HOSPITAL MANAGEMENT

Submitted by

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Under the guidance of

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PROJECT REPORT

Submitted in the partial fulfillment of the requirement

For class XII under the C.B.S.E. syllabus in

Computer Science

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CERTIFICATE

Certified that this is a bonafide report of the project work done by Master **Adwaith Jayan** of Std. XII in **COMPUTER SCIENCE (083)** during the year 2021-2022. This is in partial fulfillment of the Requirement for AISSCE of CBSE, New Delhi.

Internal Examiner   *Principal*

External Examiner

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Thanking You.

Adwaith Jayan

INTRODUCTION

The Hospital Management System (HMS) is designed for Any Hospital to replace their existing manual, paper-based system. This System targets to provide complete solution for Hospital and Health care services. This System can be used in any Hospital, Clinic, Diagnostics or Pathology labs for maintaining patient details and their test results. It integrates the entire resources of a hospital into one integrated software.

This project comes with an interface where the user has to login using their username and password. If login credentials are correct, the user is directed to another window where the user can choose from different dropdowns such as
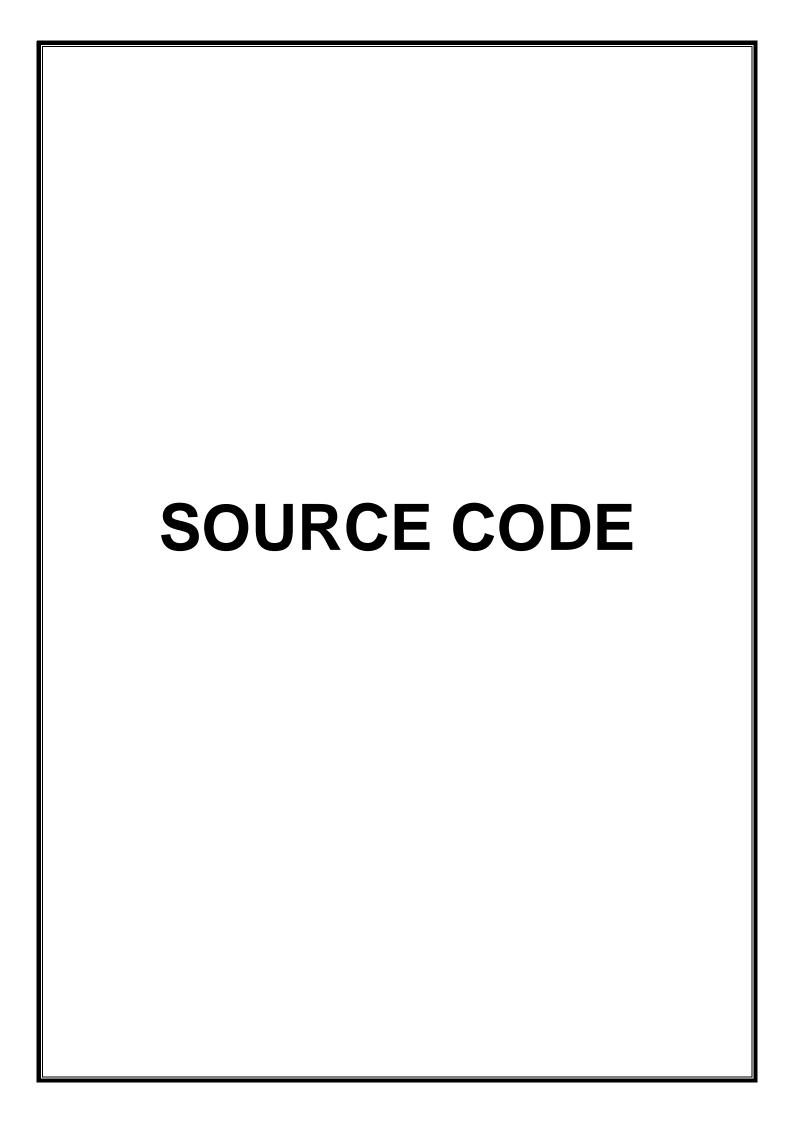
New registration of a
1. Doctor
2. Patient
3. Worker

To display total details of
1. Doctors
2. Patients
3. Workers

Individual details of
1. Doctors
2. Patients
3. Workers

SOURCE CODE

CREATING DATABASE AND TABLES

CREATING DATABASE

```
mysql> CREATE DATABASE PROJECTAGJ;
Query OK, 1 row affected (0.02 sec)
```

CREATING TABLE PATIENT_DETAILS

```
mysql> CREATE TABLE PATIENT_DETAILS(P_NAME VARCHAR(25),P_AGE VARCHAR(10),P_PROBLEMS VARCHAR(30),P_PHONO VARCHAR(11));
Query OK, 0 rows affected (0.02 sec)
```

CREATING TABLE DOCTOR_DETAILS

```
mysql> CREATE TABLE DOCTOR_DETAILS(D_NAME VARCHAR(10),D_AGE VARCHAR(20),D_DEPARTMENT VARCHAR(20),D_PHONENO VARCHAR(11));
Query OK, 0 rows affected (0.03 sec)
```
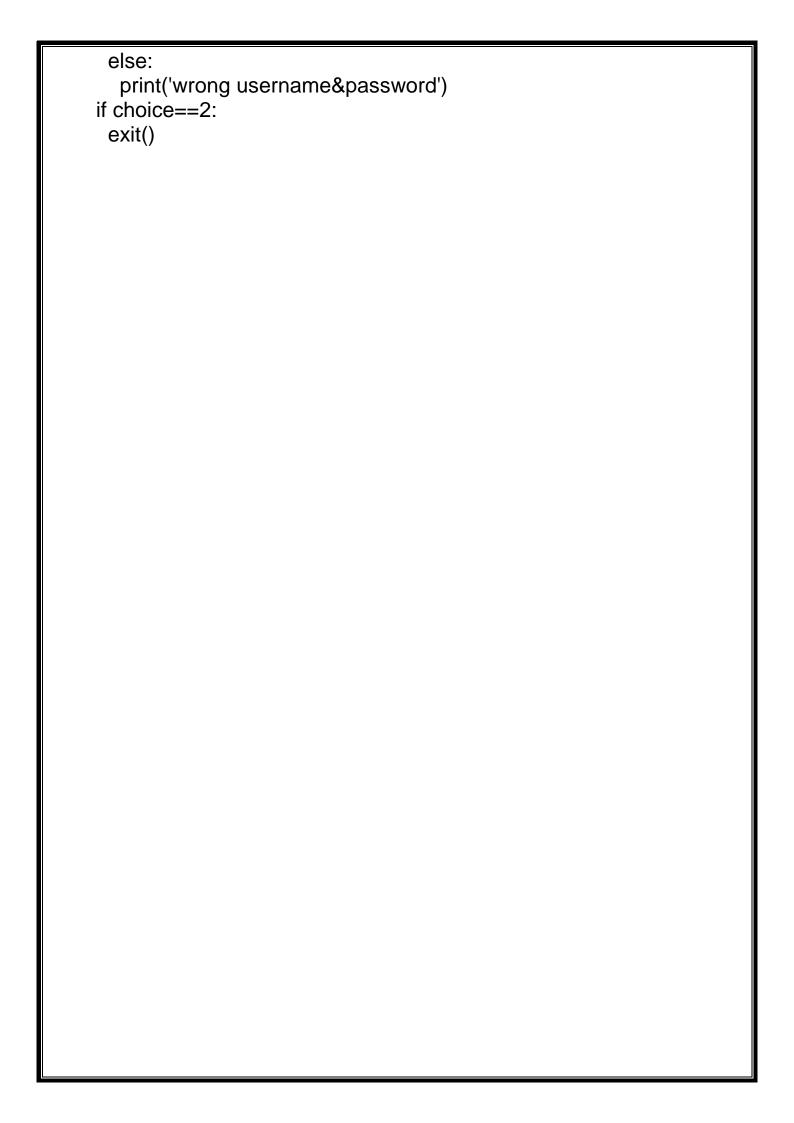
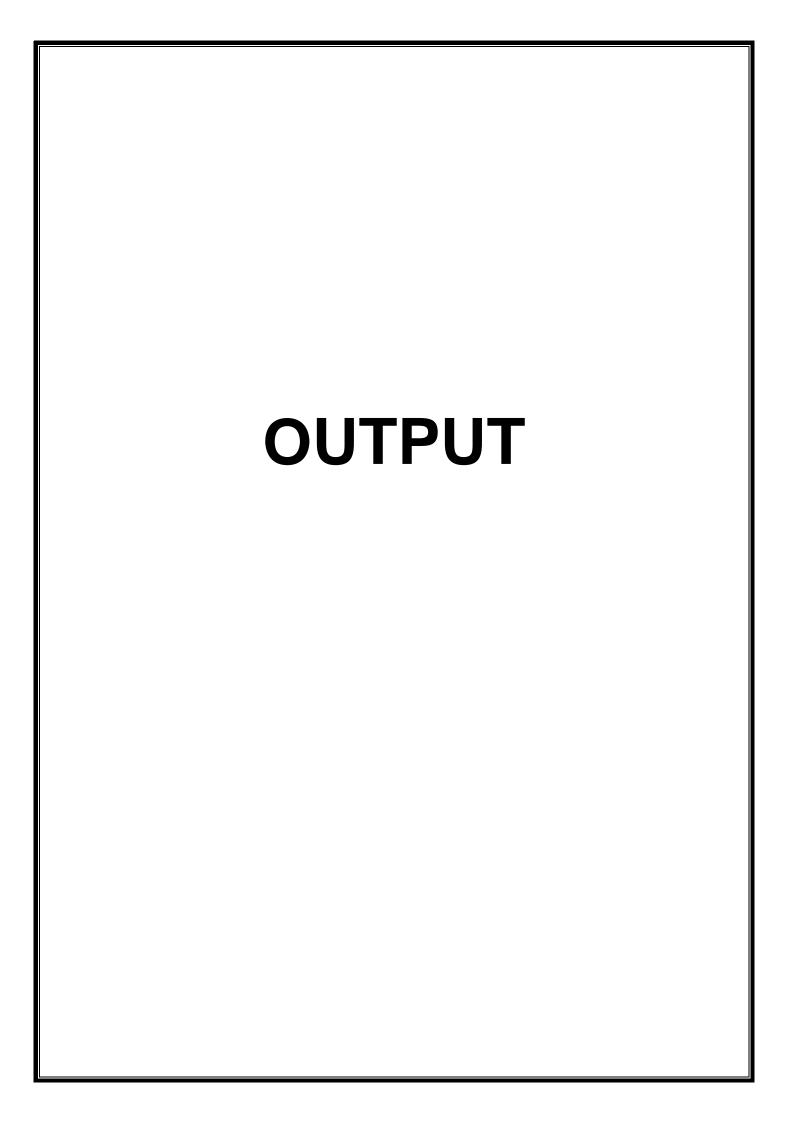CREATING TABLE WORKER_DETAILS

```
mysql> CREATE TABLE WORKER_DETAILS(W_NAME VARCHAR(20),W_AGE VARCHAR(10),W_WORKNAME VARCHAR(20),W_PHONO VARCHAR(20));
Query OK, 0 rows affected (0.04 sec)
```

```python
from sys import exit
import mysql.connector as sql
conn=sql.connect(host='localhost',user='root',passwd='root',databas
e='projectagj')
if conn.is_connected():
  print('successfully connected')
c1=conn.cursor()
print('----------------------------------------------')
print("HOSPITAL MANAGEMENT SYSTEM")
print('----------------------------------------------')
print('"GOD WISHES YOU"')
print("1.LOGIN")
print("2.EXIT")
choice=int(input("ENTER YOUR CHOICE:"))
if choice==1:
  u1=input("ENTER THE USERNAME:")
  pwd1=input("ENTER THE PASSWORD:")
  while u1=='project'and pwd1=='project':
    print('CONNECTED')
    ans='y'
    while ans.lower()=='y':
      print("WELCOME TO HOSPITAL")
      print("successfully connected")
      print('1.RegisteringPatient details')
      print('2.RegisteringDoctor details')
      print('3.RegisteringWorker details')
      print("4.total patient details")
      print("5.total doctor details")
      print("6.total worker details")
      print('7.Patient detail')
      print('8.Doctor detail')
      print('9.Worker detail')
      print('10.Exit')
      choice=int(input('ENTER YOUR CHOICE:'))
      if choice==1:
        p_name=input('Enter Patient Name:')
        p_age=int(input('Enter Age:'))
        p_problems=input('Enter the Problem/Disease:')
        p_phono=int(input('Enter Phone number:'))
        sql_insert="insert into patient_details
values("""+p_name+"','"+str(p_age)+"','"+p_problems+"','"+str(p_phon
```

```python
o)+")"
        c1.execute(sql_insert)
        print('SUCCESSFULLY REGISTERED')
        conn.commit()

    elif choice==2:
        d_name=input('Enter Doctor Name:')
        d_age=int(input('Enter Age:'))
        d_department=input('Enter the Department:')
        d_phono=int(input('Enter Phone number:'))
        sql_insert="insert into doctor_details
values('"""+d_name+"','"+str(d_age)+",'"+d_department+"','"+str(d_ph
ono)+")"
        c1.execute(sql_insert)
        print('successfully registered')
        conn.commit()

    elif choice==3:
        w_name=input('Enter Worker Name:')
        w_age=int(input('Enter Age:'))
        w_workname=input('Enter type of work:')
        w_phono=int(input('Enter Phone number:'))
        sql_insert="insert into worker_details
values('"""+w_name+"','"+str(w_age)+",'"+w_workname+"','"+str(w_ph
ono)+")"
        c1.execute(sql_insert)
        print('successfully registered')
        conn.commit()

    elif choice==4:
        sql_w='select*from patient_details '
        c1.execute(sql_w)
        r = c1.fetchall()
        for i in r :
            print(i)

    elif choice==5:
        sql_x="select*from doctor_details"
        c1.execute(sql_x)
        s=c1.fetchall()
        for i in s:
```

```python
        print(i)

    elif choice==6:
      sql_y="select*from worker_details"
      c1.execute(sql_y)
      t=c1.fetchall()
      for i in t:
        print(i)

    elif choice==7:
      h=input("Enter the name:")
      sql_w='select * from patient_details where
p_name=("{}")'.format(h)
      c1.execute(sql_w)
      u = c1.fetchall()
      for i in u:
        print(i)

    elif choice==8:
      d=input("Enter the name:")
      sql_d='select * from doctor_details where
d_name=("{}")'.format(d)
      c1.execute(sql_d)
      v=c1.fetchall()
      for i in v:
        print(i)

    elif choice==9:
      f=input("Enter the name:")
      sql_f='select * from worker_details where
w_name=("{}")'.format(f)
      c1.execute(sql_f)
      w=c1.fetchall()
      for i in w:
        print(i)

    elif choice==10:
      exit()
      break
    ans=input("Enter New Data Or Coninue(Y/N)")
```

```python
    else:
     print('wrong username&password')
 if choice==2:
  exit()
```

```
successfully connected
-----------------------------------------------
HOSPITAL MANAGEMENT SYSTEM
-----------------------------------------------
"GOD WISHES YOU"
1.LOGIN
2.EXIT
ENTER YOUR CHOICE:1
ENTER THE USERNAME:project
ENTER THE PASSWORD:project
CONNECTED
WELCOME TO HOSPITAL
successfully connected
1.RegisteringPatient details
2.RegisteringDoctor details
3.RegisteringWorker details
4.total patient details
5.total doctor details
6.total worker details
7.Patient detail
8.Doctor detail
9.Worker detail
10.Exit
ENTER YOUR CHOICE:1
```

```
Enter Patient Name:vishnu
Enter Age:45
Enter the Problem/Disease:Fever
Enter Phone number:7845123690
SUCCESSFULLY REGISTERED
Enter New Data Or Coninue(Y/N)Y
WELCOME TO HOSPITAL
successfully connected
1.RegisteringPatient details
2.RegisteringDoctor details
3.RegisteringWorker details
4.total patient details
5.total doctor details
6.total worker details
7.Patient detail
8.Doctor detail
9.Worker detail
10.Exit
ENTER YOUR CHOICE:1
Enter Patient Name:ATHUL VERMA
Enter Age:6
Enter the Problem/Disease:COUGH AND COLD
Enter Phone number:7896541230
SUCCESSFULLY REGISTERED
```

```
successfully connected
1.RegisteringPatient details
2.RegisteringDoctor details
3.RegisteringWorker details
4.total patient details
5.total doctor details
6.total worker details
7.Patient detail
8.Doctor detail
9.Worker detail
10.Exit
ENTER YOUR CHOICE:2
Enter Doctor Name:AJITH K
Enter Age:36
Enter the Department:PEDIATRICIAN
Enter Phone number:7854123678
successfully registered
Enter New Data Or Coninue(Y/N)Y
```

```
WELCOME TO HOSPITAL
successfully connected
1.RegisteringPatient details
2.RegisteringDoctor details
3.RegisteringWorker details
4.total patient details
5.total doctor details
6.total worker details
7.Patient detail
8.Doctor detail
9.Worker detail
10.Exit
ENTER YOUR CHOICE:3
Enter Worker Name:HARI M
Enter Age:29
Enter type of work:RECEPTIONIST
Enter Phone number:9632581407
successfully registered
Enter New Data Or Coninue(Y/N)Y
```

```
ENTER YOUR CHOICE:4
('vishnu', '45', 'Fever', '7845123690')
('ATHUL VERMA', '6', 'COUGH AND COLD', '7896541230'
('JUGAL S', '16', 'DENGUE', '8246795130')
('AMAL R', '64', 'KIDNEY FAILURE', '7410326589')
Enter New Data Or Coninue(Y/N)Y
WELCOME TO HOSPITAL
successfully connected
1.RegisteringPatient details
2.RegisteringDoctor details
3.RegisteringWorker details
4.total patient details
5.total doctor details
6.total worker details
7.Patient detail
8.Doctor detail
9.Worker detail
10.Exit
ENTER YOUR CHOICE:5
('AJITH K', '36', 'PEDIATRICIAN', '7854123678')
('RAJKUMAR V', '49', 'CARDIOLOGY', '8456791230')
('VEENA P', '35', 'NEPHROLOGY', '7546123087')
Enter New Data Or Coninue(Y/N)Y
```

```
ENTER YOUR CHOICE:7
Enter the name:AMAL R
('AMAL R', '64', 'KIDNEY FAILURE', '7410326589')
Enter New Data Or Coninue(Y/N)Y
WELCOME TO HOSPITAL
successfully connected
1.RegisteringPatient details
2.RegisteringDoctor details
3.RegisteringWorker details
4.total patient details
5.total doctor details
6.total worker details
7.Patient detail
8.Doctor detail
9.Worker detail
10.Exit
ENTER YOUR CHOICE:8
Enter the name:VEENA P
('VEENA P', '35', 'NEPHROLOGY', '7546123087')
Enter New Data Or Coninue(Y/N)Y
```

CONCLUSION

The project has been challenging and informative we gained deep knowledge about the trivial aspects of python programming and MySQL

Hospital management is a user-friendly system that has significant features needed for the ideal management of a hospital. Our project comes with the essential features such as registration of a new patient, new doctors, viewing total details of Patients, doctors or other staffs. This project can be further expanded by adding features for pharmacy details, online appointment facilities, and billing details along with an improved security system.

The fast-growing use of internet confirms the good future and scope of the proposed project. Finally, it has taught about the valuable lifelong lesson about the importance of working and interacting together.

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