

KENDRIYA VIDYALAYA NO-2
CHIMPU, ITANAGAR



A PROJECT REPORT ON:
HOSPITAL MANAGEMENT

SUBMITTED TO:

MR.S.K MISHRA
P.G.T.(COMP. SC)

SUBMITTED BY:

RAKTIM KALITA

CERTIFICATE

This is to certify that **Raktim Kalita** of class **XII A** of **Kendriya Vidyalaya No2** has done his project on **Hospital Management** under my supervision. He has taken interest and has shown at most sincerity in completion of this project.

I certify this Project up to my expectation & as per guidelines issued by **CBSE, NEW DELHI**.

Internal Examiner

External Examiner

Principal

MR.K.R.MEENA

ACKNOWLEDGMENT

It is with pleasure that I acknowledge my sincere gratitude to our teacher, **Mr.S.K Mishra** who taught and undertook the responsibility of teaching the subject computer science. I have been greatly benefited from his classes.

I am especially indebted to our Principal **Mr.K.R.Meena** who has always been a source of encouragement and support and without whose inspiration this project would not have been a successful I would like to place on record heartfelt thanks to him.

Finally, I would like to express my sincere appreciation for all the other students for my batch their friendship & the fine times that we all shared together.

HARDWARE AND SOFTWARE REQUIREMENTS:

Hardware:

AMD Ryzen 7 PRO 2700 Eight-Core Processor 3.20 GHz

RAM: Minimum 4 G.B required

Software:

Python 3.10

MySql 8.0

CODING:

```
print("""  
=====
```

~WELCOME~

```
=====
```

""")

```
import mysql.connector  
a=mysql.connector.connect(host='localhost',user='root',password=  
'admin',database='hospital')  
print(a)  
cr=a.cursor()
```

```
def add_patient():  
    pID=int(input("enter patient ID"))  
    name=input("enter patient name")  
    age=int(input("enter patient age"))  
    phoneno=int(input("enter phone_no"))
```

```

disease=input("enter the disease name")
y=input ('enter year')
m=input ('enter month')
d=input ('enter date')
fd=y+"-"+m+"-"+d

cr.execute("insert into patient
values({},{},{},{},{},{},{})".format(pID,'name',age,phoneno,'dis
ease','fd'))

cr.execute("select * from patient;")
x=cr.fetchall()

print(x)

print("-----")
print("Patient info added successfully ! ")
print("-----")

```

#fd is for date

```

def add_doctor():

    dID=int(input("enter doctor ID"))
    name=input("enter doctor name")
    age=input("enter doctor age")

```

```

dept=input("enter dept name")
contact=int(input("enter contact"))
timings=input("enter doctor timings")

cr.execute("insert into doctor
values({ },'{ }',{ },'{ }',{ },'{ }');".format(dID,'name',age,'dept',contact
,'timings'))

cr.execute("select * from doctor;")
x=cr.fetchall()
print(x)
print("-----")
print("Doctor details added successfully !")
print("-----")

```

```

def add_nurse():
    nID=int(input("enter nurse ID"))
    name=input("enter nurse name")
    age=input("enter nurse age")
    contact=int(input("enter contact"))
    shift=input("enter nurse timing")

    cr.execute("insert into nurse
values({ },'{ }',{ },'{ }',{ }');".format(nID,'name',age,contact,'shift'))

    cr.execute("select * from nurse;")

```

```
x=cr.fetchall()
print(x)
print("-----")
print("Nurse details added successfully !")
print("-----")
```

#SEARCH IS FOR USER FUNCTION

```
def search():
    print("1 to search for patient details in patient table")
    print("2 to search for doctor details in doctor table")
    a=int(input("enter your choice"))
    if a==1:
```



```

x=input("enter the patient id")
cr.execute("select * from patient where pID='{ }';".format(x))
data=cr.fetchall()
if data==[]:
    print("-----")
    print("Invalid Patient ID")
    print("-----")
else:
    for item in data:
        print("-----")
        print("Patient ID:", item[0])
        print("Patient name:",item[1])
        print("Patient age:", item[2])
        print("Patient phoneno:",item[3])
        print("Disease name:",item[4])
        print("Patient date_of_entry:", item[5])
        print("-----")

```

```

elif a==2:

```

```

    x=input("enter the doctor id")
    cr.execute("select * from doctor where dID='{ }';".format(x))

```

```
data=cr.fetchall()
if data==[]:
    print("-----")
    print("Invalid Doctor ID")
    print("-----")
else:
    for item in data:
        print("-----")
        print("Doctor ID:", item[0])
        print("Doctor name:",item[1])
        print("Doctor age:", item[2])
        print("Doctor dept:", item[3])
        print("Doctor contact:", item[4])
        print("Doctor timings:", item[5])
        print("-----")
```

```
def patient_discharge():
    print("1 to disharge patient")
    print("2 to exit")
    b=int(input("enter your choice"))
```

```

if b==1:
    x=input("enter the patient name")
    cr.execute("select * from patient where
name='{ }';".format(x))
    data=cr.fetchall()
    print(data)
    bill=input("has the patient paid all the bills ? (y/n):")
    if bill=="y":
        print("-----")
        print("patient has been discharged ! !")
        print("-----")
        cr.execute("delete from patient where name='x';")
    else:
        print("-----")
        print("bill has not been paid ! !")
        print("-----")

```

```

def billin():
    i=input('Enter disease name :-')
    r=int(input('Enter no. of days :-'))

```

```
cr.execute("select cost from bill where Disease='{ }';".format(i))
d=cr.fetchone()
d=sum(d)
o=r*d
print("-----")
print("This is the total bill:",o)
print("-----")
```

```
def delete_patient():
    name=input("ENTER PATIENT'S NAME:")
    cr.execute("select * from patient where name='"+name+"'")
    k=cr.fetchall()
    print(k)
    p=input("do you really want to delete this data? (y/n):")
```

```

if p=="y":
    cr.execute("delete from patient where name='"+name+"'")
    print("=====")
    print("The data has been successfully deleted !")
    print("=====")
else:
    print("Data NOT deleted !")

```

```

def delete_doc():
    name=input("ENTER DOCTOR'S NAME:")
    cr.execute("select * from doctor where name='"+name+"'")
    data=cr.fetchall()
    print(data)
    p=input("do you really want to delete this data? (y/n):")
    if p=="y":
        cr.execute("delete from doctor where name='"+name+"'")
        print("=====")
        print("The data has been successfully deleted !")
        print("=====")

```

else:

```
print("-----")  
print("Data NOT deleted !")  
print("-----")
```

def delete_nurse():

```
name=input("ENTER NURSE'S NAME:")  
r.execute("select * from nurse where name='"+name+"'")  
data=cr.fetchall()  
print(data)  
p=input("do you really want to delete this data? (y/n):")  
if p=="y":  
    cr.execute("delete from nurse where name='"+name+"'")  
  
    print("=====")  
    print("The data has been successfully deleted !")  
    print("=====")  
else:  
    print("-----")
```

```
print("Data NOT deleted !")  
print("-----")
```

```
def patient_details():  
    cr.execute("select * from patient;")  
    x=cr.fetchall()  
    for item in x:  
        print("-----")  
        print("Patient ID:", item[0])  
        print("Patient name:", item[1])  
        print("Patient age:", item[2])  
        print("Patient phoneno:", item[3])  
        print("Disease name:", item[4])  
        print("Patient date_of_entry:", item[5])  
        print("-----")
```

```
def doctor_details():
```

```
cr.execute("select * from doctor;")
x=cr.fetchall()
for item in x:
    print("-----")
    print("Doctor ID:", item[0])
    print("Doctor name:",item[1])
    print("Doctor age:", item[2])
    print("Doctor dept:", item[3])
    print("Doctor contact:", item[4])
    print("Doctor timings:", item[5])
    print("-----")
```

```
def nurse_details():
    cr.execute("select * from nurse;")
    x=cr.fetchall()
    for item in x:
        print("-----")
        print("Nurse ID:", item[0])
        print("Nurse name:",item[1])
```



```
print("Nurse age:", item[2])
print("Nurse contact:", item[3])
print("Nurse shift:", item[4])
print("-----")
```

```
#=====
=====
=====
```

```
#AFTER GOING TO ADMIN func (ADMINISTRATION func)
OPENS !!!
```

```
def user():
    while True:
```

```
print("""  
    1.search  
    2.exit""")
```

```
a=int(input("Enter your choice:"))  
if a==1:  
    search()  
  
elif a==2:  
    print("you have chosen exit ! !")  
    break
```

```
print("""
```

=====

This function is still in development ! T^T

COMING SOON

=====

```
""")
```

```
def admin():
```

```
    while True:
```

```
        print("""
```

```
            1.Administration(doc & nurse details)
```

```
            2.Patient(Admission & Discharge)
```

```
            3.Sign Out
```

```
        """)
```

```
        a=int(input("Enter your choice:"))
```

```
        if a==1:
```

```
            administration()
```

```
        elif a==2:
```

```
            print("""
```

- 1.Patient details
- 2.Add patient
- 3.Discharge patient
- 4.Billing
- 5.Exit""")

```
b=int(input("enter your choice"))
```

```
if b==1:
```

```
    patient_details()
```

```
elif b==2:
```

```
    add_patient()
```

```
elif b==3:
```

```
    patient_discharge()
```

```
elif b==4:
```

```
    billin()
```

```
elif b==5:
```

```
    break
```

```
elif a==3:  
    print("You have signed out !!!!")  
    break
```

```
def administration():  
    print("""  
        1.Show doctor details  
        2.Add doctor  
        3.Show nurse details  
        4.Add nurse  
        5.Delete doc info  
        6.Delete nurse info  
        """)
```

```
b=int(input("enter your choice"))
```

```
if b==1:  
    doctor_details()
```

```
elif b==2:  
    add_doctor()
```

elif b==3:

nurse_details()

elif b==4:

add_nurse()

elif b==5:

delete_doc()

elif b==6:

delete_nurse()

```
#=====
=====
=====
```

```
#INTERFACE
```

```
while True:
```

```
    print("""
```

```
        1.enter as user
```

```
        2.enter as admin
```

```
    """)
```

```
    r=int(input("enter your choice"))
```

```
    if r==1:
```

```
        user()
```

```
    elif r==2:
```

```
        admin()
```

MySQL DATABASE:

```
mysql> use hospital;
Database changed
mysql> select * from patient;
```

pID	name	age	phoneno	disease	fd
1	anjali	24	843696190	stroke	19-03-2022
21	akash	19	843696198	schizophrenia	21-01-2021
23	raktim	21	943696198	congenital heart disease	12-03-2022
24	rita	29	843696191	amenorrhea	20-03-2022
27	roy	31	943696191	fracture	29-12-2021

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

```
mysql> select * from doctor;
```

dID	name	age	dept	contact	timings
69	Dr kalita	34	neurologist	943676276	10am to 3pm
698	Dr yadav	40	cardiologist	943676274	10am to 4pm
900	Dr chetry	30	gynaecologist	943676298	9am to 2pm
901	Dr pandey	32	orthopedic	943696298	9am to 3pm
921	Dr sharma	30	psychologist	943696198	10am to 3pm

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

```
mysql> select * from nurse;
```

nID	name	age	contact	shift
821	pumphery	36	928976276	2pm to 11pm
870	mary	29	948976276	9am to 6pm
871	dina	29	948976276	2pm to 9pm
889	carla	23	943676276	9am to 6pm
890	kumari	27	943976276	9am to 6pm

```
5 rows in set (0.00 sec)

mysql>
```


OUTPUT:

```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help
Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:\Users\HP\Desktop\practical program(rk,ad,an) improve version.py =

=====
~WELCOME~
=====

<mysql.connector.connection_cext.CMySQLConnection object at 0x0000022F47C8DE40>

1.enter as user
2.enter as admin

enter your choice2

1.Administration(doc & nurse details)
2.Patient(Admission & Discharge)
3.Sign Out

Enter your choice:1

1.Show doctor details
2.Add doctor
3.Show nurse details
4.Add nurse
5.Delete doc info
6.Delete nurse info

enter your choice
```

Enter your choice:1

- 1.Show doctor details
- 2.Add doctor
- 3.Show nurse details
- 4.Add nurse
- 5.Delete doc info
- 6.Delete nurse info

enter your choice1

Doctor ID: 69
Doctor name: Dr kalita
Doctor age: 34
Doctor dept: neurologist
Doctor contact: 943676276
Doctor timings: 10am to 3pm

Doctor ID: 698
Doctor name: Dr yadav
Doctor age: 40
Doctor dept: cardiologist
Doctor contact: 943676274
Doctor timings: 10am to 4pm

Doctor ID: 900
Doctor name: Dr chetry
Doctor age: 30
Doctor dept: gynaecologist
Doctor contact: 943676298
Doctor timings: 9am to 2pm

Doctor ID: 901
Doctor name: Dr pandey
Doctor age: 32
Doctor dept: orthopedic
Doctor contact: 943696298
Doctor timings: 9am to 3pm

Doctor ID: 921
Doctor name: Dr sharma
Doctor age: 30
Doctor dept: psychologist
Doctor contact: 943696198
Doctor timings: 10am to 3pm

- 1.Administration(doc & nurse details)
- 2.Patient(Admission & Discharge)
- 3.Sign Out

Enter your choice|

- 1.Administration(doc & nurse details)
- 2.Patient(Admission & Discharge)
- 3.Sign Out

Enter your choice:2

- 1.Patient details
- 2.Add patient
- 3.Discharge patient
- 4.Billing
- 5.Exit

enter your choice3

1 to disharge patient

2 to exit

enter your choice1

enter the patient namerita

[(24, 'rita', 29, 843696191, 'amenorrhea', '20-03-2022')]

has the patient paid all the bills ? (y/n):y

patient has been discharged !!

- 1.enter as user
- 2.enter as admin

enter your choice1

- 1.search
- 2.exit

Enter your choice:1

1 to search for patient details in patient table

2 to search for doctor details in doctor table

enter your choice1

enter the patient id1

Patient ID: 1
Patient name: anjali
Patient age: 24
Patient phoneno: 843696190
Disease name: stroke
Patient date_of_entry: 19-03-2022

- 1.search
- 2.exit

Enter your choice|

BIBLIOGRAPHY:

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