A Project Report On

"HOSPITAL MANAGEMENT"

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This is to certify that **Cdt.DINKAR KUMAR ,** Roll No. 31 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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WORKING DESCRIPTION

This program is designed as an e-HOSPITAL

- It felicitates 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 avaiblity 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 it's 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:")
```

```
    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:")
```

```
    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 entrypay():
    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):
            entrypay()
        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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```

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