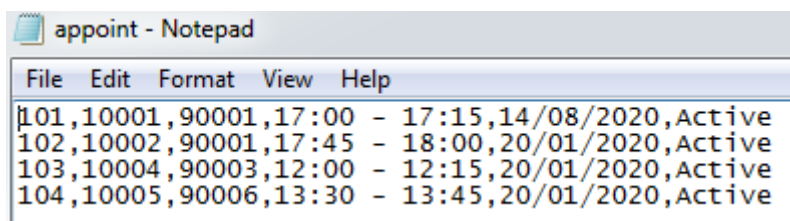
records in the computer. He gets the all past and pending transaction details of the patient whether it is at the pharmacy or doctor's fee all are managed using this window.

## Storage Structure

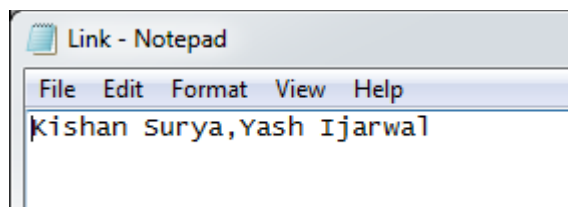
The data is stored in multiple ways each depending upon on its purpose and ease of extraction.

The appointment details, doctor's flexible time and account linking is based on CSV storage while the data related to transanction, patient details, employee details and pharmacy directory is stroed on MySQL linked with the help of mySQLConnector. Finally the prescription made by doctors are stored in a patient's personal directory as a text file.

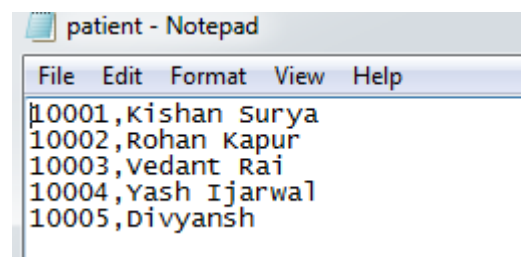
### CSV FILES:-



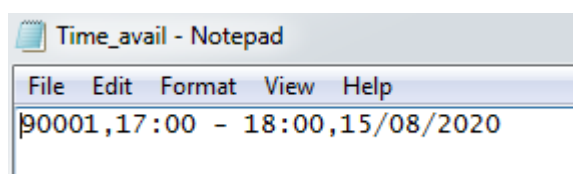
```
File Edit Format View Help
101,10001,90001,17:00 - 17:15,14/08/2020,Active
102,10002,90001,17:45 - 18:00,20/01/2020,Active
103,10004,90003,12:00 - 12:15,20/01/2020,Active
104,10005,90006,13:30 - 13:45,20/01/2020,Active
```



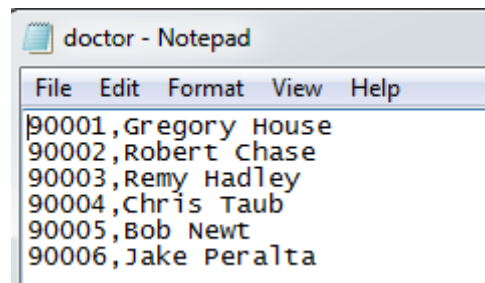
```
File Edit Format View Help
Kishan Surya,Yash Ijarwal
```



```
File Edit Format View Help
10001,Kishan Surya
10002,Rohan Kapur
10003,Vedant Rai
10004,Yash Ijarwal
10005,Divyansh
```



```
File Edit Format View Help
90001,17:00 - 18:00,15/08/2020
```



```
File Edit Format View Help
90001,Gregory House
90002,Robert Chase
90003,Remy Hadley
90004,Chris Taub
90005,Bob Newt
90006,Jake Peralta
```



## MySQL TABLES:-

Accounts table:-

```
mysql> desc accounts;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Acc_num | int | NO | PRI | NULL | |
| Name | varchar(40) | YES | | NULL | |
| Amount_paid | int | YES | | NULL | |
| Total_amount | int | YES | | NULL | |
| password | varchar(40) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.04 sec)
```

```
mysql> select * from accounts;
+-----+-----+-----+-----+-----+
| Acc_num | Name | Amount_paid | Total_amount | password |
+-----+-----+-----+-----+-----+
| 10001 | Kishan Surya | 11500 | 11800 | 10001 |
| 10002 | Rohan Kapur | 0 | 11000 | 10002 |
| 10003 | Uedant Rai | 0 | 0 | 10003 |
| 10004 | Yash Ijarwal | 0 | 1000 | 10004 |
| 10005 | Divyansh | 0 | 1000 | 10005 |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

Employee table

```
mysql> select * from employee;
+-----+-----+-----+-----+-----+-----+-----+
| D_ID | NAME | MED_LISC | ARRIVETime | LEAVETime | Fees | SALARY |
+-----+-----+-----+-----+-----+-----+-----+
| 90001 | Gregory House | A012345601 | 17:00 | 19:00 | 1000 | 100000.00 |
| 90002 | Robert Chase | A012345602 | 13:00 | 14:00 | 1000 | 100000.00 |
| 90003 | Remy Hadley | A012345604 | 12:00 | 18:00 | 1000 | 100000.00 |
| 90004 | Chris Taub | A012345604 | 13:00 | 18:00 | 1000 | 100000.00 |
| 90005 | Bob Newt | A012345606 | 13:00 | 15:00 | 1000 | 100000.00 |
| 90006 | Jake Peralta | A012345608 | 13:00 | 15:00 | 1000 | 100000.00 |
+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

```
mysql> desc employee;
```

Field	Type	Null	Key	Default	Extra
D_ID	int	NO	PRI	NULL	
NAME	varchar(30)	YES		NULL	
MED_LISC	char(10)	YES		NULL	
ARRIVETIME	char(5)	YES		NULL	
LEAVETIME	char(5)	YES		NULL	
Fees	int	YES		NULL	
SALARY	decimal(9,2)	YES		NULL	
FEILD_OF_PRACTICE	varchar(30)	YES		NULL	

```
8 rows in set (0.00 sec)
```

Pharmacy Table:-

```
mysql> select * from pharmacy;
```

Drug_ID	Name	Price	Supplier
A101	Crocin(500mg tablet)	100	Himalaya Meditek Pvt. Ltd.
A102	Vicodin(10mg tablet)	200	Leben Life Sciences Ltd.
A103	Norco(7.5mg tablet)	300	Sanofi Pvt. Ltd.
A104	Digene(tablet)	200	Abbott India Ltd
A105	Amoxil(250mg tablet)	200	Eli Lilly & Co
A106	Otrivin oxy(10ml bottle)	300	Farlex Pharmaceuticals Pvt. L
A107	Betadine(100 ml bottle)	300	Tradmod Lifesciences
A108	Combiflam (325mg tablet)	100	Sanofi Pvt. Ltd.
A109	Iodex UltraGel(30g tube)	200	Doshi Medicare Pvt. Ltd.
A110	ITone Eye Drops(10ml bottle)	1000	Maya Biotech Pvt. Ltd.

```
10 rows in set (0.02 sec)
```

```
mysql> desc pharmacy;
```

Field	Type	Null	Key	Default	Extra
Drug_ID	varchar(5)	NO	PRI	NULL	
Name	varchar(40)	YES		NULL	
Price	int	YES		NULL	
Supplier	varchar(40)	YES		NULL	
Quantity	int	YES		NULL	
Exp_period	varchar(20)	YES		NULL	
Prescription_Drug	varchar(3)	YES		NULL	

```
7 rows in set (0.00 sec)
```

## Transancntion Table:-

```
mysql> select * from transanctions;
```

T_ID	ACC_num	detail	quantity	Price	Status
1001	10001	ADMISSION	1	10000	P
1002	10002	ADMISSION	1	10000	D
1003	10001	APPOINTMENT	1	1000	P
1004	10001	Crocin(500mg tablet)	5	500	P
1005	10001	Crocin(500mg tablet)	3	300	D
1006	10003	ADMISSION	1	10000	D
1007	10004	ADMISSION	1	10000	D
1008	10005	ADMISSION	1	10000	D
1009	10002	APPOINTMENT	1	1000	D
1010	10004	APPOINTMENT	1	1000	D
1011	10005	APPOINTMENT	1	1000	D

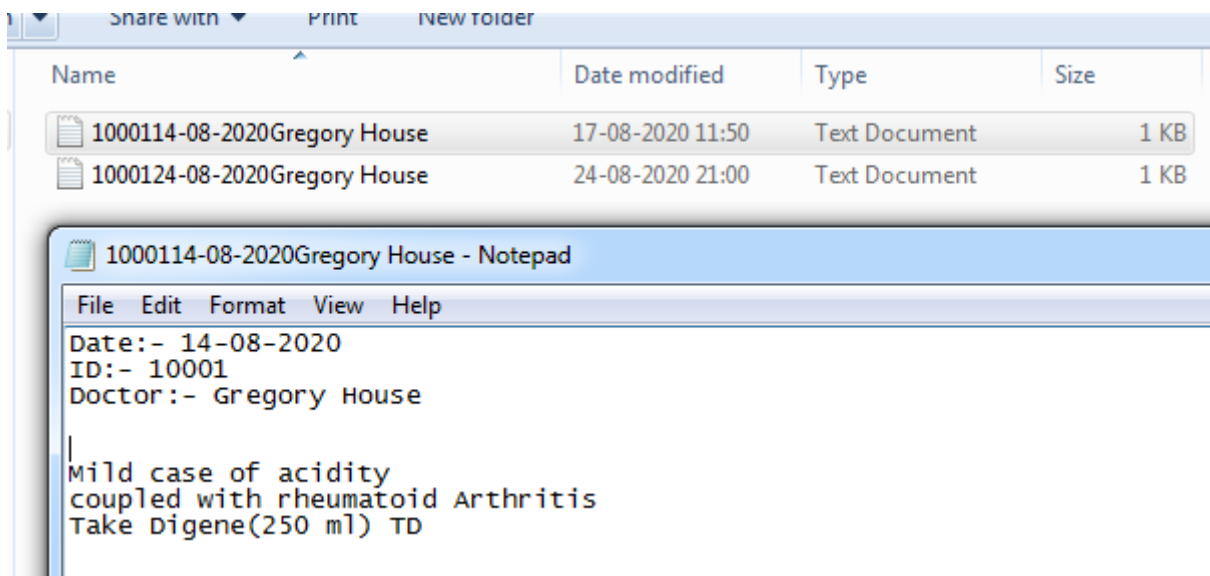
```
11 rows in set (0.00 sec)
```

```
mysql> desc transanctions;
```

Field	Type	Null	Key	Default	Extra
T_ID	int	NO	PRI	NULL	
ACC_num	int	YES		NULL	
detail	varchar(40)	YES		NULL	
quantity	int	YES		NULL	
Price	int	YES		NULL	
Status	char(1)	YES		NULL	

```
6 rows in set (0.00 sec)
```

## TEXT FILES:-



# SYSTEM REQUIREMENTS

## 1)HARDWARE REQUIREMENTS:-

The minimum requirements needed to install Python and associated applications:

- Modern Operating System:
  - Windows 7 or 10
  - Mac OS X 10.11 or higher, 64-bit
  - Linux: RHEL 6/7, 64-bit (almost all libraries also work in Ubuntu)
- x86 64-bit CPU (Intel / AMD architecture)
- 4 GB RAM
- 5 GB free disk space

## 2)SOFTWARE REQUIREMENTS:-

The following are the required libraies to be installed along with python:-

- 1) ttk along with tkinter
- 2) photo image library (PIL)
- 3) mysql connector
- 4) mySQL (version 8 or higher)

## CODING

file #1 application

#1)run the installation module first

#2)change the sql password at the sqlconnection

from time import \*

#The Driver Code

```
print("+++++  
+++++")
```

```
print("=====Welcome to the Hospital  
Management=====")
```

```
print("+++++  
+++++")
```

sleep(0.5)

from GUI1 import \*

#checking the required packages

sleep(0.5)

print("intialising...")

sleep(0.5)

print("checking required packages")

cur.execute("show tables")

```
x=cur.fetchall()

for i in x:
    for k in i:
        sleep(0.5)
        print("checking structure:-"+k)
        if k in ("accounts","employee","pharmacy","transanctions"):
            sleep(0.1)
            print("sucessful!")
        else:
            sleep(0.1)
            print("error in loading \n please run the installion module")
            sleep(0.2)
            quit()

#calling the start function

sleep(0.1)
print("launching the application...")
sleep(1)
lgn_disp1()
```

File #2 GUI1

```
from tkinter import *
from GUI2 import *
from f1 import *
from PIL import ImageTk,Image

#Creating the first display screen
def lgn_disp1():
    window0=Tk()
    window0.title("XYZ HOSPITAL")

    image2=ImageTk.PhotoImage(Image.open('FINALLOGIN.png'))

    img_1=ImageTk.PhotoImage(Image.open('button.png'))

    lbc1=Canvas(window0,width=1350,height=720,bg="RoyalBlue3")
    lbc1.grid_propagate(0)
    lbc1.create_image(0,0 ,anchor=NW,image=image2)
    lbc1.grid(column=0,row=0)

    def klik():
        lgn_disp(window0)

    frame11=LabelFrame(lbc1,width=950,height=250)
    #frame11.grid(column=4,row=4,padx=175,columnspan=3)
```

```
#frame11.grid_propagate(0)
```

```
btn0 = Button(lbc1, image=img__1, command=clik,borderwidth=0)
```

```
btn0.grid(column=5,row=10,pady=565,padx=780)
```

```
btn01 = Button(lbc1, text="QUIT", command=window0.quit,width=30,height=2)
```

```
#btn01.grid(column=5,row=11,pady=2)
```

```
window0.geometry('1350x750')
```

```
window0.mainloop()
```

```
#Login Screen
```

```
def lgn_disp(prev):
```

```
    window = Toplevel(prev)
```

```
    window.title("XYZ HOSPITAL")
```

```
    image1=ImageTk.PhotoImage(Image.open('dispp.png'))
```

```
    lbc=Canvas(window,width=400,height=200,bg="white")
```

```
    lbc.grid_propagate(0)
```

```
    lbc.create_image(0, 0 ,anchor=NW,image=image1)
```

```
    lbc.grid(column=0,row=0)
```

```
    lb1 = Label(lbc, text="enter credentials", font=("Arial Bold", 15),bg="White")
```

```
    lb1.grid(column=0, row=0)
```



```
txt1 = Entry(lbc, width=25)
txt1.grid(column=1, row=3,pady=2)

txt2 = Entry(lbc, width=25)
txt2.grid(column=1, row=5)

txt1.insert(0, "Administrator")
txt2.insert(0, "passwd")

x = (txt1.get(),txt2.get())

def check():
    try:
        int(txt2.get())
        if (int(txt2.get()),(txt1.get())) in select():
            nam=txt1.get()
            ID=int(txt2.get())
            doctor(nam,ID)
        elif (txt1.get(),txt2.get()) in search_all():
            patient(txt1.get(),txt2.get())
        else:
            txt1.delete(0,20)
            txt2.delete(0,20)
            txt1.insert(0, "Administrator")
            txt2.insert(0, "incorrect passwd")

    except ValueError:
```

```
if txt1.get() == "guest":
    patient("guest")
elif txt1.get() == "Administrator" and txt2.get() == "passwd":
    post_lg("Administrator..",prev)
elif (txt1.get(),txt2.get()) in search_all():
    patient(txt1.get())
else:
    txt1.delete(0,20)
    txt2.delete(0,20)
    txt1.insert(0, "Administrator")
    txt2.insert(0, "incorrect passwd")
```

```
btn = Button(lbc, text="submit", command=check,width=10)
```

```
btn.grid(column=1,row=8,pady=2)
```

```
window.config(bg="White")
```

```
window.geometry('350x150')
```

```
window.mainloop()
```

```
#Administrator Mode Options Menu
```

```
def post_lg(x,win):
```

```
    window1 = Toplevel(win)
```

```
    window1.title("depatments")
```

```
    image2=ImageTk.PhotoImage(Image.open('dispp.png'))
```

```
    lbc1=Canvas(window1,width=400,height=200,bg="white")
```

```
lbc1.grid_propagate(0)
```

```
lbc1.create_image(0, 0, anchor=NW, image=image2)
```

```
lbc1.grid(column=0, row=0)
```

```
lb3 = Label(lbc1, text="enter your requirement", font=("Arial Bold", 10), bg="white")
```

```
lb3.grid(column=0, row=2)
```

```
lb4 = Label(lbc1, text="welcome "+x, font=("Segoe Print", 15), bg="white")
```

```
lb4.grid(column=0, row=0)
```

```
click = StringVar(window1)
```

```
click.set("accounts")
```

```
drop = OptionMenu(lbc1, click, "accounts", "appointments", "employee data",  
"pharmacy", "cashier")
```

```
drop.config(width=11)
```

```
drop.grid(column=1, row=2)
```

```
def select():
```

```
    if click.get() == "accounts":
```

```
        acc(win)
```

```
    if click.get() == "appointments":
```

```
        pre_appoint()
```

```
    if click.get() == "employee data":
```

```
        empl(win)
```

```
    if click.get() == "pharmacy":
```

```
    pharm(win)
    if click.get() == "cashier":
        cashier()

b1 = Button(lbc1, text="select", command=select,width=14)
b1.grid(column=1, row=4)

window1.config(bg="white")
window1.geometry('415x150')
window1.mainloop()
```

## File#3 GUI2

```
from appointmanager1 import *
from appointmanager2 import *
from tkinter import *
from f1 import *
from f3 import *
from f2 import *
from f4 import *
from f5 import *
from PIL import ImageTk, Image
from tkinter import messagebox
from GUI3 import *
import tkinter.font as TkFont
from Acc_Link import *

def acc(win):
    window3 = Toplevel(win)
    window3.title("accounts")

    image4=ImageTk.PhotoImage(Image.open('bg.png'))

    lbc5=Canvas(window3,width=920,height=600,bg="white")
    lbc5.create_image(0, 0 ,anchor=NW,image=image4)
    lbc5.grid(column=0,row=0)
    lbc5.grid_propagate(0)

    my_font=TkFont.Font(window3,family="Monaco",size=10)
```

```
framea2=LabelFrame(lbc5,width=440,height=290)
```

```
framea2.config(bg="white")
```

```
framea2.grid(column=2,row=2,padx=20,pady=20)
```

```
framea2.grid_propagate(0)
```

```
framea3=LabelFrame(lbc5,width=350,height=290)
```

```
framea3.grid(column=3,row=2)
```

```
framea3.config(bg="white")
```

```
framea3.grid_propagate(0)
```

```
image3=ImageTk.PhotoImage(Image.open('images01.png'))
```

```
lbc3=Canvas(framea2,width=500,height=400,bg="white")
```

```
lbc3.create_image(0, 0 ,anchor=NW,image=image3)
```

```
lbc3.grid(column=0,row=0)
```

```
lbc3.grid_propagate(0)
```

```
lbc4=Canvas(framea3,width=400,height=400,bg="white")
```

```
lbc4.create_image(0, 0 ,anchor=NW,image=image3)
```

```
lbc4.grid(column=0,row=0)
```

```
lbc4.grid_propagate(0)
```

```
lb3 = Label(lbc3, text="select the account", font=("Arial Bold", 15),bg="white")
```

```
lb3.grid(column=2, row=2)
```

```
lba3 = Label(lbc4, text="updating account", font=("Arial Bold", 15),bg="white")
```

```
lba3.grid(column=2, row=2)
```

```
lb4 = Label(lbc5, text="Accounts Department", font=("Segoe Print", 25),bg="snow")
```

```
lb4.grid(column=2, row=0,columnspan=3)
```

```
txt4 = Entry(lbc3, width=30)
```

```
txt4.grid(column=2, row=4)
```

```
txt5 = Entry(lbc3, width=30)
```

```
txt5.grid(column=2, row=6,padx=3,pady=3)
```

```
txt6 = Entry(lbc4, width=30)
```

```
txt6.grid(column=2, row=12, padx=5, pady=5)
```

```
teexta = Entry(lbc4, width=30)
```

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

```
lb5 = Label(lbc3, text="account no.",bg="white")
```

```
lb5.grid(column=1, row=4)
```

```
lba = Label(lbc4, text="account no.",bg="white")
```

```
lba.grid(column=1, row=4,padx=5,pady=5)
```

```
click1 = StringVar(window3)
click1.set("col. value")

drop1 = OptionMenu(lbc4, click1,"acc_due", "acc_paid")
drop1.config(width=10)
drop1.grid(column=1, row=12)

lbx = Label(lbc3, text="new account ??", font=("Arial Bold", 10),bg="white")
lbx.grid(column=1, row=22)

lb6 = Label(lbc3, text="name search",bg="white")
lb6.grid(column=1, row=6)

lb7 = Label(lbc4, text="enter the value to update", font=("Arial Bold", 10),bg="white")
lb7.grid(column=2, row=10)

lbf1 = Label(lbc3, text="search results:-", font=("Arial Bold", 10),bg="white")
lbf1.grid(column=1, row=18)

frame=LabelFrame(lbc3,width=350,height=50)
frame.grid(column=2,row=18)

scroll=Scrollbar(frame,orient=VERTICAL)
listb=Listbox(frame,height=5,width=38,font=my_font,yscrollcommand=scroll.set)

scroll.config(command=listb.yview)
scroll.pack(side=RIGHT,fill=Y)
```



```
listb.pack()

gap="|"
lo=["acno.", "name", "Paid", "Due"]
listb.insert(END, f"{lo[0]:5}{gap}{lo[1]:>12}{gap}{lo[2]:>8}{gap}{lo[3]:>8}")
listb.insert(END, '-----')

def search1():
    nonlocal listb
    if txt4.get()!="":
        l=search01(txt4.get())
        listb.insert(END,l)
    elif txt5.get()!="":
        l=search02(txt5.get())
        for i in l:
            listb.insert(END,i)

def update01():
    if click1.get()=="acc_due":
        up_total(teexta.get(),txt6.get())
    if click1.get()=="acc_paid":
        up_paid(teexta.get(),txt6.get())
def clear():
    listb.delete(2,END)

b1 = Button(lbc3, text="select",command=search1, width=15)
```

```
b1.grid(column=2, row=8,padx=10,pady=10)

bu1 = Button(lbc4, text="update(acc_no. only)",command=update01, width=15)
bu1.grid(column=2, row=16)

by = Button(lbc3, text="sign in", command=new_ac, width=15)
by.grid(column=2, row=22)

bcl = Button(lbc3, text="Clear", command=clear, width=15)
bcl.grid(column=2, row=20,pady=5)

window3.config(bg="white")
window3.geometry('845x390')
window3.mainloop()

def pharm(win):
    window4 = Toplevel(win)
    window4.title("pharmacy")

    my_font=TkFont.Font(window4,family="Monaco",size=10)

    image4=ImageTk.PhotoImage(Image.open('newph.png'))

    lbc6=Canvas(window4,width=600,height=600,bg="white")
    lbc6.create_image(0, 0 ,anchor=NW,image=image4)
    lbc6.grid(column=0,row=0)
```

```
lbc6.grid_propagate(0)
```

```
lba8 = Label(lbc6, text="Pharmacy database", font=("Arial Bold", 15),bg="white")
```

```
lba8.grid(column=2, row=2)
```

```
lb8 = Label(lbc6, text="Pharmacy Logs directory", font=("Segoe Print", 20),bg="white")
```

```
lb8.grid(column=2, row=0)
```

```
txt7 = Entry(lbc6, width=30)
```

```
txt7.grid(column=2, row=4)
```

```
txt8 = Entry(lbc6, width=30)
```

```
txt8.grid(column=2, row=6)
```

```
txt9 = Entry(lbc6, width=30)
```

```
txt9.grid(column=2, row=10, padx=5, pady=5)
```

```
lb9 = Label(lbc6, text="item identity no.",bg="white")
```

```
lb9.grid(column=1, row=4)
```

```
click2 = StringVar(lbc6)
```

```
click2.set("Quantity")
```

```
drop2 = OptionMenu(lbc6, click2,"1","2","3","4","5","6","7","8")
```

```
drop2.config(width=7)
```

```
drop2.grid(column=1, row=10)
```

```
lb10 = Label(lbc6, text="name search",bg="white")
lb10.grid(column=1, row=6)

lb11 = Label(lbc6, text="Enter the Acc. no.", font=("Arial Bold", 10),bg="white")
lb11.grid(column=2, row=9)

lb1 = Label(lbc6, text="search results:-", font=("Arial Bold", 10),bg="white")
lb1.grid(column=1, row=7)

lb1 = Label(lbc6)
lb1.grid(column=2, row=13)

frameph=LabelFrame(lbc6,width=350,height=50)
frameph.grid(column=2,row=7)

scrollph=Scrollbar(frameph,orient=VERTICAL)
listbph=Listbox(frameph,height=5,width=50,font=my_font,yscrollcommand=scrollph.set)

scrollph.config(command=listbph.yview)
scrollph.pack(side=RIGHT,fill=Y)
listbph.pack()

gap="|"
lo=["ID","Name","Price"]
listbph.insert(END,f'{lo[0]:>5}{gap}{lo[1]:>30}{gap}{lo[2]:>10}')
listbph.insert(END,'-----')
```

```
def searchp():
    nonlocal listbph
    listbph.delete(2,END)
    if txt7.get()!="":
        l=searchp1(txt7.get())
        for i in l:
            listbph.insert(END,i)

    elif txt8.get()!="":
        l=searchp2(txt8.get())
        for i in l:
            listbph.insert(END,i)
def BILLP():
    try:
        l=search_alltr()
        flag=0
        for i in l:
            if int(txt9.get())==i[1]:
                flag=1
                break
        if flag==0:
            txt9.delete(first=0,last=25)
            txt9.insert(0,"ACCOUNT NOT PRESENT")
            return None
    except:
```

```
txt9.delete(first=0,last=25)
txt9.insert(0,"IMPROPER ACCOUNT")
return None
```

```
l=listbph.get(ANCHOR)
newl=l.split("|")
```

```
if check_qua(newl[0].lstrip(),int(click2.get())):
    up_totalIn2(int(txt9.get()),int(newl[2].lstrip())*int(click2.get()))
    red_qua(newl[0].lstrip(),click2.get())
```

```
insert_TR(int(txt9.get()),newl[1].lstrip(),click2.get(),int(newl[2].lstrip())*int(click2.get()),"D"
)
```

```
else:
    txt9.delete(first=0,last=20)
    txt9.insert(0,"QTY UNAVILABLE")
```

```
def newmed():
    up_med()
```

```
b2 = Button(lbc6, text="Search",command=searchp,width=15)
b2.grid(column=2, row=8)
```

```
b3 = Button(lbc6, text="Add to Acc",command=BILLP,width=15)
b3.grid(column=2, row=13,pady=7)
```

```
b4 = Button(lbc6, text="New Med",command=newmed,width=15)
```

```
b4.grid(column=2, row=16,pady=7)
```

```
window4.geometry('600x400')
```

```
window4.mainloop()
```

```
def empl(win):
```

```
    window5 = Toplevel(win)
```

```
    window5.title("employee data")
```

```
    my_font=TkFont.Font(window5,family="Monaco",size=10)
```

```
    framee2=LabelFrame(window5,width=550,height=310)
```

```
    framee2.grid(column=2,row=2,padx=20,pady=20)
```

```
    framee2.grid_propagate(0)
```

```
    framee3=LabelFrame(window5,width=400,height=310)
```

```
    framee3.grid(column=3,row=2)
```

```
    framee3.grid_propagate(0)
```

```
    lb12 = Label(framee2, text="select the employee", font=("Arial Bold", 15))
```

```
    lb12.grid(column=2, row=2)
```

```
    lb13 = Label(window5, text="Employees Data..", font=("Segoe Print", 25))
```

```
    lb13.grid(column=2, row=0,columnspan=3)
```

```
    lbe13 = Label(framee3, text="Update Record", font=("Arial Bold", 15))
```

```
lbe13.grid(column=2, row=4)
```

```
txt10 = Entry(framee2, width=30)
```

```
txt10.grid(column=2, row=4)
```

```
txt11 = Entry(framee2, width=30)
```

```
txt11.grid(column=2, row=6)
```

```
txt12 = Entry(framee3, width=30)
```

```
txt12.grid(column=2, row=12)
```

```
txte12 = Entry(framee3, width=30)
```

```
txte12.grid(column=2, row=8)
```

```
lb14 = Label(framee2, text="doctor ID")
```

```
lb14.grid(column=0, row=4)
```

```
click3 = StringVar(window5)
```

```
click3.set("column")
```

```
drop3 = OptionMenu(framee3, click3,"salary","department")
```

```
drop3.config(width=10)
```

```
drop3.grid(column=0, row=12)
```

```
lb15 = Label(framee2, text="Name Search")
```

```
lb15.grid(column=0, row=6)
```

```
lbe15 = Label(framee3, text="Doctor Id")
```



```
lbe15.grid(column=0, row=8)

lb16 = Label(framee3, text="enter the value", font=("Arial Bold", 10))
lb16.grid(column=2, row=10)

lb17 = Label(framee2, text="new employee ??", font=("Arial Bold", 10))
lb17.grid(column=2, row=20)

lbf1 = Label(framee2, text="search results:-", font=("Arial Bold", 10))
lbf1.grid(column=0, row=18)

lbf = Label(framee2)
lbf.grid(column=2, row=21)

framee=LabelFrame(framee2,width=300,height=50)
framee.grid(column=2,row=18)

scrolle=Scrollbar(framee,orient=VERTICAL)
listbe=Listbox(framee,height=5,width=52,font=my_font,yscrollcommand=scrolle.set)

scrolle.config(command=listbe.yview)
scrolle.pack(side=RIGHT,fill=Y)
listbe.pack()

gap="|"
le=["Dc_Id","Name","Salary","Department"]
listbe.insert(END,f"{le[0]:5}{gap}{le[1]:>15}{gap}{le[2]:>10}{gap}{le[3]:>15}")
```

```
listbe.insert(END,'-----')
```

```
def searche():
```

```
    nonlocal listbe
```

```
    if txt10.get()!="":
```

```
        l=searche1(txt10.get())
```

```
        listbe.insert(END,l)
```

```
    elif txt11.get()!="":
```

```
        l=searche2(txt11.get())
```

```
        for i in l:
```

```
            listbe.insert(END,i)
```

```
def update02():
```

```
    if click3.get()=="department":
```

```
        up_feild(int(txte12.get()),txt12.get())
```

```
    if click3.get()=="salary":
```

```
        up_salary(int(txte12.get()),txt12.get())
```

```
def cleare():
```

```
    listbe.delete(2,END)
```

```
b3 = Button(framee2, text="select",command=searche,width=15)
```

```
b3.grid(column=2, row=8,pady=10)
```

```
bu2 = Button(framee3, text="update(acc no.)",command=update02, width=15)
```

```
bu2.grid(column=2, row=14)
```

```
b4 = Button(framee2, text="sign in",command=new__empl,width=15)
b4.grid(column=2, row=21,pady=10)

bcle = Button(framee2, text="Clear", command=cleare, width=15)
bcle.grid(column=2, row=19,pady=5)

window5.geometry('1000x400')
window5.mainloop()

def pre__appoint():
    windowx1 = Toplevel()
    windowx1.title("appointment")

    image4=ImageTk.PhotoImage(Image.open('dispp.png'))

    lbo5=Canvas(windowx1,width=920,height=600,bg="white")
    lbo5.create__image(0, 0 ,anchor=NW,image=image4)
    lbo5.grid(column=0,row=0)
    lbo5.grid_propagate(0)

    lbx3 = Label(lbo5, text="enter your requirement", font=("Arial Bold", 10))
    lbx3.grid(column=0, row=2)

    lbx4 = Label(lbo5, text="The Appointment Manager", font=("Segoe Print", 15))
    lbx4.grid(column=0, row=0)

    clickx1 = StringVar(windowx1)
```

```
clickx1.set("Create")
```

```
dropx = OptionMenu(lbo5, clickx1, "Create", "Search", "Delete", "Update")
```

```
dropx.config(width=11)
```

```
dropx.grid(column=1, row=2)
```

```
def selectx1():
```

```
    if clickx1.get() == "Create":
```

```
        appointcr()
```

```
    if clickx1.get() == "Delete":
```

```
        appointde()
```

```
    if clickx1.get() == "Search":
```

```
        appointse()
```

```
    if clickx1.get() == "Update":
```

```
        appointup()
```

```
bx1 = Button(lbo5, text="Select", command=selectx1,width=14)
```

```
bx1.grid(column=1, row=4)
```

```
windowx1.geometry('420x150')
```

```
windowx1.mainloop()
```

```
def patient(nam,ID):
```

```
    window7 = Toplevel()
```

```
    window7.title("patient")
```

```
    my_font=TkFont.Font(window7,family="Monaco",size=10)
```

```
framep1=LabelFrame(window7,width=500,height=250,padx=5,pady=5,bg='white')
```

```
framep1.grid(column=0,row=2,padx=10,pady=10)
```

```
framep1.grid_propagate(0)
```

```
lbp1 = Label(window7, text=" ",bg='white')
```

```
lbp1.grid(column=1, row=2)
```

```
framep2=LabelFrame(window7,width=500,height=250,bg='white')
```

```
framep2.grid(column=2,row=2)
```

```
framep3=LabelFrame(window7,width=500,height=250,bg='white')
```

```
framep3.grid(column=0,row=4)
```

```
framep4=LabelFrame(window7,width=500,height=250,bg='white')
```

```
framep4.grid(column=2,row=4)
```

```
framep2.grid_propagate(0)
```

```
framep3.grid_propagate(0)
```

```
framep4.grid_propagate(0)
```

```
lbpnam = Label(window7,bg='white', text=("welcome to the portal, "+nam),font=("Arial  
Bold",13))
```

```
lbpnam.grid(column=0, row=1)
```

```
lbp2 = Label(window7,bg='white',text="Patients....",font=("Segoe Print",25))
```

```
lbp2.grid(column=0, row=0)
```

```
lbp3 = Label(window7, text="Management....",font=("Segoe Print",25 ),bg='white')
```

```
lbp3.grid(column=2, row=0)
```

```
lbp4 = Label(framep1, text="Appointments",font=("Arial Bold",15),bg='white')
```

```
lbp4.grid(column=0, row=0)
```

```
lbp5 = Label(framep2, text="Accounts",font=("Arial Bold",15),bg='white')
```

```
lbp5.grid(column=0, row=0)
```

```
lbp6 = Label(framep3, text="Prescriptions",font=("Arial Bold",15),bg='white')
```

```
lbp6.grid(column=0, row=0)
```

```
lbp7 = Label(framep4, text="Doctors",font=("Arial Bold",15),bg='white')
```

```
lbp7.grid(column=0, row=0)
```

```
# Accounts Frame
```

```
framep_acc41=LabelFrame(framep2,width=250,height=50)
```

```
framep_acc41.grid(column=2,row=4)
```

```
framep_acc41.grid_propagate(0)
```

```
scrollp_acc=Scrollbar(framep_acc41,orient=VERTICAL)
```

```
listbp_acc=Listbox(framep_acc41,height=5,width=40,font=my_font,yscrollcommand=scrollp_acc.set)
```

```
scrollp_acc.config(command=listbp_acc.yview)
```

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

```
listbp_acc.pack()

gap="|"

le=["PC_ID","NAME","DUE","PAID"]

listbp_acc.insert(END,f'{le[0]:>5}{gap}{le[1]:>12}{gap}{le[2]:>8}{gap}{le[3]:>8}')

listbp_acc.insert(END,'-----')

if searchLink(nam):
    for i in searchLink(nam):
        l=search02(i)
        listbp_acc.insert(END,l)
else:
    l=search02(nam)
    listbp_acc.insert(END,l)

def LINK(nam):
    linkL(nam)

bp2_acc = Button(framep2, text="Link acc",width=15,command=lambda: LINK(nam))
bp2_acc.grid(column=2,row=6,pady=10)

# Doctors Frame

lbpa4 = Label(framep4, text="name search",bg='white')
```

```
lbpa4.grid(column=0, row=2)

txta4 = Entry(framep4, width=30)
txta4.grid(column=2, row=2,pady=10)

lb4 = Label(framep4, text="search results:-", font=("Arial Bold", 10),bg='white')
lb4.grid(column=0, row=4)

framep41=LabelFrame(framep4,width=250,height=50)
framep41.grid(column=2,row=4)
framep41.grid_propagate(0)

scrollp=Scrollbar(framep41,orient=VERTICAL)
listbp=Listbox(framep41,height=5,width=40,font=my_font,yscrollcommand=scrollp.set)

scrollp.config(command=listbp.yview)
scrollp.pack(side=RIGHT,fill=Y)

listbp.pack()
gap="|"
le=["Dc_Id","Name","Department"]

listbp.insert(END,f'{le[0]:>5}{gap}{le[1]:>15}{gap}{le[2]:>15}')
listbp.insert(END,'-----')

def searchpat2():
    nonlocal listbp
```



```
if txta4.get()!="":
```

```
    l=searche4(txta4.get())
```

```
    listbp.insert(END,l)
```

```
bp2 = Button(framep4, text="Search",width=15,command=searchpat2)
```

```
bp2.grid(column=2,row=6,pady=10)
```

```
# Appointments Frame
```

```
txtp13 = Entry(framep1, width=30)
```

```
txtp13.grid(column=1, row=4,pady=10)
```

```
lbp10 = Label(framep1, text="patient id",bg='white')
```

```
lbp10.grid(column=0, row=4)
```

```
framep11=LabelFrame(framep1,width=250,height=50)
```

```
framep11.grid(column=0,row=6,columnspan=3)
```

```
framep11.grid_propagate(0)
```

```
scrollp01=Scrollbar(framep11,orient=VERTICAL)
```

```
listbp01=Listbox(framep11,height=5,width=55,font=my_font,yscrollcommand=scrollp01.set)
```

```
scrollp01.config(command=listbp01.yview)
```

```
scrollp01.pack(side=RIGHT,fill=Y)
```

```
listbp01.pack()
```

```
gap=" | "  
lo=["Name","Doctor","Date","Time"]  
listbp01.insert(END,f'{lo[0]:>10}{gap}{lo[1]:>10}{gap}{lo[2]:>10}{gap}{lo[3]:>13}')  
listbp01.insert(END,'-----')  
  
def choosep01():  
    l=searcha(txtp13.get())  
    listbp01.insert(END,l)  
def clearap01():  
    listbp01.delete(2,END)  
  
bp11 = Button(framep1, text="search",command=choosep01,width=10)  
bp11.grid(column=1,row=8,pady=20)  
  
#Prescripts  
  
labell=Label(framep3,text="Choose prescripts",font=("Arial Bold",10),bg='white')  
labell.grid(column=0,row=1)  
  
txtp13 = Entry(framep3, width=30)  
txtp13.grid(column=2, row=2,pady=5)  
  
txtp14 = Entry(framep3, width=30)  
txtp14.grid(column=2, row=3,pady=5)  
  
labell2=Label(framep3,text="Date:-",font=("Arial Bold",10),bg='white')
```

```
labell2.grid(column=0,row=2)

labell1=Label(framep3,text="Doctor:-",font=("Arial Bold",10),bg='white')
labell1.grid(column=0,row=3)

def prescript():
    prescrip__open__pat(txtpr14.get(),ID,txtpr13.get())

bpr11 = Button(framep3, text="Search",command=prescript)
bpr11.grid(column=2,row=8,pady=10)

window7.config(bg='white')
window7.geometry('1000x600')
window7.mainloop()

def doctor(nam,ID):
    windowd=Toplevel()
    windowd.title("Doctors")

    imagec4=ImageTk.PhotoImage(Image.open('docc.png'))
    lbl5=Canvas(windowd,width=1350,height=800,bg="springgreen1")
    lbl5.grid_propagate(0)

    lbl5.create_image(0, 0 ,anchor=NW,image=imagec4)
    lbl5.grid(column=0,row=0)

    lbl=Label(lbl5,text="",font=("Segoe Print",20),bg="springgreen1",fg="white")
```

```
lbld.grid(column=10,row=0,columnspan=4,pady=20)
```

```
framed1=LabelFrame(lbld5,width=500,height=150)
```

```
framed1.grid(column=4,row=1,padx=10,columnspan=2,pady=10)
```

```
framed1.grid_propagate(0)
```

```
framed2=LabelFrame(lbld5,width=500,height=305)
```

```
framed2.grid(column=4,row=2,padx=10,columnspan=2,pady=10)
```

```
framed2.grid_propagate(0)
```

```
lbld1=Label(framed1,text="PRESCRIPTION WRITER",font=("Arial Bold",10))
```

```
lbld1.grid(column=3,row=1,columnspan=2)
```

```
lblc1=Label(framed1,text="ACCOUNT NO.   ",font=("Arial Bold",10))
```

```
lblc1.grid(column=2,row=2,padx=10)
```

```
lblc01=Label(framed1,text="Date(open)   ",font=("Arial Bold",10))
```

```
lblc01.grid(column=2,row=3,padx=10)
```

```
lblc5=Label(framed2,text="CHANGE TIME AVAIL",font=("Arial Bold",10))
```

```
lblc5.grid(column=4,row=3,columnspan=3)
```

```
lblc2=Label(framed2,text="LEAVE TIME:-   ",font=("Arial Bold",10))
```

```
lblc2.grid(column=3,row=4)
```

```
lblc3=Label(framed2,text="ARRIVE TIME:-  ",font=("Arial Bold",10))
```

```
lblc3.grid(column=3,row=5)
```

```
lblc6=Label(framed2,text="DATE:-    ",font=("Arial Bold",10))
```

```
lblc6.grid(column=3,row=6)
```

```
lblc4=Label(lbl5,text="THANK YOU",font=("Arial Bold",15))
```

```
lblc4.grid(column=4,row=12)
```

```
txt1 = Entry(framed1, width=40)
```

```
txt1.grid(column=3, row=2,pady=10,columnspan=2)
```

```
txt1.insert(0,"100xx")
```

```
txt01 = Entry(framed1, width=40)
```

```
txt01.grid(column=3, row=3,pady=10,columnspan=2)
```

```
txt01.insert(0,"DD-MM-YYYY")
```

```
txt2 = Entry(framed2, width=30)
```

```
txt2.grid(column=4, row=4,pady=10,columnspan=3)
```

```
txt3 = Entry(framed2, width=30)
```

```
txt3.grid(column=4, row=5,pady=10,columnspan=3)
```

```
txt4 = Entry(framed2, width=30)
```

```
txt4.grid(column=4, row=6,pady=10,columnspan=3)
```

```
my_font=TkFont.Font(lbl5,family="Monaco",size=10)
```

```
framed=LabelFrame(lbld5,width=600,height=720)
framed.grid(column=0,row=1,rowspan=20,columnspan=2,padx=10)
framed.grid_propagate(0)

scroll=Scrollbar(framed,orient=VERTICAL)
listbd=Listbox(framed,height=32,width=80,font=my_font,yscrollcommand=scroll.set)

scroll.config(command=listbd.yview)
scroll.pack(side=RIGHT,fill=Y)

listbd.insert(END,"-----TODAY'S
APPOINTMENTS-----")
listbd.pack()

def presc_win(x,y):
    try:
        lm=search_alltr()
        flag=0
        for i in lm:
            if int(txt1.get())==i[1]:
                flag=1
                break
        if flag==0:
            txt1.delete(first=0,last=25)
            txt1.insert(0,"ACCOUNT NOT PRESENT")
        return None
```

```
except:
```

```
    txt1.delete(first=0,last=25)
```

```
    txt1.insert(0,"IMPROPER ACCOUNT")
```

```
    return None
```

```
prescripwr(y,x)
```

```
def appoint_disp(k):
```

```
    n=searchappointments(ID)
```

```
    for i in n:
```

```
        listbd.insert(END,i)
```

```
def appoint_change(k,l,n):
```

```
    write_dcc(k,l,n)
```

```
def presc_op(ID,nam):
```

```
    try:
```

```
        lm=search_alltr()
```

```
        flag=0
```

```
        for i in lm:
```

```
            if int(txt1.get())==i[1]:
```

```
                flag=1
```

```
                break
```

```
    if flag==0:
```

```
        txt1.delete(first=0,last=25)
```

```
        txt1.insert(0,"ACCOUNT NOT PRESENT")

        return None

except:

    txt1.delete(first=0,last=25)

    txt1.insert(0,"IMPROPER ACCOUNT")

    return None


try:

    split=txt01.get().split("-")

    split[2]

    if len(split)!=3:

        return None

except:

    txt01.delete(0,30)

    txt01.insert(0,"WRONG FORMAT")

    return None


prescripop(nam,ID,txt01.get())


bpc1 = Button(framed1, text="Create Prescript",command=lambda:
presc_win(txt1.get(),nam),width=15)
bpc1.grid(column=3,row=4,pady=10)


bpc4 = Button(framed1, text="Open Prescript",command=lambda:
presc_op(txt1.get(),nam),width=15)
bpc4.grid(column=4,row=4,pady=10)
```



```
bpc2 = Button(lbld5, text="Appointments",command=lambda:
appoint_disp(ID),width=15)
bpc2.grid(column=1,row=22,pady=10,columnspan=1)

bpc3 = Button(framed2, text="CHANGE",command=lambda:
appoint_change(ID,txtid3.get()+" - "+txtid2.get(),txtid4.get()),width=15)
bpc3.grid(column=4,row=7,pady=10,columnspan=3)


windowd.geometry("1350x750")
windowd.mainloop()

def cashier():
    windowc=Toplevel()
    windowc.title("Cashier")

    imagec4=ImageTk.PhotoImage(Image.open('cashie.png'))
    lblc5=Canvas(windowc,width=920,height=600,bg="violetred1")

    lblc5.create_image(0, 0 ,anchor=NW,image=imagec4)
    lblc5.grid(column=0,row=0)

    lblc=Label(lblc5,font=("Segoe Print",20),bg="orange",fg="white")
    lblc.grid(column=10,row=0,columnspan=6,pady=20)

    framec=LabelFrame(lblc5,width=600,height=720)
```

```
framec.grid(column=0,row=2,rowspan=20,padx=10)
framec.grid_propagate(0)

lblc1=Label(lblc5,text="ACCOUNT No.",font=("Arial Bold",10))
lblc1.grid(column=3,row=2,pady=20)

lblc2=Label(lblc5,text="PAYMENT Method",font=("Arial Bold",10))
lblc2.grid(column=3,row=4)

lblc3=Label(lblc5,text="AMOUNT RECIEVED",font=("Arial Bold",10))
lblc3.grid(column=3,row=5)

lblc4=Label(lblc5,text="THANK YOU",font=("Arial Bold",15))
lblc4.grid(column=4,row=12)

txtc1 = Entry(lblc5, width=30)
txtc1.grid(column=4, row=2,pady=10)

txtc2 = Entry(lblc5, width=30)
txtc2.grid(column=4, row=4,pady=10)

txtc3 = Entry(lblc5, width=30)
txtc3.grid(column=4, row=5,pady=10)

framec1=LabelFrame(lblc5,width=600,height=720)
framec1.grid(column=3,row=7,rowspan=5,columnspan=3)
framec1.grid_propagate(0)
```

```
def displayc():  
    listbc.delete(2,END)  
    listbc1.delete(2,END)  
  
    try:  
        lm=search_alltr()  
        flag=0  
        for i in lm:  
            if int(txtc1.get())==i[1]:  
                flag=1  
                break  
        if flag==0:  
            txtc1.delete(first=0,last=25)  
            txtc1.insert(0,"ACCOUNT NOT PRESENT")  
            return None  
    except:  
        txtc1.delete(first=0,last=25)  
        txtc1.insert(0,"IMPROPER ACCOUNT")  
        return None  
  
    l=searchTR02(txtc1.get())  
  
    for i in l[0]:  
        listbc.insert(END,i)
```

```
    for i in l[1]:
        listbc1.insert(END,i)

def payc():
    nonlocal txtc3
    try:
        int(txtc3.get())
    except:
        txtc3.delete(first=0,last=25)
        txtc3.insert(0,"IMPROPER INPUT")
        return None

    if int(txtc3.get())>=int(listbc.get(ANCHOR).split('|')[4].lstrip()):
        l=int(txtc3.get())-int(listbc.get(ANCHOR).split('|')[4].lstrip())

        txtc3.delete(first=0,last=20)
        txtc3.insert(0,str(l))

    up_paidIn(int(listbc.get(ANCHOR).split('|')[4].lstrip()),txtc1.get())
    up_paidTR(listbc.get(ANCHOR)[1:5])
    listbc.delete(ANCHOR)
    displayc()

bpc1 = Button(lblc5, text="Search",command=displayc,width=10)
bpc1.grid(column=4,row=3,pady=10)
```

```
bpc2 = Button(lblc5, text="PAY",command=payc,width=10)
bpc2.grid(column=4,row=6,pady=10)

my_font=TkFont.Font(lblc5,family="Monaco",size=10)

scrollc=Scrollbar(framec,orient=VERTICAL)
listbc=Listbox(framec,height=40,width=80,font=my_font,yscrollcommand=scrollc.set)

scrollc.config(command=listbc.yview)
scrollc.pack(side=RIGHT,fill=Y)

listbc.insert(END,"-----INVOICE-----")
listbc.pack()
gap="|"
i=("T_ID","ACCOUNT","DETAILS","QTY","PRICE")
listbc.insert(END,f"{i[0]:5}{gap}{i[1]:>18}{gap}{i[2]:^30}{gap}{i[3]:>5}{gap}{i[4]:>10}")

scrollc1=Scrollbar(framec1,orient=VERTICAL)
listbc1=Listbox(framec1,height=20,width=80,font=my_font,yscrollcommand=scrollc1.set)

scrollc1.config(command=listbc1.yview)
scrollc1.pack(side=RIGHT,fill=Y)

listbc1.insert(END,"-----PAYMENT HISTORY-----")
listbc1.pack()
listbc1.insert(END,f"{i[0]:5}{gap}{i[1]:>18}{gap}{i[2]:^30}{gap}{i[3]:>5}{gap}{i[4]:>10}")
```

```
windowc.geometry('1350x750')
```

```
windowc.mainloop()
```

## File#4 GUI3

```
from appointmanager1 import *
from tkinter import *
from f1 import *
from f3 import *
from f2 import *
from f4 import *
from f5 import *
from PIL import ImageTk, Image
from tkinter import messagebox
import tkinter.font as TkFont
from timemanager import *
from Acc_Link import *
from datetime import *
from prescript import *

def new_ac():
    window8 = Toplevel()
    window8.title("accounts")

    lb1x0 = Label(window8, text="new account",font=("Arial Bold",15))
    lb1x0.grid(column=0, row=0)

    lb1x1 = Label(window8, text="name")
    lb1x1.grid(column=0, row=4)

    lb1x2 = Label(window8, text="ammount due")
    lb1x2.grid(column=0, row=6)
```

```
lb1x3 = Label(window8, text="amount paid")
lb1x3.grid(column=0, row=8)

txtx1 = Entry(window8, width=30)
txtx1.grid(column=2, row=4)

txtx2 = Entry(window8, width=30)
txtx2.grid(column=2, row=6)

txtx3 = Entry(window8, width=30)
txtx3.grid(column=2, row=8)

txtx1.insert(0, "name")
txtx2.insert(0, "10000")
txtx3.insert(0, "10000")

def ins_ac():
    insert_acc(txtx1.get(),int(txtx3.get()),int(txtx2.get()))
    writepat(txtx1.get())
    insert_TR(convert(txtx1.get())[0][0],"ADMISSION","1","10000","D")
bx = Button(window8, text="submit", width=15, command=ins_ac)
bx.grid(column=2, row=10)

window8.geometry('320x200')
window8.mainloop()
```



```
def up_med():  
    win_las=Toplevel()  
    win_las.title("Update MEDS")  
  
    lab1win0 = Label(win_las, text="New Medicine",font=("Arial Bold",15))  
    lab1win0.grid(column=0, row=0)  
  
    lab1win1 = Label(win_las, text="Name")  
    lab1win1.grid(column=0, row=4)  
  
    lab1win2 = Label(win_las, text="Supplier")  
    lab1win2.grid(column=0, row=6)  
  
    lab1win3 = Label(win_las, text="Quantity")  
    lab1win3.grid(column=0, row=8)  
  
    lab1win4 = Label(win_las, text="Price")  
    lab1win4.grid(column=0, row=9)  
  
    textx1 = Entry(win_las, width=30)  
    textx1.grid(column=2, row=4)  
  
    textx2 = Entry(win_las, width=30)  
    textx2.grid(column=2, row=6)  
  
    textx3 = Entry(win_las, width=30)  
    textx3.grid(column=2, row=8)
```

```
textx4 = Entry(win_las, width=30)
textx4.grid(column=2, row=9)

lab1win6 = Label(win_las, text="Update Medicine",font=("Arial Bold",15))
lab1win6.grid(column=3, row=0)

lab1win7 = Label(win_las, text="ID")
lab1win7.grid(column=3, row=4)

textnx1 = Entry(win_las, width=30)
textnx1.grid(column=4, row=4)

textnx2 = Entry(win_las, width=30)
textnx2.grid(column=4, row=6)

click7 = StringVar(win_las)
click7.set("column")

drop1 = OptionMenu(win_las, click7,"PRICE", "QTY")
drop1.config(width=10)
drop1.grid(column=3, row=6)

def add_med():
    ins(textx1.get(),textx2.get(),textx4.get(),textx3.get())

def change_med():
    if click7.get()=="PRICE":
```

```
        up_medicine_price(textnx1.get(), textnx2.get())
    if click7.get()=="QTY":
        up_medicine_qty(textnx1.get(), textnx2.get())
b2 = Button(win_las, text="Add",command=add_med,width=15)
b2.grid(column=2, row=10,pady=8)

b3 = Button(win_las, text="Update",command=change_med,width=15)
b3.grid(column=4, row=8,pady=7)
```

```
win_las.geometry('700x250')
win_las.mainloop()
def new_empl():
    window9 = Toplevel()
    window9.title("employee")

    lab1x0 = Label(window9, text="new employee",font=("Arial Bold",15))
    lab1x0.grid(column=0, row=0)

    lab1x1 = Label(window9, text="name")
    lab1x1.grid(column=0, row=4)

    lab1x2 = Label(window9, text="medical lisc")
    lab1x2.grid(column=0, row=6)
```

```
lab1x3 = Label(window9, text="Arrival at clinic")
```

```
lab1x3.grid(column=0, row=8)
```

```
lab1x4 = Label(window9, text="Leave from clinic")
```

```
lab1x4.grid(column=0, row=9)
```

```
lab1x01 = Label(window9, text="Fees consult")
```

```
lab1x01.grid(column=0, row=10)
```

```
lab1x02 = Label(window9, text="salary")
```

```
lab1x02.grid(column=0, row=12)
```

```
lab1x03 = Label(window9, text="feild of study")
```

```
lab1x03.grid(column=0, row=14)
```

```
textx1 = Entry(window9, width=30)
```

```
textx1.grid(column=2, row=4)
```

```
textx2 = Entry(window9, width=30)
```

```
textx2.grid(column=2, row=6)
```

```
textx3 = Entry(window9, width=30)
```

```
textx3.grid(column=2, row=8)
```

```
textx4 = Entry(window9, width=30)
```

```
textx4.grid(column=2, row=9)
```

```
textx01 = Entry(window9, width=30)
```

```
textx01.grid(column=2, row=10)

textx02 = Entry(window9, width=30)
textx02.grid(column=2, row=12)

textx03 = Entry(window9, width=30)
textx03.grid(column=2, row=14)

textx1.insert(0, "name")
textx2.insert(0, "A0123456xx")
textx3.insert(0, "HH:mm")
textx4.insert(0, "HH:mm")

textx01.insert(0, "1000")
textx02.insert(0, "100000")
textx03.insert(0, "feild")

bex = Button(window9, text="submit", width=15, command=lambda:
new_employee(textx1.get(),textx2.get(),textx3.get(),textx4.get(),int(textx01.get()),float(textx0
2.get()),textx03.get()))
bex.grid(column=2, row=16)

window9.geometry('450x300')
window9.mainloop()

def appointde():
    windowx2 = Toplevel()
    windowx2.title("appointments")
```

```
image4=ImageTk.PhotoImage(Image.open('dispp.png'))

lbx5=Canvas(windowx2,width=920,height=600,bg="white")
lbx5.create_image(0, 0 ,anchor=NW,image=image4)
lbx5.grid(column=0,row=0)
lbx5.grid_propagate(0)

lbx18 = Label(lbx5, text="select the appointment", font=("Arial Bold", 15))
lbx18.grid(column=2, row=2)

lbx19 = Label(lbx5, text="Appointments...", font=("Segoe Print", 20))
lbx19.grid(column=2, row=0)

txtx13 = Entry(lbx5, width=30)
txtx13.grid(column=2, row=4)

lbx20 = Label(lbx5, text="appointment id")
lbx20.grid(column=1, row=4)

def choosex():
    deletea(int(txtx13.get()))

bx5 = Button(lbx5, text="delete",command=choosex)
bx5.grid(column=2, row=6)

windowx2.geometry('400x200')
```

```
windowx2.mainloop()
```

```
def appointse():
```

```
    windowx3 = Toplevel()
```

```
    windowx3.title("appointments")
```

```
    my_font=TkFont.Font(windowx3,family="Monaco",size=10)
```

```
    image4=ImageTk.PhotoImage(Image.open('dispp.png'))
```

```
    lbk5=Canvas(windowx3,width=920,height=600,bg="white")
```

```
    lbk5.create_image(0, 0 ,anchor=NW,image=image4)
```

```
    lbk5.grid(column=0,row=0)
```

```
    lbk5.grid_propagate(0)
```

```
    lbx318 = Label(lbk5, text="select the appointment", font=("Arial Bold", 15))
```

```
    lbx318.grid(column=2, row=2)
```

```
    lbx319 = Label(lbk5, text="Appointments...", font=("Segoe Print", 20))
```

```
    lbx319.grid(column=2, row=0)
```

```
    txtx313 = Entry(lbk5, width=30)
```

```
    txtx313.grid(column=2, row=4)
```

```
    lbx320 = Label(lbk5, text="patient id")
```

```
    lbx320.grid(column=1, row=4)
```

```
framea=LabelFrame(lbk5,width=350,height=50)
framea.grid(column=2,row=18)
scrolla=Scrollbar(framea,orient=VERTICAL)
listba=Listbox(framea,height=5,width=55,font=my__font,yscrollcommand=scrolla.set)
scrolla.config(command=listba.yview)
scrolla.pack(side=RIGHT,fill=Y)
listba.pack()
gap=" | "
lo=["Name","Doctor","Date","Time"]
listba.insert(END,f'{lo[0]:>10}{gap}{lo[1]:>10}{gap}{lo[2]:>10}{gap}{lo[3]:>13}')
listba.insert(END,'-----')

def choosex3():
    l=searcha(txtx313.get())
    listba.insert(END,l)
def clearap():
    listba.delete(2,END)

bx35 = Button(lbk5, text="search",command=choosex3,width=15)
bx35.grid(column=2, row=6,pady=5)
box35 = Button(lbk5, text="clear",command=clearap,width=15)
box35.grid(column=2, row=19,pady=5)

windowx3.geometry('540x300')
windowx3.mainloop()

def appointup():
```



```
windowx4 = Toplevel()
windowx4.title("appointments")

lbx418 = Label(windowx4, text="select the appointment", font=("Arial Bold", 15))
lbx418.grid(column=2, row=2)
lbx419 = Label(windowx4, text="Appointments...", font=("Segoe Print", 20))
lbx419.grid(column=2, row=0)
lbx420 = Label(windowx4, text="ID")
lbx420.grid(column=1, row=4)

txtx414 = Entry(windowx4, width=30)
txtx414.grid(column=2, row=4)

txtx413 = Entry(windowx4, width=30)
txtx413.grid(column=2, row=6)

clickx41 = StringVar(windowx4)
clickx41.set("time")

dropx4 = OptionMenu(windowx4, clickx41, "time", "status", "date")
dropx4.config(width=7)
dropx4.grid(column=1, row=6)

def choosex4():
    updatea(int(txtx414.get()),clickx41.get(),txtx413.get())

bx45 = Button(windowx4, text="update",command=choosex4)
```

```
bx45.grid(column=2, row=8)

windowx4.geometry('350x250')
windowx4.mainloop()

def invoice(a,b,c,d,e):
    res=Toplevel()
    res.title("Record")

    la=Label(res,text="Appointment Summary",font=("Arial Bold",15))
    la.grid(column=0,row=0,columnspan=2)

    la1=Label(res,text="Name:--",font=("Arial Bold",10))
    la1.grid(column=0,row=1)

    la2=Label(res,text="Doctor:--",font=("Arial Bold",10))
    la2.grid(column=0,row=2)

    la3=Label(res,text="Time:--",font=("Arial Bold",10))
    la3.grid(column=0,row=3)

    la4=Label(res,text="Date:--",font=("Arial Bold",10))
    la4.grid(column=0,row=4)

    la5=Label(res,text="Price:--",font=("Arial Bold",10))
    la5.grid(column=0,row=5)
```

```
la6=Label(res,text=a)
la6.grid(column=1,row=1)
```

```
la7=Label(res,text=b)
la7.grid(column=1,row=2)
```

```
la8=Label(res,text=c)
la8.grid(column=1,row=3)
```

```
la9=Label(res,text=d)
la9.grid(column=1,row=4)
```

```
la10=Label(res,text=e)
la10.grid(column=1,row=5)
```

```
res.geometry("250x150")
res.mainloop()
```

```
def appointcr():
```

```
    window6 = Toplevel()
    window6.title("appointments")
```

```
    image4=ImageTk.PhotoImage(Image.open('dispp.png'))
```

```
    lbn5=Canvas(window6,width=920,height=600,bg="white")
```

```
    lbn5.create_image(0, 0 ,anchor=NW,image=image4)
```

```
    lbn5.grid(column=0,row=0)
```

```
lbn5.grid_propagate(0)
```

```
my_font=TkFont.Font(window6,family="Monaco",size=10)
```

```
lb18 = Label(lbn5, text="select the appointment", font=("Arial Bold", 15))
```

```
lb18.grid(column=2, row=2)
```

```
lb19 = Label(lbn5, text="Appointments...", font=("Segoe Print", 20))
```

```
lb19.grid(column=2, row=0)
```

```
txt13 = Entry(lbn5, width=30)
```

```
txt13.grid(column=2, row=4)
```

```
txt14 = Entry(lbn5, width=30)
```

```
txt14.grid(column=2, row=6)
```

```
txt30 = Entry(lbn5, width=30)
```

```
txt30.grid(column=2, row=10)
```

```
txt31 = Entry(lbn5, width=30)
```

```
txt31.grid(column=2, row=12)
```

```
lb20 = Label(lbn5, text="Doctor ID")
```

```
lb20.grid(column=1, row=4)
```

```
lb21 = Label(lbn5, text="Patient ID")
```

```
lb21.grid(column=1, row=6)
```

```
lb31 = Label(lbn5, text="enter the date")
lb31.grid(column=1, row=10)

lb32 = Label(lbn5, text="status")
lb32.grid(column=1, row=12)

lb33 = Label(lbn5, text="time")
lb33.grid(column=1, row=16)

frama=LabelFrame(lbn5,width=350,height=50)
frama.grid(column=2,row=16)

scrollap=Scrollbar(frama,orient=VERTICAL)
listbap=Listbox(frama,height=5,width=25,font=my__font,yscrollcommand=scrollap.set)

scrollap.config(command=listbap.yview)
scrollap.pack(side=RIGHT,fill=Y)
listbap.pack()

gap="|"
loap=["acno.", "name", "due", "paid"]
listbap.insert(END,'-----')

def choose():
    listbap.delete(1,END)
    d=check__avail(txt13.get(),txt30.get())
    k=appoint__time(txt30.get(),txt13.get(),d[0],d[1])
```

```
    for i in k:
        listbap.insert(END,i)

def time_sel():
    x=listbap.get(ANCHOR)
    listbap.delete(ANCHOR)

    writea(txt14.get(),txt13.get(),x,txt30.get(),txt31.get())
    up_totalIn(int(txt13.get()),int(txt14.get()))

    insert_TR01(txt14.get(),"APPOINTMENT",txt13.get(),"D")
    l=invoiceg(int(txt13.get()),int(txt14.get()))

    invoice(l[2],l[0],x,txt30.get(),l[1])

b5 = Button(lbn5, text="search time",command=choose,width=10)
b5.grid(column=2, row=14,pady=5)

bsel = Button(lbn5, text="Create",command=time_sel,width=10)
bsel.grid(column=2, row=18,pady=5)

window6.geometry('400x330')
window6.mainloop()

def linkL(a):
    wind=Toplevel()
    wind.title("LINK")
```

```
lblink0=Label(wind,text="LINK>>>",font=("Arial Bold",15))
```

```
lblink0.grid(column=0,row=0)
```

```
lblink1=Label(wind,text="Enter link name")
```

```
lblink1.grid(column=0,row=4)
```

```
txtlin1 = Entry(wind, width=30)
```

```
txtlin1.grid(column=2, row=4)
```

```
def my_Link():
```

```
    writeLink(a,txtlin1.get())
```

```
blin = Button(wind, text="Link",command=my_Link,width=10)
```

```
blin.grid(column=2, row=6,pady=5)
```

```
wind.geometry('290x125')
```

```
wind.mainloop()
```

```
def prescripwr(I,ID):
```

```
    root=Toplevel()
```

```
    root.title("prescription")
```

```
    m=str(datetime.now())[10].split("-")
```

```
    DATE=""
```

```
    DATE=m[2]+"-"+m[1]+"-"+m[0]
```

```
txttt=Text(root,height=35,width=80)
txttt.grid(row=0,column=0)
txttt.insert(END,"Date:- "+DATE+"\n")
txttt.insert(END,"ID:- "+ID+"\n")
txttt.insert(END,"Doctor:- "+I+"\n")

def write__prescript(ID,DATE,I):
    presc_wr(ID,DATE,I,txttt.get(1.0,END))

bt=Button(root,text="Submit",command=lambda: write__prescript(ID,DATE,I),width=10)
bt.grid(row=1,column=0)

root.geometry('630x601')
root.mainloop()

def prescripop(I,ID,date):
    root1=Toplevel()
    root1.title("prescription")

    m=str(datetime.now())[10].split("-")

    DATE=""
    DATE=m[2]+"-"+m[1]+"-"+m[0]

    txttt=Text(root1,height=35,width=80)
    txttt.grid(row=0,column=0)
```



```
l=presc__se(ID,date,I)
for i in l:
    txttt.insert(END,i)
def save__prescript(ID,date,I):
    presc__wr(ID,date,I,txttt.get(1.0,END))

bt=Button(root1,text="Save",command=lambda: save__prescript(ID,date,I),width=10)
bt.grid(row=1,column=0)

root1.geometry('630x601')
root1.mainloop()

def prescrip__open__pat(I,ID,date):
    root1=Toplevel()
    root1.title("prescription")

    m=str(datetime.now()):[:10].split("-")

    DATE=""
    DATE=m[2]+"-"+m[1]+"-"+m[0]

    txttt=Text(root1,height=35,width=80)
    txttt.grid(row=0,column=0)
    l=presc__se(ID,date,I)
    for i in l:
        txttt.insert(END,i)
    def save__prescript(ID,date,I):
```

```
presc_wr(ID,date,I,txttt.get(1.0,END))

bt=Button(root1,text="Save",command=lambda: save_prescript(ID,date,I),width=10)
#bt.grid(row=1,column=0)

root1.geometry('630x601')
root1.mainloop()
```

File #5 appointmentmanager1

```
import csv
import datetime
import tkinter as tk
#importing the required modules
#Aliases for all the storage files
fn = 'appoint.csv'
dn = 'doctor.csv'
pn = 'patient.csv'
#Appointment Record Creator
def writea(b,c,d,e,g):
    l = []
    global fn
    with open(fn, 'a+') as f:

        csw = csv.writer(f, lineterminator='\n')
        f.seek(0)
        l = list(csv.reader(f))
        if len(l) == 0:
            a = 101
        else:
            a = int(l[-1][0]) + 1
        rec = [a,b,c,d,e,g]
        csw.writerow(rec)
        print("Appointment created sucessfully")

#Searching the Files
```

```
def reada():
    global fn
    global dn
    global pn
    rec = []
    hdr = 'AppId\tPatientId\tPatient Name\tDoctor Id\tDoctor
Name\tAppointDate\tAppointTime\tStatus'
    with open(fn, 'r') as f, open(dn, 'r') as d, open(pn, 'r') as p:
        csr = csv.reader(f)
        csrd = list(csv.reader(d))
        csrp = list(csv.reader(p))
        print(hdr)
        for i in csr:
            drnm = ""
            pnm = ""
            for j in csrp:
                if j[0] == i[1]:
                    pnm = j[1]
                    break
            for j in csrd:
                if j[0] == i[2]:
                    drnm = j[1]
                    break

            res=(i[0], '\t', i[1], '\t', pnm, '\t', i[2], '\t', drnm, '\t', i[3], '\t', i[4], '\t', i[5])
            print(res)
        return res
```

#Basically a single Search

```
def searcha(pid):
```

```
    global fn
```

```
    global dn
```

```
    global pn
```

```
    with open(fn, 'r') as f, open(dn, 'r') as d, open(pn, 'r') as p:
```

```
        csr = csv.reader(f)
```

```
        csrd = list(csv.reader(d))
```

```
        csrp = list(csv.reader(p))
```

```
        l=[]
```

```
        flag = False
```

```
        for i in csr:
```

```
            if i[1] == pid:
```

```
                flag = True
```

```
                l=i
```

```
                drnm = "
```

```
                pnm = "
```

```
                for j in csrp:
```

```
                    if j[0] == i[1]:
```

```
                        pnm = j[1]
```

```
                        pnm0=pnm.split()
```

```
                        break
```

```
                for j in csrd:
```

```
                    if j[0] == i[2]:
```

```
                        drnm = j[1]
```

```
                        drnm0=drnm.split()
```

```
break
```

```
if flag == False:
```

```
    res=('No Record')
```

```
    print (res)
```

```
    return res
```

```
else:
```

```
    gap=" | "
```

```
    t="Dr. "
```

```
    drnm0[1]=t+drnm0[1]
```

```
    res=(f'{pnm0[0]:>10}{gap}{drnm0[1]:>10}{gap}{l[4]:>10}{gap}{l[3]:>13}')
```

```
    print(res)
```

```
    return res
```

```
#Updating Values
```

```
def updatea(ID,s,val):
```

```
    global fn
```

```
    with open(fn, 'r') as f:
```

```
        flag = False
```

```
        csr = csv.reader(f)
```

```
        reclst = list(csr)
```

```
        for i in range(len(reclst)):
```

```
            if int(reclst[i][0]) == ID:
```

```
                print(reclst[i])
```

```
                flag = True
```

```
    if s == 'time':  
        reclst[i][3] = val  
    elif s == 'date':  
        reclst[i][4] = val  
    elif s == 'status':  
        reclst[i][5] = val
```

```
with open(fn, 'w') as f:  
    csw = csv.writer(f, lineterminator='\n')  
    csw.writerows(reclst)
```

```
if flag:  
    print('Record updated')  
else:  
    print('Record not found')
```

```
def deletea(ID):  
    global fn  
    with open(fn, 'r') as f:  
        flag = False  
        csr = csv.reader(f)  
        reclst = list(csr)  
        for i in range(len(reclst)):  
            if int(reclst[i][0]) == ID:  
                flag = True  
                reclst.pop(i)
```

```
        break

    with open(fn, 'w') as f:
        csw = csv.writer(f, lineterminator='\n')
        csw.writerows(reclst)

    if flag:
        print('Record deleted')
    else:
        print('Record not found')

def searchtime(did):
    global fn
    global dn
    global pn
    with open(fn, 'r') as f, open(dn, 'r') as d, open(pn, 'r') as p:
        csr = csv.reader(f)
        csrd = list(csv.reader(d))
        csrp = list(csv.reader(p))
        l=[]
        k=[]
        flag = False
        for i in csr:
            if i[2] == did:
                flag = True
                l.append([i[3],i[4],i[5]])

    return l
```



```
def searchappointments(did):  
    global fn  
    global dn  
    global pn  
    m=str(datetime.datetime.now())[10].split("-")  
    da=""  
    da=m[2]+"/"+m[1]+"/"+m[0]  
    with open(fn, 'r') as f, open(dn, 'r') as d, open(pn, 'r') as p:  
        csr = csv.reader(f)  
        csrd = list(csv.reader(d))  
        csrp = list(csv.reader(p))  
        l=[]  
        k=[]  
        flag = False  
        for i in csr:  
            if i[2] == str(did) and i[4]==da:  
                flag = True  
                gap="|"  
                l.append(f"{i[0]:>3}{gap}{i[1]:>5}{gap}{i[2]:>5}{gap}{i[3]:>15}{gap}{i[4]:>15}{gap}  
{i[5]:>15}")  
  
        return l
```

## File #6 Appointmentmanager2

```
import csv
import datetime
import tkinter as tk

fn = 'appoint.csv'
dn = 'doctor.csv'
pn = 'patient.csv'
Tn = 'Time__avail.csv'

def writedoc(b):
    l = []
    global dn
    with open(dn, 'a+') as f:

        csw = csv.writer(f, lineterminator='\n')
        f.seek(0)

        l = list(csv.reader(f))
        if len(l) == 0:
            a = 90001
        else:
            a = int(l[-1][0]) + 1
        rec = [a,b]
        csw.writerow(rec)
    return a
```

```
def writepat(b):  
    l = []  
    global pn  
    with open(pn, 'a+') as f:  
  
        csw = csv.writer(f, lineterminator='\n')  
        f.seek(0)  
  
        l = list(csv.reader(f))  
        if len(l) == 0:  
            a = 10001  
        else:  
            a = int(l[-1][0]) + 1  
        rec = [a,b]  
        csw.writerow(rec)  
    return a  
  
def write_dcc(k,m,n):  
    global Tn  
    with open(Tn,'a+') as f:  
        csw = csv.writer(f, lineterminator='\n')  
        f.seek(0)  
  
        l = list(csv.reader(f))  
        rec = [k,m,n]  
        csw.writerow(rec)
```

```
    return l

def read__dcc(k,n):
    global Tn
    with open(Tn,'r') as f:
        x=None
        l=list(csv.reader(f))
        for i in l:
            if i[0]==k and i[2]==n:
                x=i[1].split(" - ")
    return x
```

File #7 f1

```
from appointmanager2 import *
from tkinter import *
from sqlconnection import *

def new_employee(y, z, k, o, m, l, n):
    a=writedoc(y)
    cur.execute("insert into employee values(%s,%s,%s,%s,%s,%s,%s,%s)", (a, y, z, k, o, m, l,
n))
    con.commit()
    print("record saved successfully")

def gen(x, y, z):
    s1 = []
    cur.execute("select " + z + " from employee where " + y + "='%s'" % x)
    for l in cur:
        for i in l:
            s1.append(i)
    print(s1)

def select():
    cur.execute("select D_ID,NAME from employee")
    return cur.fetchall()
```

```
def searche1(x):  
    cur = con.cursor()  
    cur.execute("select D_ID,Name,salary,feild_of_practice from employee where  
D_ID="+x)  
    d=cur.fetchall()  
    st=""  
    gap="|"  
    for i in d:  
        st=f"{i[0]:>5}{gap}{i[1]:>15}{gap}{i[2]:>10}{gap}{i[3]:>15}"  
    print(st)  
    print("record updated successfully")  
    k=StringVar()  
    k.set(st)  
    return st  
  
def searche2(x):  
    cur = con.cursor()  
    cur.execute("select D_ID,Name,salary,feild_of_practice from employee where name =  
'%s'" %x)  
    d=cur.fetchall()  
    l=[]  
    for i in d:  
        st1=""  
        gap="|"  
        st1=f"{i[0]:>5}{gap}{i[1]:>15}{gap}{i[2]:>10}{gap}{i[3]:>15}"  
        l.append(st1)  
    print(st1)
```

```
k=StringVar()
k.set(st1)
return l

def searche3(x):
    cur = con.cursor()
    cur.execute("select D_ID,Name,feild_of__practice from employee where name = '%s'"
%x)
    d=cur.fetchall()
    st1=""
    l=[]
    for i in d:
        st1=""
        gap="|"
        st1=f"{i[0]:>5}{gap}{i[1]:>15}{gap}{i[2]:>15}"
        l.append(st1)
        print(st1)
    k=StringVar()
    k.set(st1)
    return l

def searche4(x):
    cur = con.cursor()
    cur.execute("select D_ID,Name,feild_of__practice from employee where name like
'%"+x+"%'")
    d=cur.fetchall()
    st1=""
```

```
l=[]
for i in d:
    st1=""
    gap="|"
    st1=f"{i[0]:>5}{gap}{i[1]:>15}{gap}{i[2]:>15}"
    l.append(st1)
    print(st1)
k=StringVar()
k.set(st1)
return l
```

```
def up_salary(x, y):
    cur = con.cursor()
    cur.execute("update employee set salary=" + y + " where D_ID=" + str(x))
    con.commit()
    print("record updated successfully")
```

```
def up_feild(a, b):
    cur = con.cursor()
    cur.execute("update employee set feild_of_practice = '"+b+"' where D_ID="+str(a))
    con.commit()
    print("record updated successfully")
```

```
def check_avail(a,t):
    cur.execute("select ARRIVETime,LEAVETime from employee where D_ID="+a)
```



```
d=cur.fetchall()
```

```
if read_dcc(a,t):
```

```
    return read_dcc(a,t)
```

```
else:
```

```
    return d[0]
```

```
def invoiceg(a,b):
```

```
    cur = con.cursor()
```

```
    cur.execute("select Name,Fees from employee where D_ID="+str(a))
```

```
    d=cur.fetchall()
```

```
    l=[]
```

```
    for i in d:
```

```
        for x in i:
```

```
            l.append(x)
```

```
    cur.execute("select Name from accounts where Acc_Num="+str(b))
```

```
    f=cur.fetchall()
```

```
    for j in f:
```

```
        for y in j:
```

```
            l.append(y)
```

```
    return l
```

File #8 f2

```
import mysql.connector as mycon
from tkinter import *
from sqlconnection import *

def searchp1(x):
    cur = con.cursor()
    cur.execute("select * from pharmacy where Drug_ID='%s'" %x)

    d=cur.fetchall()
    l=[]
    gap="|"
    st=""
    for i in d:
        st=f"{i[0]:>5}{gap}{i[1]:>30}{gap}{i[2]:>10}"
        l.append(st)
    print(st)
    k=StringVar()
    k.set(st)

    print("record updated successfully")
    return l

def searchp2(x):
    cur = con.cursor()
    print()
```

```
cur.execute("select * from pharmacy where name like '"+x+"%")
gap="|"
d=cur.fetchall()
l=[]
st=""
for i in d:
    st=f"{i[0]:>5}{gap}{i[1]:>30}{gap}{i[2]:>10}"
    l.append(st)
print(st)
k=StringVar()
k.set(st)

print("record updated successfully")
return l

def sel():
    cur.execute("select * from pharmacy")
    return cur.fetchall()

def ins(b, c, f, e):
    cur.execute("select Drug_Id from pharmacy")
    d=cur.fetchall()
    x=d[-1][0]
    y=int(x[1:])+1
    a="A"+str(y)
    cur.execute("insert into pharmacy values('"+a+"','"+b+"','"+f+"','"+c+"','"+e+"','12-18 months',
'NO')")
```

```
con.commit()

print("record inserted successfully")

def red_qua(a,b):
    cur.execute("update pharmacy set Quantity=Quantity-" + str(b) + " where Drug_Id = '" +
str(a)+"'")
    con.commit()
    print("record updated successfully")

def up_medicine_qty(a, b):
    cur = con.cursor()
    cur.execute("update pharmacy set quantity = quantity+"+b+" where Drug_ID='"+str(a)
+"'")
    con.commit()
    print("record updated successfully")

def up_medicine_price(a, b):
    cur = con.cursor()
    cur.execute("update pharmacy set price ="+"b+" where Drug_ID='"+str(a)+"'")
    con.commit()
    print("record updated successfully")

def check_qua(a,b):
    cur = con.cursor()
    cur.execute("Select Quantity from pharmacy where Drug_ID='"+a+"'")
    d=cur.fetchall()
    if d[0][0]<b:
        return False
```

else:

return b

File #9 f3

```
import mysql.connector as con
from sqlconnection import *

def write(a,b,c,d,e):
    cur.execute("insert into inventory values('"+a+"', '"+b+"', '"+c+"', '"+d+"', '"+e+"')")
    con.commit()
    print("records inserted")

def read(q):
    cur.execute("select * from inventory where item_id='"+q+"'")
    print(cur.fetchall())
```

File #10 f4

```
import mysql.connector as mycon
from tkinter import *
from sqlconnection import *

def search_all():
    cur=con.cursor()
    cur.execute("select name,password from accounts")
    d=cur.fetchall()
    return d

def search_alltr():
    cur=con.cursor()
    cur.execute("select name,Acc_num from accounts")
    d=cur.fetchall()
    return d

def search01(x):
    cur = con.cursor()
    cur.execute("select * from accounts where Acc_num="+x)

    d=cur.fetchall()

    st=""
    gap="|"
    for i in d:
        st=f"{i[0]:5}{gap}{i[1]:>12}{gap}{i[2]:>8}{gap}{i[3]:>8}"
```

```
print(st)
k=StringVar()
k.set(st)
print("record updated successfully")
return st
def convert(t):
    cur=con.cursor()
    cur.execute("select Acc_num from accounts where name='"+t+"'")
    d=cur.fetchall()
    return d
def search02(x):
    cur = con.cursor()
    cur.execute("select * from accounts where name = '%s'" %x)

    d=cur.fetchall()
    lis=[]
    for i in d:
        st1=""
        gap="|"
        st1=f"{i[0]:5}{gap}{i[1]:>12}{gap}{i[2]:>8}{gap}{i[3]:>8}"
        lis.append(st1)

    print(lis)
    print("record updated successfully")
    return lis
```



```
def up_paid(x, y):  
    cur = con.cursor()  
    cur.execute("update accounts set Amount_paid=" + y + " where Acc_num=" + x + "")  
    con.commit()  
  
    print("record updated successfully")  
  
def up_total(a, b):  
    cur = con.cursor()  
    cur.execute("update accounts set Total_amount=" + b + " where Acc_num=" + a + "")  
    con.commit()  
  
    print("record updated successfully")  
  
def up_totalIn2(a, b):  
    cur = con.cursor()  
    cur.execute("update accounts set Total_amount=Total_amount+" + str(b) + " where  
Acc_num=" + str(a) + "")  
    con.commit()  
  
    print("record updated successfully")  
  
def up_totalIn(a,b):  
    cur = con.cursor()  
    cur.execute("select Fees from employee where D_ID="+str(a))  
    d=cur.fetchall()  
    cur.execute("update accounts set Total_amount=Total_amount+" + str(d[0][0]) + " where
```

```
Acc_num=" + str(b) + """)
    con.commit()

    print("record updated successfully")

def up_paidIn(a,b):
    cur.execute("update accounts set Amount_Paid=Amount_Paid+" + str(a) + " where
Acc_num=" + str(b) + """)
    con.commit()

    print("record updated successfully")

def up_pass(a, b):
    cur = con.cursor()
    cur.execute("update accounts set password=" + b + " where Acc_no.=" + a + "")
    con.commit()

    print("record updated successfully")

def insert_acc(y, z, k):
    cur = con.cursor()
    cur.execute("select acc_num from accounts")
    d=cur.fetchall()
    x=10001
    if d!=[]:
        for i in d:
            for j in i:
```

```
        if x<j:
            x=j
    x=x+1

    cur.execute("insert into accounts values(%s,%s,%s,%s,%s)", (x, y, z, k, x))
    con.commit()

    print("record updated successfully")
```

File #11 f5

```
import mysql.connector as mycon
from tkinter import *
from sqlconnection import *

def searchTR_all():
    cur=con.cursor()
    cur.execute("select name,password from Transanctions")
    d=cur.fetchall()
    return d
def searchTR01(x):
    cur = con.cursor()
    cur.execute("select * from Transanctions where Acc_num="+x)

    d=cur.fetchall()
    st=""
    gap="|"
    for i in d:
        st=f"{i[0]:5}{gap}{i[1]:>12}{gap}{i[2]:>20}{gap}{i[3]:>8}{gap}{i[4]:>1}"
    print(st)
    k=StringVar()
    k.set(st)
    print("record updated successfully")
    return st
def searchTR02(x):
```

```
cur = con.cursor()
cur.execute("select * from Transanctions where Acc_num = %s" %x)

d=cur.fetchall()
lis=[]
liss=[]
listt=[]
for i in d:
    st1=""
    gap="|"
    if i[5]=="D":
        st1=f"{i[0]:5}{gap}{i[1]:>18}{gap}{i[2]:^30}{gap}{i[3]:>5}{gap}{i[4]:>10}"
        listt.append(st1)
    if i[5]=="P":
        st1=f"{i[0]:5}{gap}{i[1]:>18}{gap}{i[2]:^30}{gap}{i[3]:>5}{gap}{i[4]:>10}"
        liss.append(st1)
lis.append(listt)
lis.append(liss)
print(lis)
print("record updated successfully")
return lis

def up_paidTR(y):
    cur = con.cursor()
    cur.execute("update Transanctions set status='P' where T_ID=" + y + "")
    con.commit()
```

```
print("record updated successfully")
```

```
def up_totalTR(a, b):
```

```
    cur = con.cursor()
```

```
    cur.execute("update Transanctions set Total_amount=" + b + " where Acc_num=" + a +  
    """)
```

```
    con.commit()
```

```
print("record updated successfully")
```

```
def up_totalInTR(a,b):
```

```
    cur = con.cursor()
```

```
    cur.execute("select Fees from employee where D_ID="+str(a))
```

```
    d=cur.fetchall()
```

```
    cur.execute("update Transanctions set Total_amount=Total_amount+" + str(d[0][0]) + "  
where Acc_num=" + str(b) + """)
```

```
    con.commit()
```

```
print("record updated successfully")
```

```
def up_passTR(a, b):
```

```
    cur = con.cursor()
```

```
    cur.execute("update Transanctions set password=" + b + " where Acc_no=" + a + """)
```

```
    con.commit()
```

```
print("record updated successfully")
```

```
def insert_TR(y, z, m, k, l):  
    cur = con.cursor()  
    cur.execute("select T_ID from Transanctions")  
    d=cur.fetchall()  
    x=1001  
    if d!=[]:  
        for i in d:  
            for j in i:  
                if x<j:  
                    x=j  
    x=x+1  
  
    cur.execute("insert into Transanctions values(%s,%s,%s,%s,%s,%s)", (x, y, z, m, k, l))  
    con.commit()  
  
    print("record updated successfully")  
  
def insert_TR01(y, z, k, l):  
    cur = con.cursor()  
    cur.execute("select Fees from employee where D_ID="+str(k))  
    f=cur.fetchall()  
    cur.execute("select T_ID from Transanctions")  
    d=cur.fetchall()  
    x=1001  
    if d!=[]:  
        for i in d:
```

```
        for j in i:
            if x<j:
                x=j
        x=x+1

    cur.execute("insert into Transanctions values(%s,%s,%s,%s,%s,%s)", (x, y, z,'1', f[0][0],
l))
    con.commit()

print("record updated successfully")
```



file #12 Acc\_link

```
import csv
```

```
import datetime
```

```
import tkinter as tk
```

```
#Linking several accounts so that we can display them together on patients window
```

```
#Creating a csv file as a storage method
```

```
fn = 'Link.csv'
```

```
#writing into the csv
```

```
def writeLink(b,c):
```

```
    l = []
```

```
    global fn
```

```
    with open(fn, 'a+') as f:
```

```
        csw = csv.writer(f, lineterminator='\n')
```

```
        f.seek(0)
```

```
        l = list(csv.reader(f))
```

```
        new=[]
```

```
        for i in l:
```

```
            if i[0]==b:
```

```
                deleteLink(b)
```

```
                new=i
```

```
                new.append(c)
```

```
if new==[]:
    new=[b,c]
    csw.writerow(new)
    print("acc linked")
```

#deleting a record from the csv

```
def deleteLink(ID):
    global fn
    with open(fn, 'r') as f:
        flag = False
        csr = csv.reader(f)
        reclst = list(csr)
        for i in range(len(reclst)):
            if reclst[i][0]==ID:
                flag = True
                reclst.pop(i)
                break
    with open(fn, 'w') as f:
        csw = csv.writer(f, lineterminator='\n')
        csw.writerows(reclst)

    if flag:
        print('Record deleted')
    else:
        print('Record not found')
```

#Searching a link

```
def searchLink(a):  
    l = []  
    global fn  
    with open(fn, 'a+') as f:  
  
        csw = csv.writer(f, lineterminator='\n')  
        f.seek(0)  
        l = list(csv.reader(f))  
        for i in l:  
            if i[0]==a:  
                return l
```

File #13 Prescript

```
import os
def presc__se(ID,Date,I):
    try:
        f=open("Prescripts\\"+ID+"\\"+ID+Date+I+".txt",'r')
        return f.readlines()
    except:
        return []
def presc__wr(ID,Date,I,l):
    try:
        f=open("Prescripts\\"+ID+"\\"+ID+Date+I+".txt","w+")
        f.writelines(l)
        print("added to existing directory")
    except:
        try:
            os.mkdir("Prescripts\\"+ID)
        except:
            os.mkdir("Prescripts")
            os.mkdir("Prescripts\\"+ID)
        f=open("Prescripts\\"+ID+"\\"+ID+Date+I+".txt","w+")
        f.writelines(l)
        print("new directory created and saved")
```

File #14 sqlconnection

```
import mysql.connector as mycon
```

```
try:
```

```
con=mycon.connect(host="localhost",username="root",passwd="br13s8010",database="hospit  
al_m")
```

```
    if con.is_connected():
```

```
        print("connection successful")
```

```
    cur=con.cursor()
```

```
except mycon.errors.ProgrammingError:
```

```
    print("wrong sql passwd plz change it in application file")
```

```
    quit()
```

File #15 Timemanager

```
from appointmanager1 import *
from appointmanager2 import *

def appoint_time(date,k,a,b):
    h1=int(a.split(":")[0])
    h2=int(b.split(":")[0])
    m1=int(a.split(":")[1])
    m2=int(b.split(":")[1])

    l=[]
    for i in range(h2-h1+1):
        if i+h1<h2:
            while m1<60:
                if m1!=45 and m1!=0:
                    l.append(str(h1+i)+":"+str(m1)+" - "+str(h1+i)+":"+str(m1+15))
                    m1+=15
                elif m1==0:
                    l.append(str(h1+i)+":"+str("00")+" - "+str(h1+i)+":"+str(m1+15))
                    m1+=15
                else:
                    l.append(str(h1+i)+":"+str(m1)+" - "+str(h1+i+1)+":"+str("00"))
                    m1+=15
            m1=0
        elif i+h1==h2:
```

```
while m1<m2:
    if m1!=45 and m1!=0:
        l.append(str(h1+i)+":"+str(m1)+" - "+str(h1+i)+":"+str(m1+15))
        m1+=15
    elif m1==0:
        l.append(str(h1+i)+":"+ "00" + " - "+str(h1+i)+":"+str(m1+15))
        m1+=15
    else:
        l.append(str(h1+i)+":"+str(m1)+" - "+str(h1+i+1)+":"+ "00")
        m1+=15
    m1=0
poptime=searchtime(k)
for i in poptime:
    for j in l:
        if j==str(i[0]) and str(i[1])==str(date) and i[2]=="Active":
            l.remove(j)
return l
```

## File # 16 Installation

#installation module

#Run This before you start working on the Application

import mysql.connector as mycon

from tkinter import \*

password=input("enter your sql passwd")

con = mycon.connect(host="localhost", user="root", passwd=password)

if con.is\_connected():

print("connection successful")

cur = con.cursor()

f=open("empl.txt",'r')

x=f.readlines()

for i in x:

cur.execute(i)

print("employee structure successfully created")

f.close()

f1=open("AccTable.txt",'r')

x1=f1.readlines()

for i in x1:

cur.execute(i)

print("accounts structure successfully created")



```
f1.close()

f2=open("pharmtable.txt",'r')
x2=f2.readlines()

for i in x2:
    cur.execute(i)
    con.commit()
print("pharmacy structure suceesfully created")

f2.close()

f4=open("Transanc.txt",'r')
x4=f4.readlines()

for i in x4:
    cur.execute(i)
print("transanction structure suceessfully created")

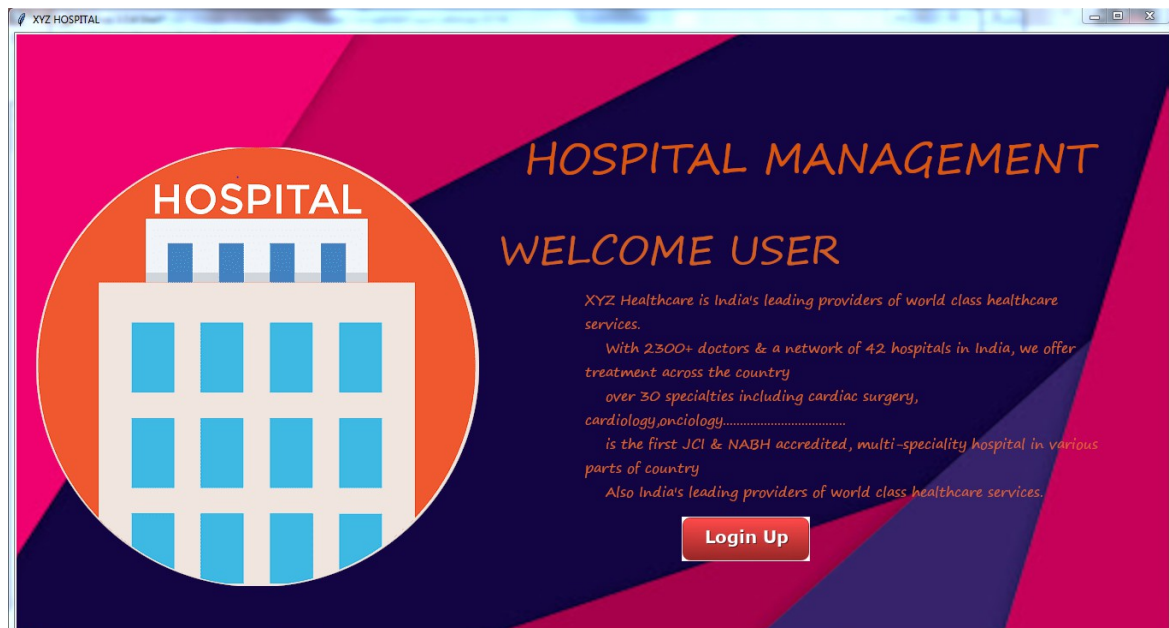
f4.close()

cur.close()
con.close()

print("installation complete")
```

## OUTPUT SCREENS

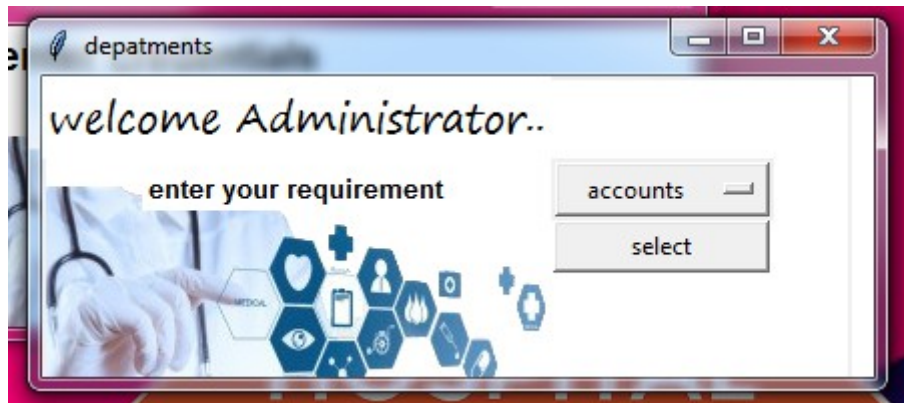
WELCOME SCREEN:-



LOGIN SCREEN:-



## ADMINISTRATOR SCREEN:-



## ACCOUNTS SCREEN:-

accounts

## Accounts Department

account no. 10004

name search

select

acno.	name	Paid	Due
10001	Kishan Surya	11500	11800
10002	Rohan Kapur	0	11000
10003	Vedant Rai	0	0

search results:-

new account ??

Clear

sign in

### updating account

account no.

enter the value to update

col. value

update(acc\_no, only)

## NEW ACCOUNT SCREEN:-

accounts

new account

name name

ammount due 0

amount paid 0

submit

search results:-

10001	Kishan Surya	11500
-------	--------------	-------

## EMPLOYEE SCREEN:-

employee data

Employees Data..

select the employee

doctor ID 90001

Name Search

select

search results:-

Dc_Id	Name	Salary	Department
90001	Gregory House	100000.00	Nephrologist

Clear

new employee ??

sign in

Update Record

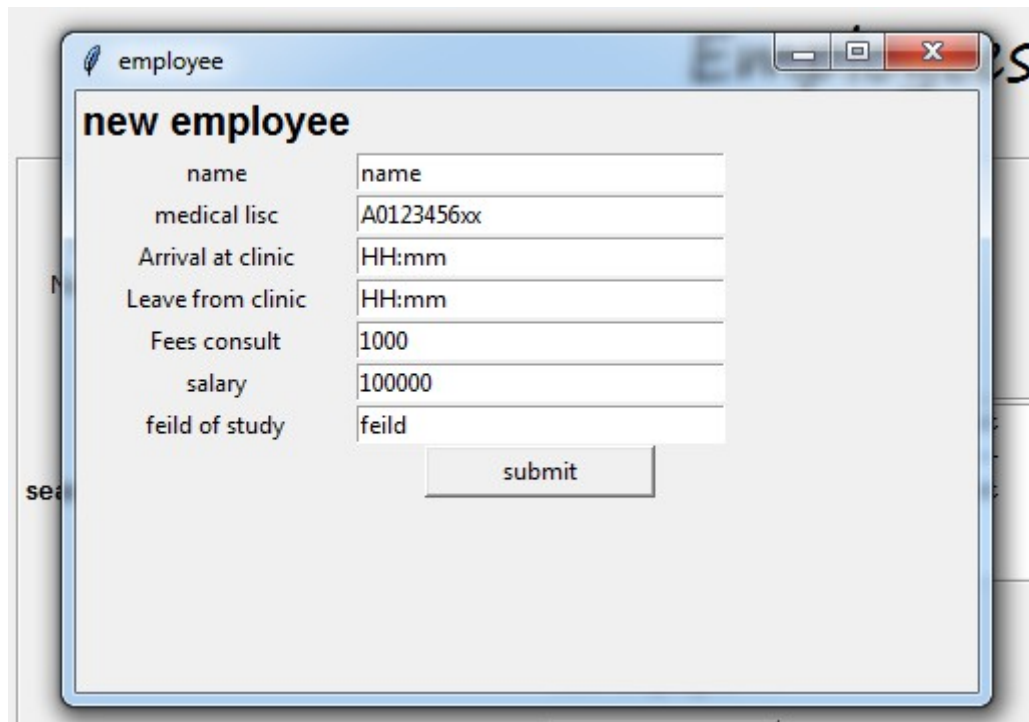
Doctor Id

enter the value

column

update(acc no.)

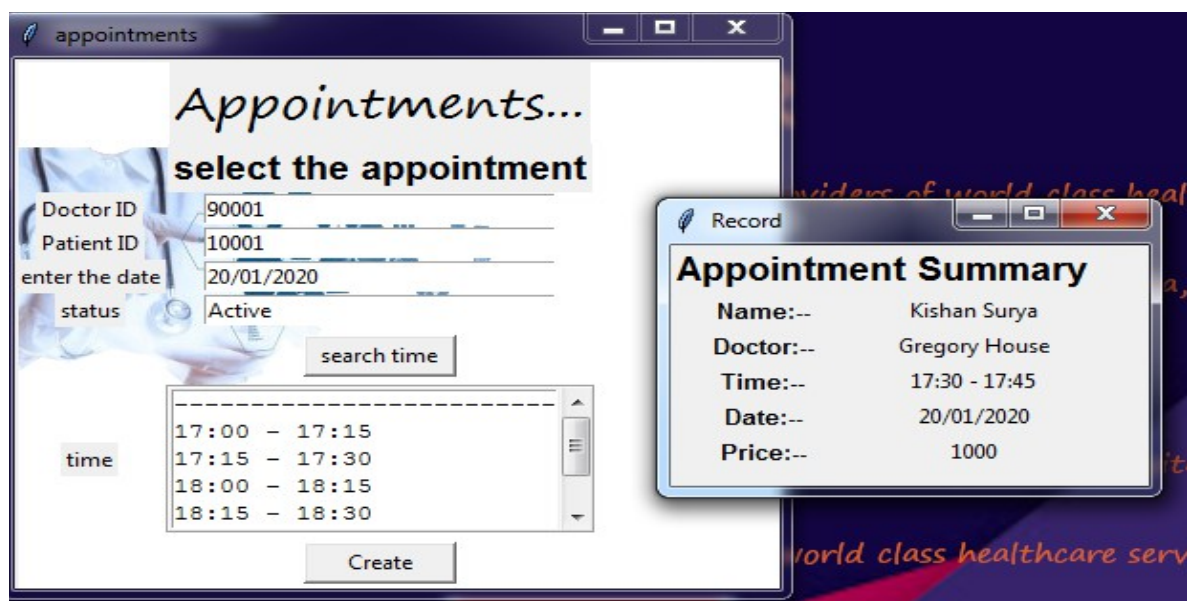
## NEW EMPLOYEE SCREEN:-



name	name
medical lisc	A0123456xx
Arrival at clinic	HH:mm
Leave from clinic	HH:mm
Fees consult	1000
salary	100000
feild of study	feild

submit

## APPOINTMENT'S SCREENS:-



Appointments...  
select the appointment

Doctor ID: 90001  
Patient ID: 10001  
enter the date: 20/01/2020  
status: Active

search time

time

17:00 - 17:15
17:15 - 17:30
18:00 - 18:15
18:15 - 18:30

Create

Record

**Appointment Summary**

Name:--	Kishan Surya
Doctor:--	Gregory House
Time:--	17:30 - 17:45
Date:--	20/01/2020
Price:--	1000

appointments

## Appointments... select the appointment

patient id

Name	Doctor	Date	Time
Kishan	Dr. House	20/01/2020	17:30 - 17:45

### PHARMACY WINDOW:-

pharmacy

## Pharmacy Logs directory

### Pharmacy database

item identity no.

name search

search results:-

ID	Name	Price
A101	Crocin(500mg tablet)	100
A108	Combiflam (325mg tablet)	100

Enter the Acc. no.



## CASHIER WINDOW:-

**INVOICE**

T_ID	ACCOUNT	DETAILS	QTY	PRICE
1005	10001	Crocin (500mg tablet)	3	300
1012	10001	APPOINTMENT	1	1000

ACCOUNT No.

Search

PAYMENT Method

AMOUNT RECIEVED

**PAYMENT HISTORY**

T_ID	ACCOUNT	DETAILS	QTY	PRICE
1001	10001	ADMISSION	1	10000
1003	10001	APPOINTMENT	1	1000
1004	10001	Crocin (500mg tablet)	5	500

**THANK YOU!**

## DOCTOR'S WINDOW:-

**TODAY'S APPOINTMENTS**

T_ID	ACCOUNT	DETAILS	QTY	PRICE	
108	10002	90001	17:15 - 17:30	13/01/2021	Active
109	10003	90001	17:45 - 18:00	13/01/2021	Active

**PRESCRIPTION WRITER**

ACCOUNT NO.

Date(open)

**CHANGE TIME AVAIL**

LEAVE TIME:-

ARRIVE TIME:-

DATE:-

**THANK YOU**

Appointments

## PRESCRIPTION WINDOW:-

prescription

Date:- 13-01-2021  
ID:- 10001  
Doctor:- Gregory House

Submit



## PATIENT WINDOW:-

The screenshot shows a window titled "patient" with the following sections:

### Patients.... Management....

welcome to the portal, Kishan Surya

#### Appointments

patient id

Name	Doctor	Date	Time
Kishan	Dr. House	20/01/2020	17:30 - 17:45

#### Accounts

PC_ID	NAME	DUE	PAID
{10001 Kishan Surya	11500	12800}	
{10004 Yash Ijarwal	0	1000}	

#### Prescriptions

Choose prescripts

Date:-

Doctor:-

#### Doctors

name search

search results:-

Dc_Id	Name	Department
{90002	Robert Chase	Surgeon}

## CONCLUSION

The project was made to ensure a successful interconnection between several stakeholders working under a single hospital. The program successfully incorporates the needs of all those who come in contact with it. Using multiple modes of entrance into the hospital's connections we can see that each person can get his or her information without compromising any security.

The doctors can easily schedule their appointments and can also make sure their prescriptions are well maintained. The patients can get the required information on any doctor and see the records of past visit too.

The pharmacy is also well organized and with the help of quick searches and account no. can sell medicines efficiently too. The administrator has the records of backend and can change a few fundamental details in any record if the need arises.

In the end the project expanded well beyond any initial apprehensions. A lot of new features were added in the course of its development and turned out to be a huge success.

## FUTURE ENHANCEMENTS

The program has a few inherent defects which can be improved with some more time. The features related to linking accounts and including insurance to those with linked accounts and blood relations could have been made.

Many a place code contains blocks which are never executed at any point of time but are present in order for future enhancements. The file 'f3.py' is not used throughout the entirety of the program but is present in order to include hospital assets such as MRI and CT scanners to a better accountability.

With more time a little more aesthetic appeal could also be incorporated into the program for a much better user experience.

# Bibliograpghy

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