



HOSPITAL
APPOINTMENT
MANAGER



Hospital Appointment Manager



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Introduction of Project

**Hospital Appointment
Manager in python
Programming**

Overview of the Project:

- Brief introduction to the hospital appointment manager.
- Purpose: To manage patient records, doctor details, appointment, and hospital administration tasks.





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Key features

Patient Management:

Adding, viewing, update and searching patient details.

Doctor Management:

Adding, viewing, update and searching doctor details.

Appointment Management:

Adding Appointment and searching appointment details.

Search and Display:

Search for a patient by ID and display their records.

Cancel/Modify management record:

Enable entry record cancellations or modifications as needed.



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System Design

Data Structures Used:

- **Structures:** A Patient structure to store details like name, ID, disease, doctor address and gender etc.
- Functions and Conditional Expression for storing multiple patient records.

Functions:

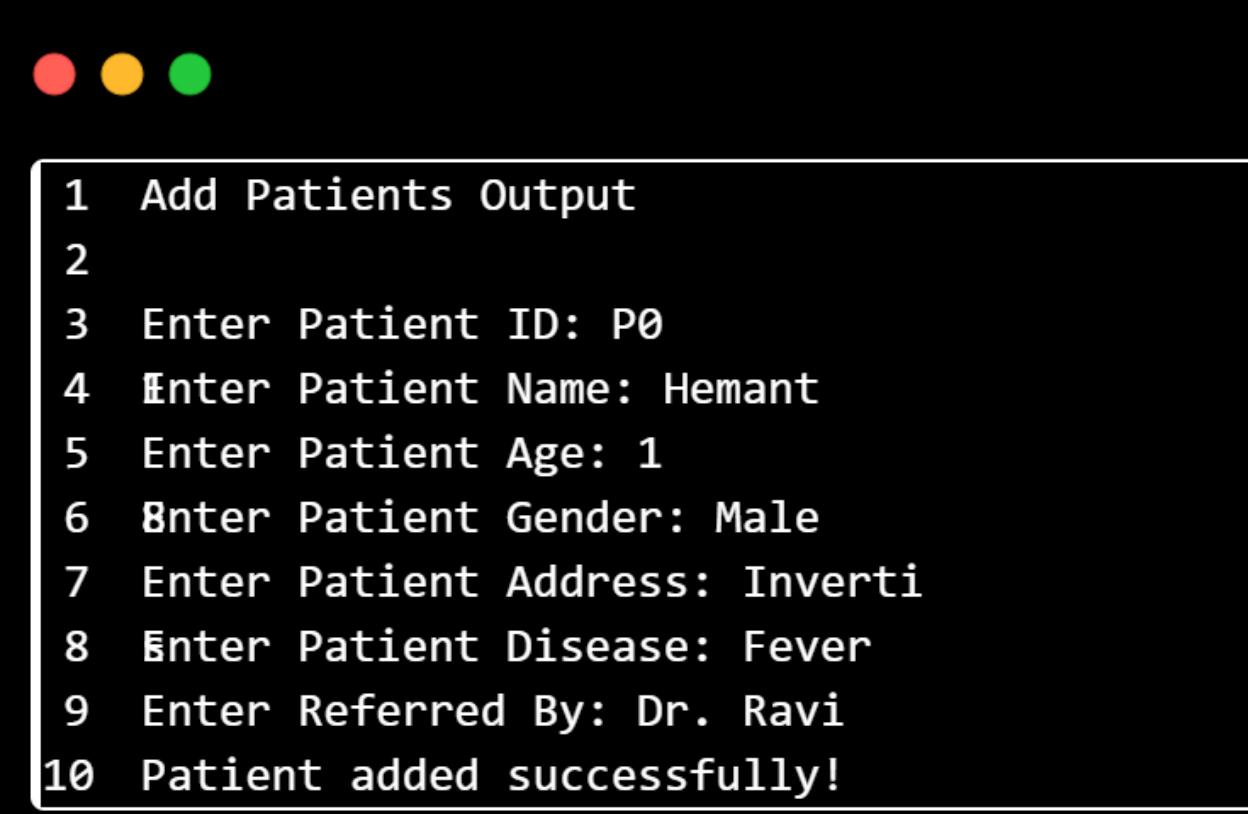
- **addPatient()**: Function to add a new patient's details.
- **addDoctor()** : Function to add a new doctor's details.
- **addAppointment()**: Function to add a appointment's details.

Menu System:

- A simple text-based menu for the user to interact with the system.
- Options to add, display, search, or exit the system.



Patient Output



```
● ● ●
1 Add Patients Output
2
3 Enter Patient ID: P0
4 Enter Patient Name: Hemant
5 Enter Patient Age: 1
6 Enter Patient Gender: Male
7 Enter Patient Address: Invertis
8 Enter Patient Disease: Fever
9 Enter Referred By: Dr. Ravi
10 Patient added successfully!
```

```
def add_patient():
    pid = input("Enter Patient ID: ").strip()
    name = input("Enter Patient Name: ").strip()
    try:
        age = int(input("Enter Patient Age: ").strip())
    except ValueError:
        print("Invalid age, setting age to 0")
        age = 0
    gender = input("Enter Patient Gender: ").strip()
    address = input("Enter Patient Address: ").strip()
    disease = input("Enter Patient Disease: ").strip()
    referred_by = input("Enter Referred By: ").strip()
    admission = get_current_datetime()
    patients.append({
        "id": pid,
        "name": name,
        "age": age,
        "gender": gender,
        "address": address,
        "disease": disease,
        "REFERRED_BY": referred_by,
        "admissionDateTime": admission,
    })
    print("Patient added successfully!\n")
```



ViewPatients output

```
def view_patients():
    if not patients:
        print("No patients found.")
        return
    for p in patients:
        print(f"ID: {p['id']} | Name: {p['name']} | Age: {p['age']} | Gender: {p['gender']} | Address: {p['address']} | Disease: {p['disease']}
| REFERRED_BY: {p['REFERRED_BY']} | Admission DateTime: {p['admissionDateTime']}")
```

The screenshot shows a terminal window with three colored window control buttons (red, yellow, green) at the top. The window title is "Add Patients Output". Inside the window, there are three numbered lines of text:

- 1 ID: P01 | Name: Hemant | Age: 18 | Gender: Male | Address: Invertis | Disease: Fever | REFERRED_BY: Dr. Ravi | Admission DateTime: 10-11-2025 21:43:21
- 2
- 3

Doctor Output

```
● ● ●  
1 Doctor Output  
2  
3 Enter Doctor ID: D01  
4 Enter Doctor Name: Dr. Ravi  
5 Enter Doctor Specialization: General Physician  
6 Enter Doctor Experience (years): 3  
7 Doctor added successfully!
```

```
def add_doctor():  
    did = input("Enter Doctor ID: ").strip()  
    name = input("Enter Doctor Name: ").strip()  
    specialization = input("Enter Doctor Specialization: ").strip()  
    try:  
        experience = int(input("Enter Doctor Experience (years): ").strip())  
    except ValueError:  
        print("Invalid experience, setting to 0")  
        experience = 0  
    doctors.append({  
        "id": did,  
        "name": name,  
        "specialization": specialization,  
        "experience": experience,  
    })  
    print("Doctor added successfully!\n")
```



ViewDoctor output

```
def view_doctors():
    if not doctors:
        print("No doctors found.")
    return
for d in doctors:
    print(f"ID: {d['id']} | Name: {d['name']} | Specialization: {d['specialization']} | Experience: {d['experience']} years")
```

The screenshot shows a terminal window with a black background and white text. At the top, there are three colored circles: red, yellow, and green. Below them, the text "1 View Doctor Output" is displayed. Further down, the number "2" is shown. At the bottom, the output of the script is displayed: "3 ID: D01 | Name: Dr. Ravi | Specialization: General Physician | Experience: 3 years".

Appointment Output



```
1 View Appointment Output
2
3 Enter Appointment ID: A01
4 Enter Patient Name: Hemant
5 Enter Doctor Name: Dr.Ravi
6 Appointment added successfully!
```

```
def add_appointment():
    aid = input("Enter Appointment ID: ").strip()
    patient_name = input("Enter Patient Name: ").strip()
    doctor_name = input("Enter Doctor Name: ").strip()
    appointment_time = get_current_datetime()
    appointments.append({
        "id": aid,
        "patientName": patient_name,
        "doctorName": doctor_name,
        "appointmentDateTime": appointment_time,
    })
    print("Appointment added successfully!\n")
```



ViewAppointment output

```
def view_appointments():
    if not appointments:
        print("No appointments found.")
        return
    for a in appointments:
        print(f"ID: {a['id']} | Patient Name: {a['patientName']} | Doctor Name: {a['doctorName']} | Appointment DateTime: {a['appointmentDateTime']}")
```



A terminal window showing the output of the `view_appointments()` function. The window has a dark background with three colored dots (red, yellow, green) at the top left. The text is white.

```
1 View Appointment Output
2
3 ID: A01 | Patient Name: Hemant | Doctor Name: Dr.Ravi | Appointment DateTime: 10-11-2025 22:05:38
```



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Thank You