

HOSPITAL MANAGEMENT SYSTEM

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1. Main.py:

```
print("\n*****Welcome To Hospital*****")  
  
from welcome import greeting  
greeting.message()
```

2. welcome.py:

```
from login import Login  
from admin import call  
from signup import sign_up
```

```

class greeting:
    def message():
        try:
            value=int(input("\nLogin(1) or Signup(2) "))
            if value ==1:
                print("\nLogin in Patient(1) or Doctor(2) or Admin(3)")
                try:
                    val = int(input("Enter Your Option: "))
                    if val==1:
                        Login.login_(1)
                    elif val == 2:
                        Login.login_(2)
                    elif val==3:
                        print("\n*****WELCOME ADMIN*****")
                        call.admin()
                    else:
                        print(" :( Invalid option:")
                except ValueError:
                    print(" :( Incorrect value :(")
                    greeting.message()
            elif value == 2:
                sign_up.signup_(1)
            else:
                print(" :( Invalid option :(")
        except ValueError:
            print(" :( Re-run the code :(")

```

3. login.py:

```
from authentication import Authentication
```

```
from patient import Patient
```

```
from doctor import Doctor
```

```
class Login:
```

```
    def login_(profile):
```

```
        username = input("Enter your Username: ").lower()
```

```
        Password = input("Enter your password: ")
```

```
        if(profile==1):
```

```
            access=Authentication.verify(username>Password,"patient.txt")
```

```
            if(access):
```

```
                print("\n/*/*/*/*Login Successfull/*/*/*/*")
```

```
                print(f":) welcome {username} :) :)")
```

```
                Patient.welcome()
```

```
            else:
```

```
                print(":( Enter Correct Values :(")
```

```
                Login.login_(1)
```

```
        if(profile==2):
```

```
            access=Authentication.verify(username>Password,"doctor.txt")
```

```
            if(access):
```

```
                print("\n/*/*/*/*Login Successfull/*/*/*/*")
```

```
                print(f"\n:) welcome {username} :) :)")
```

```
                Doctor.welcome()
```

```
            else:
```

```
                print(" :| Enter Correct Values :|")
```

```
                Login.login_(2)
```

4. signup.py:

```
import re
```

```
from login import Login
```

```
passcheck= r'^[a-z to A-Z to 0-9]+[!@#$$%^&*()_+]?\\w{2,3}$'
```

```
class sign_up:
```

```
    def signup_(value):
```

```
        if value == 1:
```

```
            print("\n:) :)Welcome To Sign Up page for Patient :) :)")
```

```
            first_name=input("Enter your First Name: ").lower()
```

```
            last_name=input("Enter your last name: ").lower()
```

```
            initial=input("Enter your initial: ").lower()
```

```
            phone_number=int(input("Enter your phone number: "))
```

```
            username=input("Enter your username: ").lower()
```

```
            password=input("Enter your password: ")
```

```
            f=open("patient.txt","a+")
```

```
            if phone_number>6000000000 and 9999999999>phone_number:
```

```
                phone_number=str(phone_number)
```

```
                if re.search(passcheck,password) and len(password)>=8:
```

```
                    f.writelines([first_name," ",last_name," ",initial," ",phone_number," ",username,"
",password,"\n"])
```

```
                else:
```

```
                    print("Use Caps(1), small(1), number(1), Special Char(1/2), Must be in 8 Char")
```

```
                    print("!! Enter Strong password !!")
```

```
                    sign_up.signup_(1)
```

```
            else:
```

```
                print("!! Enter Valid Phone number !!")
```

```
                sign_up.signup_(1)
```

```
f.close()

print("\n:) Login :)")

Login.login_(1)

if value ==2:

    Pass
```

5. authentication.py:

class Authentication:

```
def verify(user,passw,filename):
```

```
    f=open(filename,"r")
```

```
    overall=f.readlines()
```

```
    username=[]
```

```
    password=[]
```

```
    for i in overall:
```

```
        username_password=i.split(' ')
```

```
        #print(username_password)
```

```
        username.append(username_password[4])
```

```
        password.append(username_password[5])
```

```
        #print(i)
```

```
password=[s.replace("\n","") for s in password]
```

```
#print(password)
```

```
username_flag=False
```

```
password_flag=False
```

```
for i in username:
```

```
    if user==i:
```

```
        username_flag=True
```

```
for j in password:
```

```

    if passw==j:
        password_flag=True
    if username_flag and password_flag:
        return 1
    else:
        return 0

```

6. admin.py:

```

from authentication import Authentication

```

```

from signup import sign_up

```

```

class call:

```

```

    def admin():

```

```

        username=input("Enter your username: ").lower()

```

```

        password=input("Enter your Password: ")

```

```

    try:

```

```

        access=Authentication.verify(username,password,"admin.txt")

```

```

        val=True

```

```

        call.admin_fun(access,val)

```

```

    except IndexError:

```

```

        print("\n???Enter Correct Values???")

```

```

def admin_fun(access,val):

```

```

    while val:

```

```

        if access:

```

```

            value=int(input("\nWant to Perform: \nAdd Doctor(1) delete Doctor(2) or Logout(3)"))

```

```

            if value==1:

```

```

                print("Signup for Doctor")

```

```

                first_name=input("Enter Doctor First Name: ").lower()

```

```

last_name=input("Enter last name: ").lower()
initial=input("Enter initial: ").lower()
phone_number=input("Enter phone number: ")
username=input("Enter Username for Doctor: ").lower()
password=input("Enter Password for Doctor: ")
role=input("Enter the speciality of Doctor: ")
is_there=input("Enter availability yes or no: ")
f=open("doctor.txt","a+")

f.writelines([first_name," ",last_name," ",initial," ",phone_number," ",username,"
",password," ",role," ",is_there,"\n"])

f.close()

call.admin_fun(1,True)

if value==2:

    username=input("Enter Doctor username: ").lower()
    password=input("Enter password to Delete: ")
    access=Authentication.verify(username,password,"doctor.txt")

    if access:

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

        store=[]

        store=f.readlines()

        #print(store)

        f.close()

        pass_=[]

        for j in store:

            username_=j.split(' ')

            pass_.append(username_[5])

        for i in range(len(pass_)):

```

```

        if password == pass_[i]:
            index=i
            f=open("doctor.txt",'w')
            for line in store:
                if line.strip("") !=store[index]:
                    f.write(line)
            f.close()
            call.admin_fun(1,True)
        else:
            print("Given data is not in List")
            call.admin_fun(1,True)
    if value==3:
        print(" :) :) Come Another Time :) :)")
        exit()
    else:
        print("???Enter valid Option???)")
    else:
        print("Either Username or Password Wrong\n")
        print("~~Back to Login~\n")
        call.admin()

```

7. doctor.py:

class Doctor:

def welcome():

while True:

values=int(input("List of Patients(1) or Logout(2) "))

if values==1:


```

print("\nList of Patients: ")
f=open("Patient.txt",'r')
find=f.readlines()
pat_name=[]
ph_num=[]
for i in find:
    username_password=i.split(' ')
    pat_name.append(username_password[0])
    ph_num.append(username_password[3])
length=len(pat_name)
print("\nName  ","Phone Number")
for i in range(length):
    print(pat_name[i],ph_num[i])
print("\n")
if values==2:
    print("Thank You Doctor :) :)")
    Break

```

8. patient.py:

class Patient:

def welcome():

while True:

option=int(input(("View doctors(1) or Logout(2) ")))

if option==1:

print("List of Doctors: \n")

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

find=f.readlines()

```

doc_name=[]
ph_num=[]
role=[]
for i in find:
    username_password=i.split(' ')
    doc_name.append(username_password[0])
    ph_num.append(username_password[3])
    role.append(username_password[6])
    role=[s.replace('\n','') for s in role]
length=len(doc_name)
print("Name  ","Phone Number","Speciality\n")
for i in range(length):
    print(doc_name[i] ,ph_num[i] ,role[i])
print("\n")
elif option==3:
    appoint=int(input(("Want to make Appointment(1) or not(0)")))
    if appoint:
        pass
elif option==2:
    print("\n:) Take Care of Your Health... :)")
    break
else:
    print("\n:( Enter Valid Option :(")

```

9. admin.txt:

ARUN PRAKASH N 6380325845 arun_ 1234567

JAYPRASANTH S 7094834556 jay_ 3456789

10. doctor.txt:

jack s 7094834556 jack Jack4@123 MBBS yes

jack love k 9047862632 jack loveJack@4 MBBS no

shabeer hussain n 9443509632 shabeer 123Shabeer@ ENT yes

vibhooshana s 7810044998 vibhoo vibhoo@1234 Cardio yes

devi dharsana p 8667888813 devi Dharsana@06 MS(Surgeon) yes

11. Patient.txt:

hari n 8607654255 hari Hari@3456

arun prakash n 6380325845 arun 9087*Arun

jay s 7890056890 jay 9087#jayP

jack s 7094834556 jack 34!Jessi

jack love k 9047862632 jack 123456@Zy

shabeer hussain n 9443509632 shabeer 123^Shabeer

vibhooshana s 7810044899 vibhoo 12\$Vibhoo

devi dharsana p 8667888813 devi_dharsana Dharsana@06

12. Output:

```
OUTPUT  TERMINAL  DEBUG CONSOLE  PROBLEMS  1: Python
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\jay.shanmugam\Desktop\Py> & C:/Users/jay.shanmugam/AppData/Local/Programs/Python/Python311/python.exe
c:/Users/jay.shanmugam/Desktop/Py/filehandling/Main.py

*****Welcome To Hospital*****

Login(1) or Signup(2) 1

Login in Patient(1) or Doctor(2) or Admin(3)
Enter Your Option: 3

*****WELCOME ADMIN*****
Enter your username: jay_
Enter your Password: 3456789

Want to Perform:
Add Doctor(1) delete Doctor(2) or Logout(3)2
Enter Doctor username: jack
Enter password to Delete: oveJack@4

Want to Perform:
Add Doctor(1) delete Doctor(2) or Logout(3)3
:) :) Come Another Time :) :)
PS C:\Users\jay.shanmugam\Desktop\Py>
```

```
Main.py  doctor.txt x
doctor.txt
1 jack s 7094834556 jack Jack4@123 MBBS yes
2 shabeer hussain n 9443509632 shabeer 123Shabeer@ ENT yes
3 vibhooshana s 7810044998 vibhoo vibhoo@1234 Cardio yes
4 devi dharsana p 8667888813 devi Dharsana@06 MS(Surgeon) yes
5
```