SREE SANKARA ENGLISH MEDIUM SCHOOL

KURUPPANKULANGARA
CHERTHALA

(C.B.S.E. AFFNO:930384)

ACADEMIC YEAR: 2022-23

COMPUTER PROJECT

PROJECT REPORT ON

Hospital Management

ROLL NO	:	10
NAME	:	Govind Krishnan A.P
CLASS	:	XII
SUBJECT	:	Computer Science
SUB CODE	:	083

SREE SANKARA ENGLISH MEDIUM SCHOOL

CERTIFICATE

This is to certify that **Govind Krishnnan A.p** Roll No:10 has successfully completed the project Work entitled **Hospital Management** in the subject Computer Science (083) laid down in theregulations of CBSE for the purpose of Practical Examination in Class XII to be held in Sree Sankara English Medium School, Cherthala on **2022-23**.

Dr. U SURESH KUMAR

PRINCIPAL

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SREE SANKARA ENGLISH MEDIUM SCHOOL
KURUPPANKULANGARA.P.O, CHERTHALA
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INTERNAL EXAMINER

EXTERNAL EXAMINER

18/01/23

DECLARATION

I **Govind Krishnan A.P** hereby declare that this Project work entitled **"Hospital Management"** is done by me as a part of my XII course under the guidance of Mrs. **Lakshmi B**, Computer Science teacher of Sree Sankara English Medium School Cherthala.

Place:
Date:

Signature of the Candidate

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ACKNOWLEDGEMENT

This project **"Hospital Management"** is done as perCBSE syllabus and as part of my curriculum. This time I am utilizing to thank all the people who have been concerned with this project.

Primarily I would thank God for being able to complete this project with success. Then I would like to thank our honorable Principal **Dr. U SURESH KUMAR** sir for allowing us to have the extensive use of the school facilities to the project.

My sincere thanks **to Mrs. Lakshmi. B** our guide who critically reviewed my project and helped in solving each and every problem occurred during implementation of the project.

I also express my sincere thanks to my parents, classmates and other people who have helped me in bringing out this project.

Thanking you

Govind Krishnan A.P

PROJECT ON HOSPITAL MANAGEMENT

INTRODUCTION

Through the project of "**Hospital Management**" we can easily able to access the doctor details and patient details easily. The system can make users work faster and reliable when it comes to inputting data. It helps register complete patient in formation. Using the system we can efficiently check the patient as well as doctor details. It captures and stores the medical history, treatment required, details of their previous visits, upcoming appointments if any, reports, insurance details and more. It helps eliminate the need to get these details on every visit. It is cost effective. It reducs the scope of error. It increases the data security and Retrieve-ability.

OBJECTIVES OF THE PROJECT

The objective of this project is to let the students apply the programming knowledge into a real- world situation/problem and exposed the students how programming skills helps in developing a good software.

1. Write programs utilizing modern software tools.

2. Apply object-oriented programming principles effectively when developing small to medium sized projects.
3. Write effective procedural code to solve small to medium sized problems.

4. Students will demonstrate a breadth of knowledge in computer science, as exemplified in the areas of systems, theory and software development.
5. Students will demonstrate ability to conduct research or applied Computer Science project, requiring writing and presentation skills which exemplify scholarly style in computer science.

PROPOSED SYSTEM

Today one cannot afford to rely on the fallible human beings of be really wants to stand against today's merciless competition where not to wise saying **"to err is human"** no longer valid, it's outdated to rationalize your mistake. So, to keep pace with time, to bring about the best result without malfunctioning and greater efficiency so to replace the unending heaps of flies with a much-sophisticated hard disk of the computer.

One must use the data management software. Software has been an ascent in atomization various organizations. Many software products working are now in markets, which have helped in making the organizations work easier and efficiently. Data management initially had to maintain a lot of ledgers and a lot of paperwork must be done but now software product on this organization has made their work faster and easier. Now only this software must be loaded on the computer and work can be done.

This prevents a lot of time and money. The work becomes fully automated and any information regarding the organization can be obtained by clicking the button. Moreover, now it's an age of computers of and automating such an organization gives the better look.

MODULES USED

USER

- User can add patient details
- User can see the available doctors
- User can able to cancel the consultation

ADMIN

- Admin can add new doctors
- Admin can see the list of doctor details
- Admin can able to delete the record the doctors as well as patients

SOURCE CODE

SOURCE CODE FOR Hospital Managment

Creating Database

```
import mysql.connector

con=mysql.connector.connect(host='localhost', user= 'root', passwd='root')
ob=con.cursor()
ob.execute("create database hospitalm")
cons=mysql.connector.connect(host='localhost', user= 'root', passwd='root', database ='hospitalm')
ob.execute("use hospitalm")
ob.execute("use hospitalm")

ob.execute("create table users(idno int, Regdat DATE, name char(15),age int, gender char(1))")
ob.execute("create table docs(name char(15), gender char(1), dept char(5), exp int, fee int)")
print("Database Created.")
```

Administration

```
import mysql.connector
print ("""
*****************************ADMINISTRATION*****************************
""")
print("Welcome To Administrative Block")
admin=mysql.connector.connect(host='localhost', user='root', passwd='root', database='hospitalm')
cu=admin.cursor()
if admin.is_connected():
   print("Login Successful!!")
while True:
  print("""
  *****************************SELECT COMMAND*****************************
```

```
                1. Add New Doctors
                2. Delete Doctors
                3. Log Out!
    """)

    ch=int(input("Enter Your Choice: "))
    if ch==1:
       name=input("Enter the doctor's name: ")
       gender=input("Enter the doctor's Gender: ")
       dept=input("Enter the doctor's Department: ")
       exp=input("Enter the doctor's Years of Experience: ")
       fee=input("Enter the doctor's Consultation fee: ")
       cu.execute("insert into docs values('{}','{}','{}',{},{})".format(name, gender, dept, exp, fee))
       admin.commit()
       print("Values Added!")
    if ch==2:
       name=input("Enter the doctor's name you want to delete: ")
       cu.execute("delete from docs where name='{}'".format(name))
       admin.commit()
       print("Deleted!!")
    if ch==3:
       exit()
```

Hospital Management

```
import mysql.connector

con=mysql.connector.connect(host='localhost', user= 'root', passwd='root', database = 'hospitalm')
ob=con.cursor()
t=True
while t==True:

   print("""
******************************Hospital Management******************************
   """)
   print("""
                1.New User
                2.Registered User
                3.Available Doctors
                4.Exit
   """)
   ch=int(input("Enter Your Choice: "))

   if ch==1:
      idno=int(input("Enter the UserID: "))
      name=input("Enter The Patient's Name: ")
      Regdat=input("Today's Date(YYYY/MM/DD): ")
      age=int(input("Enter The Patient's age: "))
      gender=input("Enter The Patient's Gender(F/M): ")
      q="insert into users values({},'{}','{}',{},'{}')".format(idno, Regdat, name, age, gender)
      ob.execute(q)
      print("Values Added")
      con.commit()
   if ch==2:
      s_id=int(input("Enter The Patient's UserID: "))
      ob.execute("select * from users where idno={}".format(s_id))
      data=ob.fetchone()
```

```
    print(data)
    con.commit()
  if ch==3:
    print("""
    ******************************Available Doctors*******************************

                        1. Psychiatrist
                        2. Cardiologist
                        3. Orthologist
                        4. Phisician
                        5. General Suergeon
                        6. Pediatrition
                        7. Nurologist
                        8. Neuro Sugeron
                        9. Pediatric Surgeon
                        10. Ooncologist
    """)
    c2=int(input("Enter Your Choice: "))
    if c2==1:
       ob.execute("select * from docs where dept = 'psy'")
       p=ob.fetchall()
       for i in p:
          print (i)
    if c2==2:
       ob.execute("select * from docs where dept = 'card'")
       p=ob.fetchall()
       for i in p:
          print (i)
    if c2==3:
       ob.execute("select * from docs where dept = 'orth'")
       p=ob.fetchall()
       for i in p:
          print (i)
    if c2==4:
       ob.execute("select * from docs where dept = 'phy'")
       p=ob.fetchall()
       for i in p:
          print (i)
    if c2==5:
       ob.execute("select * from docs where dept = 'GS'")
       p=ob.fetchall()
       for i in p:
          print (i)
    if c2==6:
       ob.execute("select * from docs where dept = 'ped'")
       p=ob.fetchall()
       for i in p:
          print (i)
    if c2==7:
       ob.execute("select * from docs where dept = 'nur'")
       p=ob.fetchall()
       for i in p:
          print (i)
    if c2==8:
       ob.execute("select * from docs where dept = 'NS'")
       p=ob.fetchall()
       for i in p:
          print(i)
```

```
    if c2==9:
        ob.execute("select * from docs where dept = 'PS'")
        p=ob.fetchall()
        for i in p:
            print (i)
    if c2==10:
        ob.execute("select * from docs where dept = 'oonco'")
        p=ob.fetchall()
        for i in p:
            print (i)
if ch==4:
    exit()
```

OUTPUT

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| emp                |
| hospital           |
| hospitalm          |
| hover              |
| information_schema |
| mydb               |
| mysql              |
| performance_schema |
| rabbit             |
| school             |
| sports             |
| stud               |
| sys                |
+--------------------+
13 rows in set (0.00 sec)

mysql> use hospitalm;
Database changed
mysql> show tables;
+---------------------+
| Tables_in_hospitalm |
+---------------------+
| docs                |
| users               |
+---------------------+
2 rows in set (0.14 sec)
```

"IDLE Shell 3.10.5"

File Edit Shell Debug Options Window Help

```
Python 3.10.5 (tags/v3.10.5:f377153, Jun  6 2022, 16:14:13) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: E:\Hospital Managment\Administration.py ==========

**********ADMINISTRATION**********

Welcome To Administrative Block
Login Successful!!

**********SELECT COMMAND**********
                        1. Add New Doctors
                        2. Delete Doctors
                        3. Log Out!

Enter Your Choice:
```

```
========== RESTART: E:\Hospital Managment\Administration.py ==========

**********ADMINISTRATION**********

Welcome To Administrative Block
Login Successful!!

    **********SELECT COMMAND**********
                        1. Add New Doctors
                        2. Delete Doctors
                        3. Log Out!

Enter Your Choice: 1
Enter the doctor's name: Manoj
Enter the doctor's Gender: M
Enter the doctor's Department: PS
Enter the doctor's Years of Experience: 4
Enter the doctor's Consultation fee: 300
Values Added!
```

"IDLE Shell 3.10.5"

File Edit Shell Debug Options Window Help

```
Python 3.10.5 (tags/v3.10.5:f377153, Jun  6 2022, 16:14:13) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> ========== RESTART: E:\Hospital Managment\Administration.py ==========

**********ADMINISTRATION**********

Welcome To Administrative Block
Login Successful!!

    **********SELECT COMMAND**********
                        1. Add New Doctors
                        2. Delete Doctors
                        3. Log Out!

Enter Your Choice: 2
Enter the doctor's name you want to delete: Shyam
Deleted!!

    **********SELECT COMMAND**********
                        1. Add New Doctors
                        2. Delete Doctors
                        3. Log Out!

Enter Your Choice:
```

```
*IDLE Shell 3.10.5*
File  Edit  Shell  Debug  Options  Window  Help
Python 3.10.5 (tags/v3.10.5:f377153, Jun  6 2022, 16:14:13) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: E:\Hospital Managment\Hospital.py ==========

**********Hospital Management**********


                        1.New User
                        2.Registered User
                        3.Available Doctors
                        4.Exit

Enter Your Choice: 1
Enter the UserID: 1
Enter The Patient's Name: Manu
Today's Date(YYYY/MM/DD): 2022-10-22
Enter The Patient's age: 49
Enter The Patient's Gender(F/M): M
Values Added

**********Hospital Management**********


                        1.New User
                        2.Registered User
                        3.Available Doctors
                        4.Exit

Enter Your Choice:
```

```
**********Hospital Management**********


                        1.New User
                        2.Registered User
                        3.Available Doctors
                        4.Exit

Enter Your Choice: 2
Enter The Patient's UserID: 1
(1, datetime.date(2022, 10, 22), 'Manu', 49, 'M')

**********Hospital Management**********


                        1.New User
                        2.Registered User
                        3.Available Doctors
                        4.Exit

>>>
========== RESTART: E:\Hospital Managment\Hospital.py ==========

**********Hospital Management**********


                        1.New User
                        2.Registered User
                        3.Available Doctors
                        4.Exit

Enter Your Choice: 3

        **********Available Doctors**********

                        1. Psychiatrist
                        2. Cardiologist
                        3. Orthologist
                        4. Phisician
                        5. General Suergeon
                        6. Pediatrition
                        7. Nurologist
                        8. Neuro Sugeron
                        9. Pediatric Surgeon
                        10. Ooncologist

Enter Your Choice: 2
('Lal', 'M', 'card', 2, 150)
('Chandran', 'M', 'card', 1, 100)
('Meenu', 'F', 'card', 5, 400)
('Mary', 'F', 'card', 9, 800)
('Saritha', 'F', 'card', 8, 650)
```

HARDWARE AND SOFTWARE REQUIREMENTS

HARDWARE REQUIREMENTS

1.PROCESSOR - Intel(R) Core (TM) i3-9300 CPU

2.RAM - 4 GB

3.HARD DISK - 500 GB

4.MONITOR - 14.1 OR 15-17 INCH

SOFTWARE REQUIREMENTS

1. OPERATING SYSTEM - WINDOWS 10
2. FRONT END - PYTHON IDLE (Python 3.10 64 -bit)
3. BACK END - MYSQL

BIBLIOGRAPHY

1. Computer science with Python-Class XII by Sumita Arora

2. Website: https//www.w3resource.com

3. https://wikipedia.org