

...PM SHRI KENDRIYA VIDYALAYA...

..... BERHAMPUR.....



तत् त्वं पूषन् अपावृणु  
केन्द्रीय विद्यालय संगठन

*SESSION 2024-25*

**A PROJECT ON**

**HOSPITAL MANAGEMENT**

**~FOR CBSE 2025 EXAMINATION~**

SUBMITTED BY-

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SUBMITTED TO-

**MR. S K Misra**

**PGT(COMP. SCI.)**

# CERTIFICATE

CERTIFICATE This is to certify that SANKIT MAHARANA of class: XII - A of KENDRIYA VIDYALAYA BERTHAMPUR has done his project on

HOSPITAL MANAGEMENT SYSTEM 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**

# ACKNOWLEDGMENT

It is with pleasure that I acknowledge my sincere gratitude to our teacher, MR. S.K. MISRA 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. SHIVPRIYA DASH 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 time that we all shared together

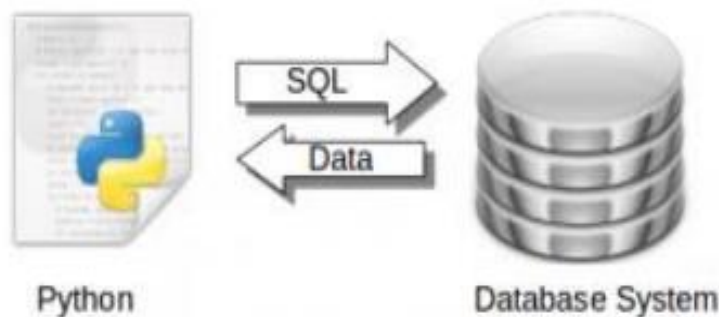
# HARDWARE AND SOFTWARE REQUIRED

## HARDWARE

1. PC
2. MOBILE PHONE

## SOFTWARE

- PYTHON (latest version)
- MYSQL
- PYTHON CONNECTOR



# *HOSPITAL*

**A hospital is a health care institution providing patient treatment with specialized staff and equipment. Hospital are usually funded by public sector by health organizations (for profit or non-profit), by health insurance companies, or by departments (e.g. , surgery, and urgent care etc).**

## *HOSPITAL MANAGEMENT SYSTEM*

**A hospital management system is an information system that manages the aspects of a hospital. This may include the administrative, financial, and medical processing. It is an integrated end-to-end Hospital Management System that provides relevant information across the hospital to support effective decision making for patient care, hospital administration and critical financial accounting, In a seamless flow. This program can look after Inpatients, OPD patients, records, database treatment, status illness, billing etc. it also maintains their**

**hospital info such as ward id, Doctor in charge, Department administering etc.**

## **NEED OF HMS**

- 1. Minimized documentation and no duplication of records.**
- 2. Reduced paper work.**
- 3. Improved patient care**
- 4. Better Administration Control**
- 5. Faster information flow between various departments**
- 6. Smart Revenue Management**
- 7. Effective billing of various services**
- 8. Exact stock information**

# intRODUCTION

The project Hospital Management system includes registration of patients, storing their details into the system, and also computerized billing in the pharmacy, and labs. The software has the facility to give a unique id for every patient and stores the details of every patient and the staff automatically. It includes a search facility to know the current status of each room. User can search availability of a doctor and the details of a patient using the id. The Hospital Management System can be entered using a username and password. It is accessible either by an administrator or receptionist. Only they can add data into the database. The data can be retrieved easily. The interface is very user-friendly. The data are well protected for personal use and makes the data processing very fast. Hospital Management System is powerful, flexible, and easy to use and is designed and developed to deliver real conceivable benefits to hospitals. Hospital Management System is designed for multispeciality hospitals, to cover a wide range of hospital administration and management processes. It is an integrated end-to-end Hospital Management System is a software product suite designed to improve the quality and management of hospital management in the areas of clinical process analysis and activity-based costing. Hospital Management System enables you to develop your organization and improve its effectiveness and quality of work. Managing the key processes efficiently is critical to the success of the hospital helps you manage your processes.

# SYSTEM ANALYSIS

## Existing system:

The current manual system has a lot of paper work. To maintain the records of sale and service manually, is a Time-consuming task. With the increase in database, it will become a massive task to maintain the database. Requires large quantities of file cabinets, which are huge and require quite a bit of space in the office, which can be used for storing records of previous details. The retrieval of records of previously registered patients will be a tedious task. Lack of security for the records, anyone disarrange the records of your system. If someone want to check the details of the available doctors the previous system does not provide any necessary detail of this type.

All this work is done manually by the receptionist and other operational staff and lot of papers are needed to be handled and taken care of. Doctors have to remember various medicines available for diagnosis and sometimes miss better alternatives as they can't remember them at that time.



## + ADVANTAGES:

1. No extra training required.
2. Easy to implement.
3. Can be stored anywhere.
4. Requires minimum effort.

## + DISADVANTAGES:

1. Needs lots of paper.
2. Problem with maintenance.
3. Volumes of data becomes problem.
4. Once data is burned it cannot be reproduced easily.
5. Data handling is problem.

*PYTHON*

*SOURCE*

*CODE*

```
import mysql.connector
```

```
mydb=mysql.connector.connect(host="localhost",user="root",password="admin",database="hospital_management")
```

```
patient={}
```

```
doctors={}
```

```
admin={}
```

```
appointment={}
```

```
def fetchp():
```

```
    cb = mydb.cursor()
```

```
    cb.execute("select * from patient")
```

```
    records = cb.fetchall()
```

```
    for record in records:
```

```
        patient_id = record[0]
```

```
        patient_name = record[1]
```

```
        patient_age = record[2]
```

```
        patient_gender = record[3]
```

```
        patient_phone = record[4]
```

```
        patient_address = record[5]
```

```
        patient_dob = record[6]
```

```
        patient[patient_name] = {"id": patient_id,"name": patient_name,"age":  
patient_age,"gender": patient_gender,"phone": patient_phone,"address":  
patient_address,"DOB": patient_dob}
```

```
    cb.close()
```

```
    print("::::::::::::::::::::::::::::::::::::::::::::")
```

```
    print("Patient data fetched successfully.")
```

```
    print("::::::::::::::::::::::::::::::::::::::::::::")
```

**fetchp()**

**def fetchdr():**

**cb = mydb.cursor()**

**cb.execute("select \* from doctor")**

**records = cb.fetchall()**

**for record in records:**

**doctor\_id = record[0]**

**doctor\_name = record[1]**

**doctor\_email = record[2]**

**doctor\_specialization = record[3]**

**doctor\_phone = record[4]**

**doctor\_address = record[5]**

**doctor\_experience = record[6]**

**doctors[doctor\_email] = {"id": doctor\_id,"name": doctor\_name,"email":  
doctor\_email,"specialization": doctor\_specialization,"phone":  
doctor\_phone,"address": doctor\_address,"experience": doctor\_experience}**

**cb.close()**

**print("::")**

**print("Doctor data fetched successfully.")**

**print("::")**

**fetchdr()**

**def fetchapp():**

**cb = mydb.cursor()**

**cb.execute("select \* from appointment")**

**records = cb.fetchall()**

**for record in records:**

**appointment\_id = record[0]**

```

    patient_id = record[1]
    doctor_id = record[2]
    appointment_date = record[3]
    appointment_reason = record[4]
    appointment_status = record[5]

    appointment[appointment_id] = {"patient_id": patient_id,"doctor_id":
doctor_id,"appointment_date": appointment_date,"reason":
appointment_reason,"status": appointment_status}

    cb.close()

    print("::::::::::::::::::::::::::::::::::::::::")
    print("Appointment data fetched successfully.")
    print("::::::::::::::::::::::::::::::::::::::::")

```

**fetchapp()**

**def create\_table():**

```

    mycursor = mydb.cursor()
    mycursor.execute("""
        create table if not existspatient (
            id int AUTO_INCREMENT PRIMARY KEY,
            name varchar(50) not null,
            age int not null,
            gender VARCHAR(10) not null,
            phone VARCHAR(15) not null,
            address varchar(50) not null,
            DOB DATE not null );""")
    mycursor.execute("""
        create table if not existsdoctor (
            id int PRIMARY KEY,
            name varchar(50) not null,

```

**email varchar(50) not null unique,  
specialization varchar(50) not null,  
phone VARCHAR(15) not null,  
address varchar(50) not null,  
experience int not null );''''')**

**mycursor.execute(''''''**

**create table if not exists appointment (**

**id int PRIMARY KEY,**

**patient\_id int not null,**

**doctor\_id int not null,**

**appointment\_date DATE not null,**

**reason varchar(50),**

**status varchar(50) DEFAULT 'Scheduled',**

**FOREIGN KEY (patient\_id) REFERENCES patient(id),**

**FOREIGN KEY (doctor\_id) REFERENCES doctor(id) ); ''''')**

**create\_table()**

**def patient\_appointment\_details(*patient\_name*, *patient\_phone*):**

***if patient\_name* not in patient or patient[*patient\_name*]["phone"] !=  
*patient\_phone*:**

**print("Patient not found.")**

**cb = mydb.cursor()**

**cb.execute("select \* from appointment where patient\_id = %s",  
(patient[*patient\_name*]["id"],))**

**records = cb.fetchall()**

***if* records:**

**print("Your Appointment Details:")**

***for* record *in* records:**

**appointment\_id = record[0]**

```
appointment_doctor_id = record[2]
appointment_date = record[3]
appointment_reason = record[4]
appointment_status = record[5]

cb.execute("select name, specialization from doctor where id = %s",
(appointment_doctor_id,))

doctor_record = cb.fetchone()
doctor_name = doctor_record[0]
doctor_specialization = doctor_record[1]
print("Appointment ID: {}".format(appointment_id))
print("Doctor Name: {}".format(doctor_name))
print("Specialization: {}".format(doctor_specialization))
print("Appointment Date: {}".format(appointment_date))
print("Reason: {}".format(appointment_reason))
print("Status: {}".format(appointment_status))
print()

else:
    print("No appointments found for this patient.")

cb.close()
```

```
def patient_login():
    print("::::::::::::::::::::::::::::::::::::")
    print("Patient Login")
    print("::::::::::::::::::::::::::::::::::::")
    name = input("Enter your name: ")
    phone = input("Enter your phone number: ")
    if name not in patient or patient[name]["phone"] != phone:
        print("Invalid credentials. Patient not found.")
```

```
print("Login successful!")
print("::::::::::::::::::::::::::::::::::::::::")
while True:
    print("1. View My Details")
    print("2. View Appointment Details")
    print("3. Logout")
    choice = input("Enter your choice: ")
    if choice == "1":
        print("\nYour Details:")
        print("ID: ", patient[name]["id"])
        print("Name: ", patient[name]["name"])
        print("Age: ", patient[name]["age"])
        print("Gender: ", patient[name]["gender"])
        print("Address: ", patient[name]["address"])
        print("Phone: ", patient[name]["phone"])
        print("DOB: ", patient[name]["DOB"])
        print("::::::::::::::::::::::::::::::::::::::::")
    elif choice == "2":
        patient_appointment_details(name, phone)
    elif choice == "3":
        print("Logging out...")
        break
    else:
        print("Invalid choice. Please try again.")
```

```
def new_patient_login():
    name = input("Enter your name: ")
    dob = input("Enter your date of birth (YYYY-MM-DD): ")
```



```

age = int(input("Enter your age: "))
phone = input("Enter your phone number: ")
gender = input("Enter your gender: ")
address = input("Enter your address: ")

if name in patient and patient[name]["phone"] == phone:
    print("Patient already exists. Please login instead.")

cb = mydb.cursor()

cb.execute("insert into patient (name, DOB, age, phone, gender, address)
VALUES (%s, %s, %s, %s, %s, %s)", (name, dob, age, phone, gender, address))

mydb.commit()

print("Patient registered successfully.")

cb.execute("select id from patient where name = %s AND phone = %s",
(name, phone))

patient_id = cb.fetchone()[0]

patient[name] = {"id": patient_id, "name": name, "age": age, "gender":
gender, "phone": phone, "address": address, "DOB": dob}


cb.close()

print("Login successful.")

print("Chose 1 for my details")
print("Chose 2 for appoint_details")

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

if choice == 1:
    print("ID: ", patient[name]["id"])
    print("Name: ", patient[name]["name"])
    print("Age: ", patient[name]["age"])
    print("Gender: ", patient[name]["gender"])
    print("Address: ", patient[name]["address"])
    print("Phone: ", patient[name]["phone"])
    print("DOB: ", patient[name]["DOB"])

```

***elif choice == 2:***

**patient\_appointment\_details(name, phone)**

***else:***

**print("Invalid choice")**

**def signup\_patient():**

***# ""Handles user signup. ""***

**print("::")**

**print("Enter 0 for Go back")**

**print("Enter 1 for patient login")**

**print("Enter 2 for new patient registration" )**

**print("::")**

***try:***

**x = int(input("Enter your choice: "))**

***if x == 1:***

**patient\_login()**

***elif x == 2:***

**new\_patient\_login()**

***elif x == 0:***

**main\_menu()**

***else:***

**print("Invalid choice. Please try again.")**

***except:***

**print("Invalid input. Please enter a number.")**

**def doctor\_appointment\_details():**

**email = input("Enter your email: ")**

***if email not in doctors:***

```
print("Doctor not found.")

doctor_id = doctors[email]["id"]

cb = mydb.cursor()

cb.execute("select * from appointment where doctor_id = %s", (doctor_id,))

records = cb.fetchall()

if records:

    print("\nYour Appointment Details:")

    for record in records:

        appointment_id = record[0]

        patient_id = record[1]

        appointment_date = record[3]

        appointment_reason = record[4]

        appointment_status = record[5]

        cb.execute("select name, phone from patient where id = %s",
(patient_id,))

        patient_record = cb.fetchone()

        patient_name = patient_record[0]

        patient_phone = patient_record[1]

        print("Appointment ID: {}".format(appointment_id))

        print("Patient Name: {}".format(patient_name))

        print("Patient Phone: {}".format(patient_phone))

        print("Appointment Date: {}".format(appointment_date))

        print("Reason: {}".format(appointment_reason))

        print("Status: {}".format(appointment_status))

        print()

    else:

        print("No appointments found for this doctor.")

cb.close()
```

```
def new_doctor_login():

    name = input("Enter your name: ")
    email = input("Enter your email: ")
    phone = input("Enter your phone number: ")
    specialization = input("Enter your specialization: ")
    experience = input("Enter your experience: ")
    address = input("Enter your address: ")

    if email in doctors:

        print("Doctor already exists. Please login instead.")

    cb = mydb.cursor()

    cb.execute("insert intoO doctor (name, email, phone, specialization,
experience, address) VALUES (%s, %s, %s, %s, %s, %s)", (name, email, phone,
specialization, experience, address))

    mydb.commit()

    print("Doctor registered successfully.")

    cb.execute("select id from doctor where email = %s", (email,))

    doctor_id = cb.fetchone()[0]

    doctors[email] = {"id": doctor_id,"name": name,"email": email,"phone":
phone,"specialization": specialization,"experience": experience,"address":
address}

    cb.close()

    print("Login successful.")

    print("Chose 1 for my details")

    print("Chose 2 for appoint_details")

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

    if choice == 1:

        print("ID: ", doctors[email]["id"])

        print("Name: ", doctors[email]["name"])

        print("Email: ", doctors[email]["email"])
```

```
print("Phone: ", doctors[email]["phone"])

print("Specialization: ", doctors[email]["specialization"])

print("Experience: ", doctors[email]["experience"])

print("Address: ", doctors[email]["address"])

elif choice == 2:

    doctor_appointment_details()

else:

    print("Invalid choice")

def doctor_login():

    email = input("Enter your email: ")

    if email not in doctors:

        print("Invalid credentials. Doctor not found.")

        return

    print("Login successful!")

    while True:

        print("1. View My Details")

        print("2. View Appointment Details")

        print("3. Logout")

        choice = input("Enter your choice: ")

        if choice == "1":

            print("\nYour Details:")

            print("ID: ", doctors[email]["id"])

            print("Name: ", doctors[email]["name"])

            print("Email: ", doctors[email]["email"])

            print("Phone: ", doctors[email]["phone"])

            print("Specialization: ", doctors[email]["specialization"])

            print("Experience: ", doctors[email]["experience"])

            print("Address: ", doctors[email]["address"])
```

**print()**

***elif* choice == "2":**

**doctor\_appointment\_details()**

***elif* choice == "3":**

**print("Logging out...")**

***break***

***else:***

**print("Invalid choice. Please try again.")**

**def signup\_doctor():**

***"""Handles doctor signup."""***

**print("Enter 0 for Go back")**

**print("Enter 1 for doctor login")**

**print("Enter 2 for new doctor registration" )**

***try:***

**x = int(input("Enter your choice: "))**

***if* x == 1:**

**doctor\_login()**

***elif* x == 2:**

**new\_doctor\_login()**

***elif* x == 0:**

**main\_menu()**

***else:***

**print("!!")**

**print("Invalid choice. Please try again.")**

***except:***

**print("!!")**

```
print("Invalid input. Please enter a number.")
```

```
print("!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!")
```

```
def adddr():
```

```
    cb = mydb.cursor()
```

```
    name = input("Enter doctor's name: ")
```

```
    email = input("Enter doctor's email: ")
```

```
    phone = input("Enter doctor's phone: ")
```

```
    specialization = input("Enter doctor's specialization: ")
```

```
    experience = input("Enter doctor's experience: ")
```

```
    cb.execute("insert intoO doctor (name, email, phone, specialization,  
experience) VALUES (%s, %s, %s, %s, %s)", (name, email, phone,  
specialization, experience))
```

```
    mydb.commit()
```

```
    print("!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!")
```

```
    print("Doctor added successfully.")
```

```
    print("!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!")
```

```
    fetchdr()
```

```
    cb.close()
```

```
def updatedr():
```

```
    email = input("Enter the email of the doctor to update: ")
```

```
    if email in doctors:
```

```
        print("Enter 1 for update name")
```

```
        print("Enter 2 for update phone")
```

```
        print("Enter 3 for update specialization")
```

```
        print("Enter 4 for update experience")
```

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

```
        if choice == 1:
```

```

    name = input("Enter new name: ")

    cb = mydb.cursor()

    cb.execute("update doctor set name = %s where email = %s", (name,
email))

    elif choice == 2:

        phone = input("Enter new phone: ")

        cb = mydb.cursor()

        cb.execute("update doctor set phone = %s where email = %s", (phone,
email))

    elif choice == 3:

        specialization = input("Enter new specialization: ")

        cb = mydb.cursor()

        cb.execute("update doctor set specialization = %s where email = %s",
(specialization, email))

    elif choice == 4:

        experience = input("Enter new experience: ")

        cb = mydb.cursor()

        cb.execute("update doctor set experience = %s where email = %s",
(experience,email))

    mydb.commit()

    print("!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!")

    print("Doctor updated successfully.")

    print("!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!")

    fetchdr()

    cb.close()

else:

    print("Doctor not found.")

def viewdr():

    cb = mydb.cursor()

```



```
cb.execute("select * from doctor")  
records = cb.fetchall()  
print("\nList of Doctors:")  
for record in records:  
    doctor_id = record[0]  
    doctor_name = record[1]  
    doctor_email = record[2]  
    doctor_phone = record[3]  
    doctor_specialization = record[4]  
    doctor_experience = record[5]  
  
    print("ID: {}".format(doctor_id))  
    print("Name: {}".format(doctor_name))  
    print("Email: {}".format(doctor_email))  
    print("Phone: {}".format(doctor_phone))  
    print("Specialization: {}".format(doctor_specialization))  
    print("Experience: {}".format(doctor_experience))  
    print()  
cb.close()
```

```
def deletedr():  
    email = input("Enter the email of the doctor to delete: ")  
    if email in doctors:  
        X = input("Are you sure you want to delete the doctor ? (yes/no): ").lower()  
        if X in 'yes':  
            cb = mydb.cursor()  
            cb.execute("DELETE from doctor where email = %s", (email,))  
            mydb.commit()
```

```
print("Doctor deleted successfully.")
```

```
fetchdr()
```

```
cb.close()
```

```
else:
```

```
print("!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!")
```

```
print("Deletion cancelled.")
```

```
print("!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!")
```

```
else:
```

```
print("!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!")
```

```
print("Doctor not found.")
```

```
def doctor_details():
```

```
while True:
```

```
print("\nDoctor Management Menu:")
```

```
print("!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!")
```

```
print("1. Add Doctor")
```

```
print("2. Update Doctor")
```

```
print("3. View Doctors")
```

```
print("4. Delete Doctor")
```

```
print("5. Exit")
```

```
print("!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!")
```

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

```
if choice == '1':
```

```
    adddr()
```

```
elif choice == '2':
```

```
    updatedr()
```

```
elif choice == '3':
```

```
    viewdr()
```

```
elif choice == '4':
```

```
deletedr()
```

```
elif choice == '5':
```

```
print("Exiting the program...")
```

```
break
```

```
else:
```

```
print("!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!")
```

```
print("Invalid choice. Please try again.")
```

```
print("!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!")
```

```
def add_patient():
```

```
name = input("Enter patient name: ")
```

```
dob = input("Enter patient date of birth (YYYY-MM-DD): ")
```

```
phone = input("Enter patient phone: ")
```

```
gender = input("Enter patient gender: ")
```

```
address = input("Enter patient address: ")
```

```
cb = mydb.cursor()
```

```
cb.execute("insert intoO patient (name, DOB, phone, gender, address)  
VALUES (%s, %s, %s, %s, %s)", (name, dob, phone, gender, address))
```

```
mydb.commit()
```

```
print("::::::::::::::::::::::::::::::::::::::::")
```

```
print("Patient added successfully.")
```

```
print("::::::::::::::::::::::::::::::::::::::::")
```

```
cb.close()
```

```
def update_patient():
```

```
name=input("Enter patient name: ")
```

```
DOB=input("Enter patient date of birth (YYYY-MM-DD): ")
```

```
phone=input("Enter patient phone: ")
```

```
if name in patient and DOB in patient[name] and phone in  
patient[name][DOB]:
```

```

print("::::::::::::::::::::::::::::::::::::::::")
print("Enter 1 to update name")
print("::::::::::::::::::::::::::::::::::::::::")
print("Enter 2 to update DOB")
print("::::::::::::::::::::::::::::::::::::::::")
print("Enter 3 to update phone")
print("::::::::::::::::::::::::::::::::::::::::")
print("Enter 4 to update gender")
print("::::::::::::::::::::::::::::::::::::::::")
print("Enter 5 to update address")
print("::::::::::::::::::::::::::::::::::::::::")
choice=input("Enter your choice: ")
if choice=='1':
    new_name=input("Enter new name: ")
    cb=mydb.cursor()
    cb.execute("update patient set name = %s where name = %s",
(new_name, name))
    print('!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!')
    print("Name updated successfully.")
    print('!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!')
elif choice=='2':
    new_DOB=input("Enter new DOB: ")
    cb=mydb.cursor()
    cb.execute("update patient set DOB = %s where DOB = %s", (new_DOB,
DOB))
    print('!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!')
    print("DOB updated successfully.")
    print('!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!')
elif choice=='3':
    new_phone=input("Enter new phone: ")

```

```

cb=mydb.cursor()

cb.execute("update patient set phone = %s where phone = %s",
(new_phone, phone))

print('!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!')

print("Phone updated successfully.")

print('!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!')

elif choice=='4':

new_gender=input("Enter new gender: ")

cb=mydb.cursor()

cb.execute("update patient set gender = %s where gender = %s",
(new_gender, gender))

print('!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!')

print("Gender updated successfully.")

print('!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!')

elif choice=='5':

new_address=input("Enter new address: ")

cb=mydb.cursor()

cb.execute("update patient set address = %s where address = %s",
(new_address, address))

print('!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!')

print("Address updated successfully.")

print('!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!')

else:

print('!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!')

print("Invalid choice.")

print('!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!')

else:

print('!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!')

print("Patient not found.")

print('!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!')

```

**mydb.commit()**

**fetchp()**

**cb.close()**

**def view\_patients():**

**cb = mydb.cursor()**

**cb.execute("select \* from patient")**

**records = cb.fetchall()**

**print("\nList of Patients:")**

***for* record *in* records:**

**patient\_id = record[0]**

**patient\_name = record[1]**

**patient\_dob = record[6]**

**patient\_phone = record[4]**

**patient\_gender = record[3]**

**patient\_address = record[5]**

**print("ID : ", patient\_id)**

**print("Name: ", patient\_name)**

**print("DOB: ", patient\_dob)**

**print("Phone: ", patient\_phone)**

**print("Gender: ", patient\_gender)**

**print("Address: ", patient\_address)**

**print()**

**cb.close()**

**def delete\_patient():**

**patient\_id = input("Enter the ID of the patient to delete: ")**

```

cb = mydb.cursor()
cb.execute("select * from patient where id = %s", (patient_id))
record = cb.fetchone()
if record:

    X = input("Are you sure you want to delete the patient ? (yes/no): ").lower()
if X == 'yes':

    cb.execute("DELETE from patient where id = %s", (patient_id,))
mydb.commit()
print("::::::::::::::::::::::::::::::::")
print("Patient deleted successfully.")
print("::::::::::::::::::::::::::::::::")
else:

    print("::::::::::::::::::::::::::::::::")
print("Deletion cancelled.")
print("::::::::::::::::::::::::::::::::")
else:

    print("::::::::::::::::::::::::::::::::")
print("Patient not found.")
print("::::::::::::::::::::::::::::::::")
cb.close()

```

```

def patient_details():

    while True:

        print("\nPatient Management Menu:")
        print("1. Add Patient")
        print("2. Update Patient")
        print("3. View Patients")
        print("4. Delete Patient")
        print("5. Exit")

```

```
choice = input("Enter your choice: ")  
if choice == '1':  
    add_patient()  
elif choice == '2':  
    update_patient()  
elif choice == '3':  
    view_patients()  
elif choice == '4':  
    delete_patient()  
elif choice == '5':  
    print("#####")  
    print("Exiting the program...")  
    print("#####")  
    break
```

```
def book_appointment():
```

```
    patient_id = input("Enter your patient ID: ")
```

```
    if patient_id not in patient:
```

```
        print("Patient not found.")
```

```
        return
```

```
    doctor_email = input("Enter the email of the doctor you want to book an  
appointment with: ")
```

```
    if doctor_email not in doctors:
```

```
        print("Doctor not found.")
```

```
        return
```

```
    appointment_date = input("Enter appointment date (YYYY-MM-DD): ")
```

```
    appointment_reason = input("Enter the reason for the appointment: ")
```

```
    cb = mydb.cursor()
```



```
cb.execute("insert intoO appointment (patient_id, doctor_id,  
appointment_date, reason) VALUES (%s, %s, %s, %s)", (patient_id,  
doctors[doctor_email]["id"], appointment_date, appointment_reason))
```

```
mydb.commit()
```

```
print("#####")
```

```
print("#####")
```

```
print("Appointment booked successfully.")
```

```
print("#####")
```

```
print("#####")
```

```
cb.close()
```

```
def to_see_appointement_details():
```

```
cb = mydb.cursor()
```

```
cb.execute("select * from appointment")
```

```
records = cb.fetchall()
```

```
for record in records:
```

```
    appointment_id = record[0]
```

```
    appointment_patient_id = record[1]
```

```
    appointment_doctor_id = record[2]
```

```
    appointment_date = record[3]
```

```
    appointment_reason = record[4]
```

```
    appointment_status = record[5]
```

```
    print(f'Appointment ID: {appointment_id}')
```

```
    print(f'Patient ID: {appointment_patient_id}')
```

```
    print(f'Doctor ID: {appointment_doctor_id}')
```

```
    print(f'Appointment Date: {appointment_date}')
```

```
    print(f'Reason: {appointment_reason}')
```

```
    print(f'Status: {appointment_status}')
```

```
cb.close()
```

```
print("Appointment details fetched successfully.")
```

```
def cancel_appointment():
```

```
    appointment_id = input("Enter the ID of the appointment to cancel: ")
```

```
    cb = mydb.cursor()
```

```
    cb.execute("select * from appointment where id = %s", (appointment_id,))
```

```
    record = cb.fetchone()
```

```
    if record:
```

```
        X = input("Are you sure you want to cancel the appointment ? (yes/no):  
".lower())
```

```
        if X == 'yes':
```

```
            cb.execute("DELETE from appointment where id = %s",  
(appointment_id,))
```

```
            mydb.commit()
```

```
            print("*****")
```

```
            print("Appointment cancelled successfully.")
```

```
            print("*****")
```

```
        else:
```

```
            print("*****")
```

```
            print("Cancellation cancelled.")
```

```
            print("*****")
```

```
def appointement_details():
```

```
    print("Enter 0 for Go back")
```

```
    print("Enter 1 for view appointment details")
```

```
    print("Enter 2 for book appointment")
```

```
    print("Enter 3 for cancel appointment")
```

```
    try:
```

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

```
        if x == 1:
```

```
            to_see_appointement_details()
```

***elif x == 2:***

**book\_appointment()**

***elif x == 3:***

**cancel\_appointment()**

***elif x == 0:***

**main\_menu()**

***else:***

**print("!!")**

**print("Invalid choice. Please try again.")**

**print("!!")**

***except ValueError:***

**print("!!")**

**print("Invalid input. Please enter a number.")**

**print("!!")**

**def admin\_login():**

**admin\_username = input("Enter your admin username: ")**

**admin\_password = input("Enter your admin password: ")**

***if admin\_username in admin and admin\_password ==***  
**admin[admin\_username]:**

**print("Login successful")**

**print("Chose 1 for doctor")**

**print("Chose 2 for patients")**

**print('Chose 3 for book appointment1')**

**x=int(input("Enter your choice :"))**

***if x==1:***

**doctor\_details()**

***elif x==2:***

**patient\_details()**

***elif x==3:***

**appointment\_details()**

***else:***

**print("!!")**

**print("Invalid choice. Please try again.")**

**print("!!")**

***else:***

**print("!!")**

**print("Invalid admin username or password")**

**print("!!")**

**def new\_admin\_login():**

**admin\_username = input("Enter your username: ")**

**admin\_password = input("Enter your password: ")**

**if admin\_username in admin:**

**print("Username already exists. Choose a different one.")**

**else:**

**admin[admin\_username]=admin\_password**

**print("User",admin\_username,"registered successfully!")**

**def signup\_admin():**

***"""Handles admin signup."""***

**print("Enter 0 for Go back")**

**print("Enter 1 for admin login")**

**print("Enter 2 for new admin")**

**try:**

**x = int(input("Enter your choice: "))**

**if x == 1:**

**admin\_login()**

***elif x == 2:***

**new\_admin\_login()**

***elif x == 0:***

**main\_menu()**

***else:***

**print("Invalid choice. Please try again.")**

***except ValueError:***

**print("Invalid input. Please enter a number.")**

**def main\_menu():**

***while True:***

**print("-----  
-----")**

**print("-----  
-----")**

**print("-----Welcome to Hospital Management  
System-----")**

**print("-----  
-----")**

**print("-----  
-----")**

**print("\n\*\*\*\*\*Choose an  
option:\*\*\*\*\*")**

**print("=====")**

**print("[.....]")**

**print("[ 1. Sign up as patient ]")**

**print("[.....]")**

**print("[ 2. Sign up as doctor ]")**

**print("[.....]")**

**print("[ 3. Sign up as admin ]")**

**print("[.....]")**

```
print("[      4. Exit      ]")
print("[.....]")
try:
    choice = int(input("Enter your choice: "))

    if choice == 1:
        signup_patient()
    elif choice == 2:
        signup_doctor()
    elif choice == 3:
        signup_admin()
    elif choice == 4:
        break
    else:
        print("Invalid choice. Please try again.")
except ValueError:
    print("Invalid input. Please enter a number.")
print("Exiting program...")
main_menu()
```

# DATABASE

## #TABLE FOR DOCTORS

```
mysql> SELECT * FROM doctor;
```

id	name	specialization	phone	email	address	experience
1	Dr. Arjun Mehta	Cardiologist	9876543210	arjun.mehta@gmail.com	Banjara Hills, Hyderabad, Telangana	15
2	Dr. Sneha Kapoor	Dermatologist	9865321478	sneha.kapoor@yahoo.com	MG Road, Bangalore, Karnataka	10
3	Dr. Ravi Gupta	Orthopedic Surgeon	9123456789	ravi.gupta@hotmail.com	Connaught Place, New Delhi, Delhi	20
4	Dr. Priya Sharma	Pediatrician	9456123784	priya.sharma@gmail.com	Civil Lines, Jaipur, Rajasthan	12
5	Dr. Anil Kumar	Neurologist	9988776655	anil.kumar@outlook.com	Salt Lake, Kolkata, West Bengal	18
6	Dr. Meera Iyer	Ophthalmologist	9234567891	meera.iyer@gmail.com	Anna Nagar, Chennai, Tamil Nadu	8
7	Dr. Rajesh Patel	General Physician	9345678902	rajesh.patel@gmail.com	Ellis Bridge, Ahmedabad, Gujarat	25
8	Dr. Pooja Singh	Gynecologist	9456732198	pooja.singh@yahoo.com	Sector 50, Noida, Uttar Pradesh	9
9	Dr. Aman Verma	ENT Specialist	9871234560	aman.verma@gmail.com	Model Town, Ludhiana, Punjab	14
10	Dr. Kavita Joshi	Psychiatrist	9898989898	kavita.joshi@gmail.com	Rajpur Road, Dehradun, Uttarakhand	11
11	Dr. Rahul Deshmukh	Oncologist	9123459876	rahul.deshmukh@gmail.com	Hinjewadi, Pune, Maharashtra	16
12	Dr. Nisha Reddy	Endocrinologist	9567894321	nisha.reddy@yahoo.com	Madhapur, Hyderabad, Telangana	10
13	Dr. Sameer Khan	Pulmonologist	9456783214	sameer.khan@gmail.com	Indira Nagar, Lucknow, Uttar Pradesh	12
14	Dr. Anjali Roy	Nephrologist	9876542136	anjali.roy@hotmail.com	Salt Lake, Kolkata, West Bengal	15
15	Dr. Vikram Singh	Urologist	9123465789	vikram.singh@gmail.com	Sector 18, Chandigarh, Punjab	20
16	Dr. Sunita Menon	Radiologist	9345612789	sunita.menon@gmail.com	Koramangala, Bangalore, Karnataka	9
17	Dr. Karan Thakur	Pathologist	9845123678	karan.thakur@yahoo.com	Dadar, Mumbai, Maharashtra	8
18	Dr. Sushmita Das	Gastroenterologist	9234561287	sushmita.das@gmail.com	CR Park, New Delhi, Delhi	13
19	Dr. Akash Jain	Hematologist	9456123498	akash.jain@gmail.com	Civil Lines, Nagpur, Maharashtra	7
20	Dr. Vandana Kaur	Rheumatologist	9899876543	vandana.kaur@gmail.com	Sector 62, Mohali, Punjab	10
21	sankit	neurology	9090909090	sankit@mail	india	6
22	sankit	neurology	9090909090	sankit@gmail.com	india	8
23	ram	cardiologist	9898989090	rama@gmail.com	delhi	5
24	ram	cardiology	9898989090	rama@gmail.com	delhi	8

## # TABLE FOR APPOINTMENTS

```
mysql> select * from appointment;
```

id	patient_id	doctor_id	appointment_date	reason	status
1	1	3	2024-12-30	Routine check-up	Scheduled
2	2	5	2024-12-31	Follow-up for diabetes	Scheduled
3	3	1	2025-01-02	Chest pain and shortness of breath	Scheduled
4	4	7	2025-01-03	General fever and weakness	Scheduled
5	5	4	2025-01-04	Child vaccination	Scheduled
6	6	2	2025-01-05	Skin rash and itching	Scheduled
7	7	6	2025-01-06	Eye irritation and vision issues	Scheduled
8	8	8	2025-01-07	Prenatal consultation	Scheduled
9	9	9	2025-01-08	Hearing difficulty	Scheduled
10	10	10	2025-01-09	Mental health counseling	Scheduled
11	11	11	2025-01-10	Cancer treatment discussion	Scheduled
12	12	12	2025-01-11	Thyroid imbalance	Scheduled
13	13	13	2025-01-12	Cough and breathing problems	Scheduled
14	14	14	2025-01-13	Kidney stone treatment	Scheduled
15	15	15	2025-01-14	Urology check-up	Scheduled
16	16	16	2025-01-15	X-ray and diagnosis	Scheduled
17	17	17	2025-01-16	Pathology test review	Scheduled
18	18	18	2025-01-17	Stomach pain and digestion issues	Scheduled
19	19	19	2025-01-18	Blood disorder consultation	Scheduled
20	20	20	2025-01-19	Joint pain and stiffness	Scheduled

# #TABLE FOR PATIENTS

```
mysql> select * from patient;
```

id	name	gender	phone	address	DOB
1	Aarav Sharma	Male	9876543210	123 MG Road, vivek vihar , odisha	1993-05-15
2	Vivaan Gupta	Male	8765432109	456 Brigade Road, delhi	1998-08-22
3	Aditya Verma	Male	7654321098	789 Indiranagar, odisha	1983-01-30
4	Ananya Rao	Female	6543210987	321 Koramangala, Bangalore, Karnataka	1988-12-12
5	Diya Patel	Female	5432109876	654 Jayanagar, BBSR	1995-03-05
6	Rohan Iyer	Male	4321098765	987 Whitefield, mumbai	1991-07-19
7	Saanvi Nair	Female	3210987654	159 HSR Layout,kochi	1978-11-11
8	Kabir Singh	Male	2109876543	753 Malleshwaram,MADRAS	1994-02-14
9	Kavya Joshi	Female	1098765432	852 Ulsoor, BHATINDA	1973-09-09
10	Arjun Mehta	Male	0987654321	951 BTM Layout, RAE BARELI	2001-06-06
11	Nisha Bhatia	Female	9876543210	147 Rajajinagar, BANARAS	1985-04-04
12	Riya Choudhury	Female	8765432109	258 Malleshwaram, AGRA	1992-10-10
13	Vikram Reddy	Male	7654321098	369 Indiranagar, AMBALA	1996-12-12
14	Pooja Sethi	Female	6543210987	147 Koramangala, KOTA	1989-03-03
15	Rahul Kapoor	Male	5432109876	258 Jayanagar,chandigarh	1982-08-08
16	Sneha Agarwal	Female	4321098765	369 Whitefield, OOTY	1997-05-05
17	Karan Bansal	Male	3210987654	147 HSR Layout, ambala	1984-11-11
18	Tanya Mehta	Female	2109876543	258 Ulsoor, ITANAGAR	1993-02-02
19	Nikhil Joshi	Male	1098765432	369 BTM Layout, Bihar	1990-07-07
20	Ritika Sharma	Female	0987654321	147 Rajajinagar, Kanyakumari	1994-09-09
21	Siddharth Singh	Male	9876543210	258 Malleshwaram, Bankok	1987-01-01
22	Neha Gupta	Female	8765432109	369 Indiranagar, Ahemdabad	1999-03-03
23	Ayaan Khan	Male	7654321098	147 Koramangala, Nasik	1981-06-06
24	Meera Rani	Female	6543210987	258 Jayanagar, Berhampur	1986-12-12
25	Ravi Kumar	Male	5432109876	369 Whitefield, BBSR	2000-05-05
26	Sakshi Yadav	Female	4321098765	147 HSR Layout, Cuttack	1992-10-10
27	Vivek Sharma	Male	3210987654	258 Ulsoor, Delhi	1995-04-04
28	Shweta Patel	Female	2109876543	369 BTM Layout, Bangalore, Karnataka	1988-08-08
29	Rahul Verma	Male	1098765432	147 Rajajinagar, Bangalore, Karnataka	1996-11-11
30	Priya Singh	Female	0987654321	258 Malleshwaram, Dehradun	1991-03-03
31	Aryan Patel	Male	9876543210	369 Indiranagar,Kolkata	1994-06-06
32	Anjali Sharma	Female	8765432109	147 Koramangala, Rameshwaram	1997-09-09
33	Rohan Gupta	Male	7654321098	258 Jayanagar,Thiruvananthapuram	1990-02-02
37	SANKIT	MALE	9090909090	INDIA	2008-09-09



# OUTPUTS

## -DISPLAYING MAIN MENU

```
-----
-----Welcome to Hospital Management System-----
-----
```

\*\*\*\*\*Choose an option:\*\*\*\*\*

```
[.....]
[      1. Sign up as patient      ]
[.....]
[      2. Sign up as doctor       ]
[.....]
[      3. Sign up as admin        ]
[.....]
[      4. Exit                    ]
[.....]
```

Enter your choice: 1

## -SIGN UP AS PATIENT

## 1. FOR PATIENT LOGIN

Enter your choice: 1

.....

Enter 0 for Go back

Enter 1 for patient login

Enter 2 for new patient registration

.....

Enter your choice: 1

.....

## Patient Login

.....

Enter your name: Aarav Sharma

Enter your phone number: 9876543210

Login successful!

.....

Login successful!

.....

1. View My Details
2. View Appointment Details
3. Logout

Enter your choice: 1

Your Details:

ID: 1

Name: Aarav Sharma

Age: 30

Gender: Male

Address: 123 MG Road, vivek vihar , odisha

Phone: 9876543210

DOB: 1993-05-15

.....

1. View My Details
2. View Appointment Details
3. Logout

Enter your choice: 2

Enter your patient name: Aarav Sharma

Enter your phone number: 9876543210

Your Appointment Details:

Appointment ID: 1

Doctor Name: Dr. Ravi Gupta

Specialization: Orthopedic Surgeon

Appointment Date: 2024-12-30

Reason: Routine check-up

Status: Scheduled

1. View My Details
2. View Appointment Details
3. Logout

Enter your choice: 3

Logging out...

## 2.FOR NEW PATIENT REGISTRATION

.....

Enter 0 for Go back

Enter 1 for patient login

Enter 2 for new patient registration

.....

Enter your choice: 2

Enter your name: Sankit

Enter your date of birth (YYYY-MM-DD): 2007-01-01

Enter your age: 17

Enter your phone number: 1234567890

Enter your gender: Male

Enter your address: Brahmapur

Patient registered successfully.

Login successful.

Chose 1 for my details

Chose 2 for appoint\_details

Enter your choice: 1

ID: 36

Name: Sankit

Age: 17

Gender: Male

Address: Brahmapur

Phone: 1234567890

DOB: 2007-01-01

---

# -SIGN UP AS DOCTOR

## 1. FOR DOCTOR LOGIN

\*\*\*\*\*Choose an option:\*\*\*\*\*

```
[ ..... ]
[ 1. Sign up as patient ]
[ ..... ]
[ 2. Sign up as doctor ]
[ ..... ]
[ 3. Sign up as admin ]
[ ..... ]
[ 4. Exit ]
[ ..... ]
```

Enter your choice: 2

Enter 0 for Go back

Enter 1 for doctor login

Enter 2 for new doctor registration

Enter your choice: 1

Enter your email: jane.smith@example.com

Login successful!

1. View My Details

2. View Appointment Details

3. Logout

Enter your choice: 1

Your Details:

ID: 1

Name: Dr. Jane Smith

Email: jane.smith@example.com

Phone: 9876543210

Specialization: Neurology

Experience: 8

Address: 456 Elm St, City, Country

1. View My Details

2. View Appointment Details

3. Logout

Enter your choice: 2

Enter your email: jane.smith@example.com

No appointments found for this doctor.

1. View My Details

2. View Appointment Details

3. Logout

Enter your choice: 3

Logging out...

## 2.FOR NEW DOCTOR REGISTRATION

```
.
Enter your choice: 2
Enter 0 for Go back
Enter 1 for doctor login
Enter 2 for new doctor registration
Enter your choice: 2
Enter your name: Sujal
Enter your email: suj100@gmail.com
Enter your phone number: 1122334455
Enter your specialization: Heart Surgeon
Enter your experience: 15
Enter your address: Brahmapur
Doctor registered successfully.
Login successful.
Chose 1 for my details
Chose 2 for appoint_details
Enter your choice: 1
ID: 22
Name: Sujal
Email: suj100@gmail.com
Phone: 1122334455
Specialization: Heart Surgeon
Experience: 15
Address: Brahmapur
```

---

# -SIGN UP AS ADMIN

## 1.REGISTRATION FOR NEW ADMIN

```
*****Choose an option:*****
=====
[ ..... ]
[ 1. Sign up as patient ]
[ ..... ]
[ 2. Sign up as doctor ]
[ ..... ]
[ 3. Sign up as admin ]
[ ..... ]
[ 4. Exit ]
[ ..... ]
Enter your choice: 3
Enter 0 for Go back
Enter 1 for admin login
Enter 2 for new admin
Enter your choice: 2
Enter your username: Ram
Enter your password: 123
User Ram registered successfully!
```

## 2. FOR ADMIN LOGIN

### i) For Doctor

```
=====
[ ..... ]
[ 1. Sign up as patient ]
[ ..... ]
[ 2. Sign up as doctor ]
[ ..... ]
[ 3. Sign up as admin ]
[ ..... ]
[ 4. Exit ]
[ ..... ]
Enter your choice: 3
Enter 0 for Go back
Enter 1 for admin login
Enter 2 for new admin
Enter your choice: 1
Enter your admin username: Ram
Enter your admin password: 123
Login successful
Chose 1 for doctor
Chose 2 for patients
Chose 3 for book appointment1
Enter your choice :1
```

Doctor Management Menu:

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

1. Add Doctor
2. Update Doctor
3. View Doctors
4. Delete Doctor
5. Exit

**=>ADD DOCTOR**

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

Enter your choice: 1

Enter doctor's name: Sidhant

Enter doctor's email: sidhant00@gmail.com

Enter doctor's phone: 1111122222

Enter doctor's specialization: Brain Surgeon

Enter doctor's experience: 13

Enter doctor's address: Brahmapur

Doctor added successfully.

::

Doctor data fetched successfully.

::

Doctors Dictionary: {'jane.smith@example.com': {'id': 1, 'name': 'Dr. Jane Smith', 'email': 'jane.smith@example.com', 'phone': '1234567890', 'specialization': 'Cardiologist', 'experience': 10}, 'alice.brown@example.com': {'id': 2, 'name': 'Dr. Alice Brown', 'email': 'alice.brown@example.com', 'phone': '9876543210', 'specialization': 'Neurologist', 'experience': 8}, {'id': 3, 'name': 'Sidhant', 'email': 'sidhant00@gmail.com', 'specialization':

---

Doctor Management Menu:

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

1. Add Doctor
2. Update Doctor
3. View Doctors
4. Delete Doctor
5. Exit

**=>UPDATE DOCTOR**

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

Enter your choice: 2

Enter the email of the doctor to update: sidhant00@gmail.com

Enter 1 for update name

Enter 2 for update phone

Enter 3 for update specialization

Enter 4 for update experience

Enter 5 for update address

Enter your choice: 4

Enter new experience: 14

Doctor updated successfully.

::



Doctor Management Menu:

!!

1. Add Doctor
2. Update Doctor
3. View Doctors
4. Delete Doctor
5. Exit



**VIEW DOCTOR**

!!

Enter your choice: 3

List of Doctors:

ID: 1

Name: Dr. Jane Smith

Email: jane.smith@example.com

Phone: Neurology

Specialization: 9876543210

Experience: 8

Address: 456 Elm St, City, Country

etc.....

---

Doctor Management Menu:

!!

1. Add Doctor
2. Update Doctor
3. View Doctors
4. Delete Doctor
5. Exit



**DELETE DOCTOR**

!!

Enter your choice: 4

Enter the email of the doctor to delete: sidhant00@gmail.com

Are you sure you want to delete the doctor ? (yes/no): yes

Doctor deleted successfully.

::

---

Doctor Management Menu:

!!

1. Add Doctor
2. Update Doctor
3. View Doctors
4. Delete Doctor
5. Exit



**EXIT**

!!

Enter your choice: 5

Exiting the program...



## ii) For Patients

```
Chose 1 for doctor
Chose 2 for patients
Chose 3 for book appointment1
Enter your choice :2
```

Patient Management Menu:

1. Add Patient
2. Update Patient
3. View Patients
4. Delete Patient
5. Exit



### ADD PATIENT

```
Enter your choice: 1
Enter patient's name: Rameswar
Enter patient's date of birth (YYYY-MM-DD): 2007-12-18
Enter patient's age: 17
Enter patient's phone number: 1231231230
Enter patient's gender: Male
Enter patient's address: KV
Patient added successfully.
```

Patient Management Menu:

1. Add Patient
2. Update Patient
3. View Patients
4. Delete Patient
5. Exit



### UPDATE PATIENT

```
Enter your choice: 2
Enter patient name: Rameswar
Enter patient phone number: 1231231230
```

Select the field to update:

1. Name
2. Date of Birth (DOB)
3. Age
4. Phone Number
5. Gender
6. Address

```
Enter your choice: 4
Enter new phone number: 9999900000
Phone number updated successfully.
```

```
.....
```

Patient Management Menu:

1. Add Patient
2. Update Patient
3. View Patients
4. Delete Patient
5. Exit

Enter your choice: 3



## VIEW PATIENTS

List of Patients:

=====

ID: 1  
Name: Aarav Sharma  
Date of Birth: 1993-05-15  
Age: 30  
Phone: 9876543210  
Gender: Male  
Address: 123 MG Road, vivek vihar , odisha

=====

ID: 33  
Name: Rohan Gupta  
Date of Birth: 1990-02-02  
Age: 33  
Phone: 7654321098  
Gender: Male  
Address: 258 Jayanagar, Thiruvananthapuram

=====

ID: 34  
Name: ram  
Date of Birth: 2007-12-18  
Age: 17  
Phone: 1234567890  
Gender: Male  
Address: Bam

=====

ID: 35  
Name: ram  
Date of Birth: 2007-12-18  
Age: 17  
Phone: 1234567890  
Gender: Male  
Address: bam

=====

ID: 36  
Name: Sankit  
Date of Birth: 2007-01-01  
Age: 17  
Phone: 1234567890  
Gender: Male  
Address: Brahmapur

=====

ID: 37  
Name: Rameswar  
Date of Birth: 2007-12-18  
Age: 17  
Phone: 9999900000  
Gender: Male  
Address: KV

=====

Etc.....

Patient Management Menu:

1. Add Patient
2. Update Patient
3. View Patients
4. Delete Patient
5. Exit



**DELETE PATIENT**

Enter your choice: 4

Enter patient name: Rameswar

Enter patient phone number: 9999900000

Are you sure you want to delete this patient? (yes/no): yes

Patient deleted successfully.

Patient Management Menu:

1. Add Patient
2. Update Patient
3. View Patients
4. Delete Patient
5. Exit



**EXIT**

Enter your choice: 5

#####

Exiting the program...

#####

## iii) FOR APPOINTMENTS

```
Login successful
Chose 1 for doctor
Chose 2 for patients
Chose 3 for book appointment
Enter your choice :3
Enter 0 for Go back
Enter 1 for view appointment details
Enter 2 for book appointment
Enter 3 for cancel appointment
Enter your choice: 1
Appointment ID: 4
Patient ID: 36
Doctor ID: 2
Appointment Date: 2025-01-10
Reason: pediatrics
Status: Scheduled
Appointment details fetched successfully.
```

⇒ View appointment

etc..

---

```
Login successful
Chose 1 for doctor
Chose 2 for patients
Chose 3 for book appointment
Enter your choice :3
Enter 0 for Go back
Enter 1 for view appointment details
Enter 2 for book appointment
Enter 3 for cancel appointment
Enter your choice: 2
Enter your patient name: Sankit
Enter your phone number: 1234567890
```



**Book Appointment**

```
List of Doctors:
ID: 1, Name: Dr. Jane Smith, Specialization: Neurology
ID: 2, Name: Dr. Alice Brown, Specialization: Pediatrics
Enter the ID of the doctor you want to book an appointment with: 2
Enter the appointment date (YYYY-MM-DD): 2025-01-10
Enter the reason for the appointment: pediatrics
Appointment booked successfully.
```

```
Login successful
Chose 1 for doctor
Chose 2 for patients
Chose 3 for book appointmentl
Enter your choice :3
Enter 0 for Go back      ⇒ Cancel Appointment
Enter 1 for view appointment details
Enter 2 for book appointment
Enter 3 for cancel appointment
Enter your choice: 3
Enter the ID of the appointment to cancel: 4
Are you sure you want to cancel the appointment ? (yes/no): yes
*****
Appointment cancelled successfully.
*****
```

---

# REFERENCES

In order to work on this project titled–(HOSPITAL MANAGEMENT SYSTEM), the following books and websites are referred by me during the various phases of development of the project.

1) Class 11 th & 12 th Computer Science Books  
(SUMITA ARORA)

2) [www.youtube.com](http://www.youtube.com)

3) [www.python.com](http://www.python.com)

Other than the above-mentioned books, the suggestions and supervision of my teacher and my class experience and my friends also helped me to develop this software project.

PROJECT (CODE)  
EXECUTES  
SUCCESSFULLY.....

THANK YOU

