



A Project Report On “HOSPITAL MANAGEMENT”

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This is to certify that **Cdt.SURAJ KUMAR** , Roll No. 32 of Class XII has prepared the report on the Project entitled **“HOSPITAL MANAGEMENT”**. The report is the result of his efforts & endeavors. The report is found worthy of acceptance as final project report for the subject Computer Science of Class XII.

Signature
(Internal Examiner)

Signature
(External Examiner)



DECLARATION

I hereby declare that the project work entitled “**HOSPITAL MANAGEMENT**”, submitted to Department of **Computer Science**, SAINIK SCHOOL KALIKIRI is **prepared by me**. All the **coding** is the result of my **personal efforts**.

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CONTENTS

1. Working Description	
2. How it Works.....	
3. Code of the Project	
4. Output Screens	
5. Bibliography.....	

WORKING DESCRIPTION

This program is designed as an e-HOSPITAL

- It facilitates the user with the flexibility of maintaining all sorts of indexing required in order to maintain records of doctors, medicines, inpatients, out-patients and payments related information.
- It automatically assigns doctors to the patients on the basis of availability of doctor and their class of expertise.
- It also manages salary of doctor and other staff working in the hospital.

HOW IT WORKS

- It actually stores all its data in a database as table.
- This database is connected to python programming language by using which we can interpret data from database.
- we can alter the data stored in database, we can delete old data and can also add new data to it.
- It displays the required content to user when the concerned commands are called off.

CODE OF THE PROGRAM

```
import mysql.connector as conn
from prettytable import PrettyTable
from texttable import Texttable
#from datetime import datetime
#import time,calender
#import csv
global data

from os import system
mydb=conn.connect(host='localhost',
                  user='root',
                  password='student',
                  database='Hospital_Management')
if mydb.cursor:
    print('done')

#Function is for entering information into InPatient_Management table
def entryIPM():
    sl=input("Enter Slno:")
    pn=input("Enter the Patient Name:")
    pd=input("Enter Patient_ID:")
    se=input("Enter the Sex of the Patient:")
    ag=input("Enter the Age of the Patient:")
    il=input("Enter the Illness of the Patient:")
    cd=input("Enter the Name of the Doctor the Patient is Consulting:")
    rn=input("Enter the Room no of the Patient:")
```


HOSPITAL MANAGEMENT

```
da=input("Enter the Date of Admission of the Patient:")
pa=input("Enter the Payment Amount:")
data=(sl,pn,pd,se,ag,il,cd,rn,da,pa)
sql='insert into InPatient_Management
values(%s,%s,%s,%s,%s,%s,%s,%s,%s,%s);'
```

```
c=mydb.cursor()
c.execute(sql,data)
mydb.commit()
print("successfully entered....")
system("cls")
```

#Fuction to show InPatient_Management table
def showIPM():

```
sql='select * from InPatient_Management;'
c=mydb.cursor()
c.execute(sql)
data=c.fetchall()
system("cls")
t=PrettyTable(['Slno','Patient_Name','Patient_ID','Sex','Age','Illness',
               'Consulting_Doctor','Room_No','Date_of_Admission','Payment'])
for i in data:
    t.add_row(list(i))
print(t)
```

#Function is for entering information into OutPatient_Management table
def entryOPM():

```
sl=input("Enter Slno:")
pn=input("Enter the Patient Name:")
pd=input("Enter Patient_ID:")
se=input("Enter the Sex of the Patient:")
ag=input("Enter the Age of the Patient:")
il=input("Enter the Illness of the Patient:")
```

HOSPITAL MANAGEMENT

```
dv=input("Enter the Date of Visit of the Patient:")
pa=input("Enter the Payment Amount:")
data=(sl,pn,pd,se,ag,il,dv,pa)
sql='insert into OutPatient_Management
values(%s,%s,%s,%s,%s,%s,%s,%s);'
c=mydb.cursor()
c.execute(sql,data)
mydb.commit()
print("successfully entered....")
system("cls")
```

#Function is to show OutPatient_Management table

```
def showOPM():
    sql='select * from OutPatient_Management;'
    c=mydb.cursor()
    c.execute(sql)
    data=c.fetchall()
    system("cls")
```

```
t=PrettyTable(['Slno','Patient_Name','Patient_ID','Sex','Age','Illness','Date_of
_Visiting',
               'Payment'])
for i in data:
    t.add_row(list(i))
print(t)
```

#Function is to enter the information into the Doctor table

```
def entryDoctor():
    sl=input("Enter Slno:")
    dn=input("Enter the Doctor Name:")
    dd=input("Enter Doctor_ID:")
    se=input("Enter the Sex of the Doctor:")
    ag=input("Enter the Age of the Doctor:")
    da=input("Enter the Department of the Doctor:")
    ad=input("Enter the Days on which the Doctor is Available:")
    sa=input("Enter the Salary of the Doctor:")
```

```

data=(sl,dn,dd,se,ag,da,ad,sa)
sql='insert into Doctor values(%s,%s,%s,%s,%s,%s,%s,%s);'
c=mydb.cursor()
c.execute(sql,data)
mydb.commit()
print("successfully entered....")
system("cls")

```

#Function to show Doctor table

```

def showDoctor():
    sql='select * from doctor;'
    c=mydb.cursor()
    c.execute(sql)
    data=c.fetchall()
    system("cls")
    t=PrettyTable(['Slno','Doctor_Name','Doctor_ID','Sex','Age','Department',
                   'Available_Days','Salary'])
    for i in data:
        t.add_row(list(i))
    print(t)

```

#Fuction to enter information into pay table

```

def entriypay():
    sl=input("Enter SlNo:")
    PID=input("Enter patient ID:")
    Pn=input("Enter patient name:")
    kat=katta()
    ndo,SSC,med,ot,cost=kat
    data=(sl,PID,Pn,ndo,SSC,med,ot,cost)
    sql='insert into pay values(%s,%s,%s,%s,%s,%s,%s,%s);'
    c=mydb.cursor()
    c.execute(sql,data)
    mydb.commit()

```

```

def showpay():
    sql='select*from pay;'

```

```

c=mydb.cursor()
c.execute(sql)
data=c.fetchall()
system("cls")

```

```

t=PrettyTable(['SlNo','Patient_ID','Patient_Name','Room_Rent','Scanning_Bil
l','Medicine_Charges','Other_Charges','Total_Payments'])
for i in data:
    t.add_row(list(i))
print(t)

```

```

def entryMed():
    sl=input("Enter the SlNo:")
    mi=input("Enter medicine ID:")
    mn=input("Enter medicine name:")
    cost=input("Enter cost of medicine:")
    data=(sl,mi,mn,cost)
    sql='inset into medicine values(%s,%s,%s,%s);'
    c=mydb.cursor()
    c.execute(sql,data)
    mydb.commit()

```

```

def showmed():
    sql='select*from medicine;'
    c=mydb.cursor()
    c.execute(sql)
    data=c.fetchall()
    system("cls")
    t=PrettyTable(['SlNo','Medicine_ID','Medicine_Name','Cost'])
    for i in data:
        t.add_row(list(i))
    print(t)

```

```

def freakkan():
    med=0

```

```

nm=int(input("Enter no. of medicine the patient has taken:"))
l=0
if (l<nm):
    mn=int(input("Enter the medicine code:"))
    cos=f'select cost from medicine where Medicine_ID = {mn}'
    c=mydb.cursor()
    c.execute(cos)
    zen=c.fetchall()
    cos=int(zen[0][0])
    med+=cos
    l+=1
else:
    return med

```

```

def katta():
    global nd
    ad=input("Was the patient admitted (Y/N):")
    SC=input("Did the patient undergo scans(Y/N):")
    med=freakkan()
    cost=0
    if (ad.lower() == 'y'):
        nd=int(input("For how many days was the patient admitted:"))
        IC=input("Was the patient in ICU(Y/N):")
        if (IC.lower() == 'y'):
            nc=int(input("For how days was the patient admitted in ICU:"))
            nco=nc*3000
            nd=nd-nc
            ndo=(nd*1500)+nco
            cost+=ndo
        else:
            cost+=0
    if (SC=='Y'):
        mr=input("Did the patient undergo MRI scan(Y/N):")
        ct=input("Did the patient undergo CT scan(Y/N):")
        us=input("Did the patient undergo Ultrasound scan(Y/N):")
        xr=input("Did the patient take X-Ray(Y/N):")

```

```

SSC=0
if (mr.lower() == 'y'):
    SSC+=9000
if (ct.lower() == 'y'):
    SSC+=4500
if (us.lower() == 'y'):
    SSC+=2000
if (xr.lower() == 'y'):
    SSC+=300
cost+=SSC
ot=int(input("Enter other charges:"))
med = 0
cont=0

cont+=med

ndo=(nd*1500)+nco
SSC=0

data=(ndo,SSC,med,ot,cost)
return data

```

```

#__mainfunction__
def main():
    system("cls")
    while(True):
        print("HOSPITAL MANAGEMENT SYSTEM")
        print("1:Add patient details")
        print("2:Show Inpatient details")
        print("3:Add outpatient details")
        print("4:Show outpatient details")
        print("5:Add doctor details")
        print("6:Show doctor details")
        print("7:Add payment details")
        print("8:Show payment details")

```

```
print("9:show medicine")
print("10:Exit")
choice=int(input("\t Please select an above option:"))
if (choice==1):
    entryIPM()
elif (choice==2):
    showIPM()
elif (choice==3):
    entryOPM()
elif (choice==4):
    showOPM()
elif (choice==5):
    entryDoctor()
elif (choice==6):
    showDoctor()
elif (choice==7):
    entriypay()
elif (choice==8):
    showpay()
elif (choice==9):
    showmed()
elif (choice==10):
    break
else:
    print("Wrong choice...")
main() #Main function call
```

OUTPUT SCREENS

WELCOME TO THE HOSPITAL DATABASE MANAGEMENT #####
 HOSPITAL MANAGEMENT SYSTEM

1:Add patient details
 2:Show Inpatient details
 3:Add outpatient details
 4:Show outpatient details
 5:Add doctor details
 6:Show doctor details
 7:Add payment details
 8:Show payment details
 9:show medicine
 10:Exit

PLEASE SELECT AN ABOVE OPTION:|

PLEASE SELECT AN ABOVE OPTION:1

Enter Slno:2
 Enter the Patient Name:DINKAR
 Enter Patient_ID:0031
 Enter the Sex of the Patient:M
 Enter the Age of the Patient:18
 Enter the Illness of the Patient:CORONA
 Enter the Name of the Doctor the Patient is Consulting:RAMGOPAL VERMA
 Enter the Room no of the Patient:31
 Enter the Date of Admission of the Patient:2020-12-13
 Enter the Payment Amount:1200

-----SUCCESSFULLY ENTERED!!!!!!-----

PLEASE SELECT AN ABOVE OPTION:2

Slno	Patient_Name	Patient_ID	Sex	Age	Illness	Consulting_Doctor	Room_No	Date_of_Admission	Payment
1	abhishek	13003	m	18	fever	ram	23	2021-03-15	12000
2	DINKAR	0031	M	18	CORONA	RAMGOPAL VERMA	31	2020-12-13	1200

PLEASE SELECT AN ABOVE OPTION:5

Enter Slno:1

Enter the Doctor Name:RAJGOPAL VERMA

Enter Doctor_ID:12005

Enter the Sex of the Doctor:M

Enter the Age of the Doctor:48

Enter the Department of the Doctor:VIROLOGY

Enter the Days on which the Doctor is Available:ALL DAYS

Enter the Salary of the Doctor:80000

-----SUCCESSFULLY ENTERED!!!!!!-----

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## 4. BIBLIOGRAPHY

1. Computer Science with Python [Textbook XII] by Sumita Arora
2. <https://docs.python.org>
3. [www.tutorialspoint.com](http://www.tutorialspoint.com)
4. [www.geeksforgeeks.org](http://www.geeksforgeeks.org)