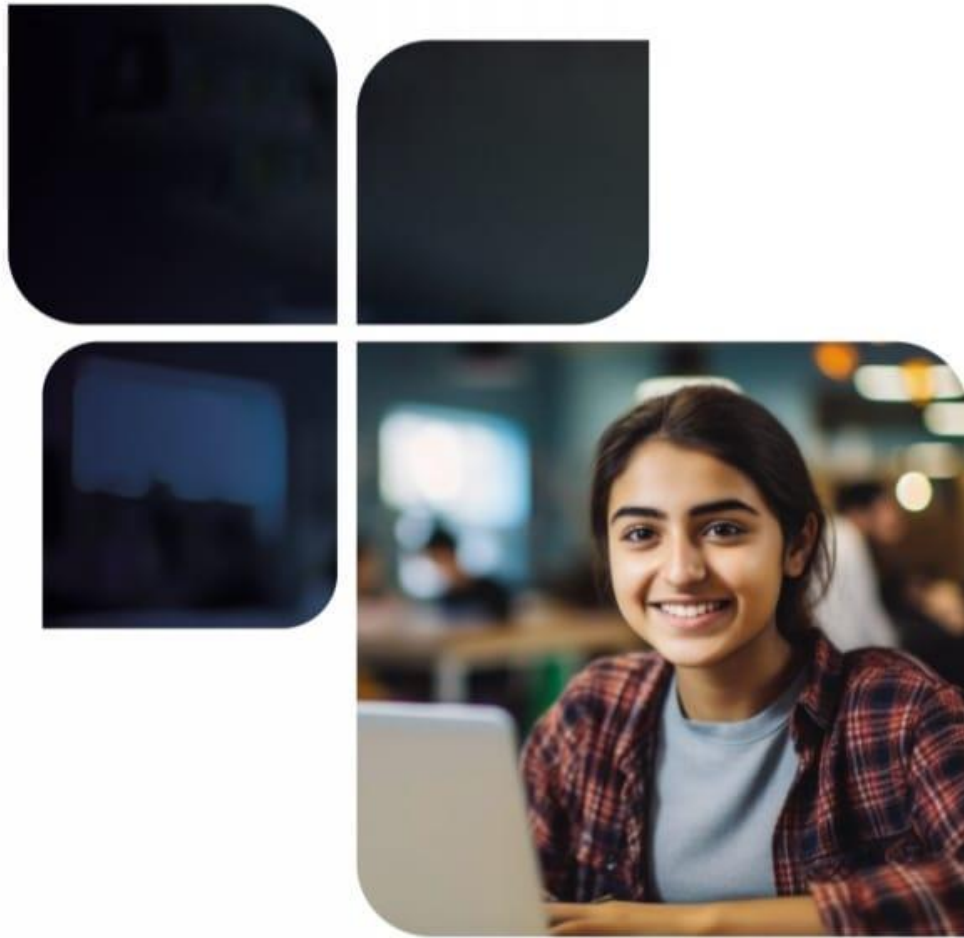


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PROJECT REPORT

***TITLE* : MEDICAL CLINIC APPOINTMENT SYSTEM**

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Submitted to :	Global Quest Technologies
Date :	15 February 2026

ABSTRACT

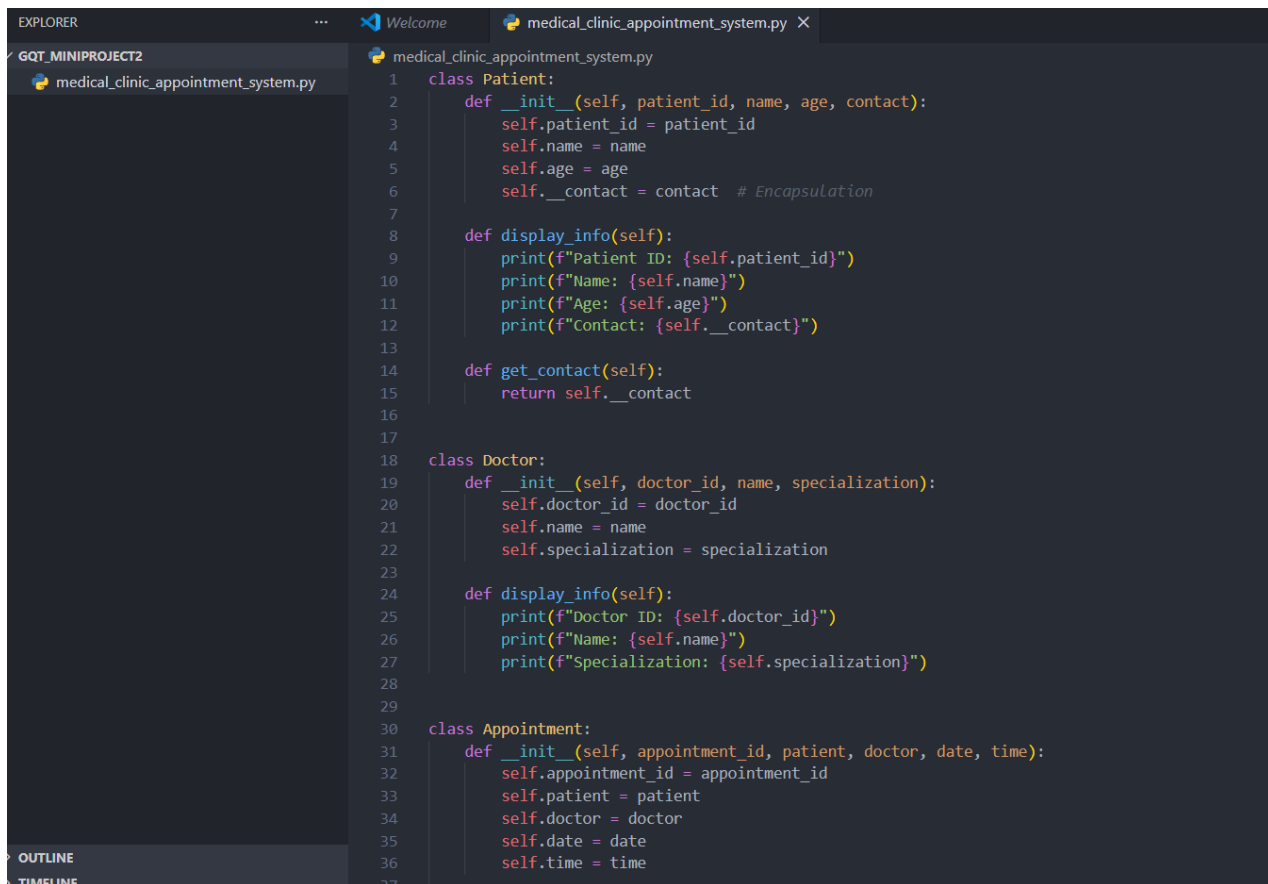
The Hotel Reservation System is a console-based Python application designed to automate and simplify hotel management tasks such as room management, guest management, and reservation scheduling. The system is built using Object-Oriented Programming (OOP) concepts, including classes, objects, inheritance, encapsulation, polymorphism, and composition, to ensure modularity, scalability, and maintainability.

The system allows hotel staff to add and manage rooms with details like room type, price, and availability, register guests with personal information securely stored, and schedule reservations while preventing double-booking.

Guests' and rooms' information can be easily accessed and displayed using well-structured menus.

This system provides an efficient, interactive, and user-friendly console interface to manage multiple guests and rooms simultaneously, demonstrating real-world applications of OOP principles in software development. It serves as a foundation for more advanced hotel management systems with features like billing, online booking, and reports.

Source Code:-



```
1 class Patient:
2     def __init__(self, patient_id, name, age, contact):
3         self.patient_id = patient_id
4         self.name = name
5         self.age = age
6         self.__contact = contact # Encapsulation
7
8     def display_info(self):
9         print(f"Patient ID: {self.patient_id}")
10        print(f"Name: {self.name}")
11        print(f"Age: {self.age}")
12        print(f"Contact: {self.__contact}")
13
14    def get_contact(self):
15        return self.__contact
16
17
18 class Doctor:
19     def __init__(self, doctor_id, name, specialization):
20         self.doctor_id = doctor_id
21         self.name = name
22         self.specialization = specialization
23
24     def display_info(self):
25         print(f"Doctor ID: {self.doctor_id}")
26         print(f"Name: {self.name}")
27         print(f"Specialization: {self.specialization}")
28
29
30 class Appointment:
31     def __init__(self, appointment_id, patient, doctor, date, time):
32         self.appointment_id = appointment_id
33         self.patient = patient
34         self.doctor = doctor
35         self.date = date
36         self.time = time
37
```

```
EXPLORER
Welcome
medical_clinic_appointment_system.py X
GQT_MINIPROJECT2
medical_clinic_appointment_system.py
30 class Appointment:
31
32     def display_appointment(self):
33         print(f"\nAppointment ID: {self.appointment_id}")
34         print(f>Date: {self.date} | Time: {self.time}")
35         print(f"Patient: {self.patient.name} (ID: {self.patient.patient_id})")
36         print(f"Doctor: {self.doctor.name} ({self.doctor.specialization})")
37
38
39 class ClinicSystem:
40     def __init__(self):
41         self.patients = {} # patient_id -> Patient
42         self.doctors = {} # doctor_id -> Doctor
43         self.appointments = {} # appointment_id -> Appointment
44
45     # Add patient
46     def add_patient(self):
47         pid = input("Enter patient ID: ")
48         if pid in self.patients:
49             print("Patient already exists!")
50             return
51         name = input("Enter patient name: ")
52         age = int(input("Enter age: "))
53         contact = input("Enter contact number: ")
54         patient = Patient(pid, name, age, contact)
55         self.patients[pid] = patient
56         print(f"Patient {name} added successfully!")
57
58     # Add doctor
59     def add_doctor(self):
60         did = input("Enter doctor ID: ")
61         if did in self.doctors:
62             print("Doctor already exists!")
63             return
64         name = input("Enter doctor name: ")
65         specialization = input("Enter specialization: ")
66         doctor = Doctor(did, name, specialization)
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EXPLORER
...
Welcome
medical_clinic_appointment_system.py X

GQT_MINIPROJECT2
medical_clinic_appointment_system.py

45 class ClinicSystem:
101 def display_patients(self):
102     for p in self.patients.values():
105         p.display_info()
106     print("-----")
107
108     # Display all doctors
109     def displayDoctors(self):
110         if not self.doctors:
111             print("No doctors found!")
112         for d in self.doctors.values():
113             d.display_info()
114             print("-----")
115
116     # Display all appointments
117     def display_appointments(self):
118         if not self.appointments:
119             print("No appointments scheduled!")
120         for a in self.appointments.values():
121             a.display_appointment()
122             print("-----")
123
124     # Main menu
125     def menu(self):
126         while True:
127             print("\n== Clinic Appointment System ==")
128             print("1. Add Patient")
129             print("2. Add Doctor")
130             print("3. Schedule Appointment")
131             print("4. View Patients")
132             print("5. View Doctors")
133             print("6. View Appointments")
134             print("7. Exit")
135             choice = input("Enter your choice: ")
136
137             if choice == '1':
138                 self.add_patient()
```

```
EXPLORER
...
Welcome
medical_clinic_appointment_system.py X

GQT_MINIPROJECT2
medical_clinic_appointment_system.py

45 class ClinicSystem:
125     def menu(self):
136
137         if choice == '1':
138             self.add_patient()
139         elif choice == '2':
140             self.add_doctor()
141         elif choice == '3':
142             self.schedule_appointment()
143         elif choice == '4':
144             self.display_patients()
145         elif choice == '5':
146             self.displayDoctors()
147         elif choice == '6':
148             self.display_appointments()
149         elif choice == '7':
150             print("Exiting system. Goodbye!")
151             break
152         else:
153             print("Invalid choice! Try again.")
154
155
156     # Run the Clinic System
157     if __name__ == "__main__":
158         clinic = ClinicSystem()
159         clinic.menu()
```

Output:-

```
GQT_MINIPROJECT2
medical_clinic_appointment_system.py

Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for
compatibility purposes. If you want to re-enable it, run 'Import-Module PSReadLine'.

PS C:\Users\reeth\OneDrive\Desktop\GQT_MiniProject2> & 'c:\Users\reeth\AppData\Local\Programs\Python
\Python313\python.exe' 'c:\Users\reeth\vscode\extensions\ms-python.debugpy-2025.18.0-win32-x64\bundl
ed\libs\debugpy\launcher' '53392' '--' 'c:\Users\reeth\OneDrive\Desktop\GQT_MiniProject2\medical_clin
ic_appointment_system.py'

=== Clinic Appointment System ===
1. Add Patient
2. Add Doctor
3. Schedule Appointment
4. View Patients
5. View Doctors
6. View Appointments
7. Exit
Enter your choice: 1
Enter patient ID: 101
Enter patient name: Geethika
Enter age: 21
Enter contact number: 9191919191
Patient Geethika added successfully!

=== Clinic Appointment System ===
1. Add Patient
2. Add Doctor
3. Schedule Appointment
4. View Patients
5. View Doctors
6. View Appointments
7. Exit
Enter your choice: 1
Enter patient ID: 102
Enter patient name: Geeth
Enter age: 22
Enter contact number: 9292929292
Patient Geeth added successfully!

=== Clinic Appointment System ===
1. Add Patient
2. Add Doctor
```

```
EXPLORER
GQT_MINIPROJECT2
medical_clinic_appointment_system.py

PROBLEMS OUTPUT DEBUG CONSOLE Launch

=== Clinic Appointment System ===
1. Add Patient
2. Add Doctor
3. Schedule Appointment
4. View Patients
5. View Doctors
6. View Appointments
7. Exit
Enter your choice: 2
Enter doctor ID: 201
Enter doctor name: Kiefer
Enter specialization: cardio
Doctor Kiefer added successfully!

=== Clinic Appointment System ===
1. Add Patient
2. Add Doctor
3. Schedule Appointment
4. View Patients
5. View Doctors
6. View Appointments
7. Exit
Enter your choice: 2
Enter doctor ID: 202
Enter doctor name: Aries
Enter specialization: Pulmonary
Doctor Aries added successfully!

=== Clinic Appointment System ===
1. Add Patient
2. Add Doctor
3. Schedule Appointment
4. View Patients
5. View Doctors
6. View Appointments
7. Exit
Enter your choice: 3
Enter appointment ID: 301
Enter patient ID: 101
Enter doctor ID: 201
```

GQT_MINIPROJECT2

medical_clinic_appointment_system.py

Enter your choice: 3

Enter appointment ID: 301

Enter patient ID: 101

Enter doctor ID: 201

Enter appointment date (YYYY-MM-DD): 2026-02-15

Enter appointment time (HH:MM): 05:20

Appointment scheduled for Geethika with Dr. Kiefer.

=== Clinic Appointment System ===

1. Add Patient

2. Add Doctor

3. Schedule Appointment

4. View Patients

5. View Doctors

6. View Appointments

7. Exit

Enter your choice: 3

Enter appointment ID: 302

Enter patient ID: 102

Enter doctor ID: 202

Enter appointment date (YYYY-MM-DD): 2026-02-22

Enter appointment time (HH:MM): 01:73

Appointment scheduled for Geeth with Dr. Aries.

=== Clinic Appointment System ===

1. Add Patient

2. Add Doctor

3. Schedule Appointment

4. View Patients

5. View Doctors

6. View Appointments

7. Exit

Enter your choice: 4

Patient ID: 101

Name: Geethika

Age: 21

Contact: 9191919191

Patient ID: 102

Name: Geeth

Age: 22

OUTLINE

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EXPLORER

GQT_MINIPROJECT2

medical_clinic_appointment_system.py

PROBLEMS

OUTPUT

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Patient ID: 102

Name: Geeth

Age: 22

Contact: 9292929292

=== Clinic Appointment System ===

1. Add Patient

2. Add Doctor

3. Schedule Appointment

4. View Patients

5. View Doctors

6. View Appointments

7. Exit

Enter your choice: 5

Doctor ID: 201

Name: Kiefer

Specialization: cardio

Doctor ID: 202

Name: Aries

Specialization: Pulmonary

=== Clinic Appointment System ===

1. Add Patient

2. Add Doctor

3. Schedule Appointment

4. View Patients

5. View Doctors

6. View Appointments

7. Exit

Enter your choice: 6

Appointment ID: 301

Date: 2026-02-15 | Time: 05:20

Patient: Geethika (ID: 101)

Doctor: Kiefer (cardio)

OUTLINE

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EXPLORER

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GQT_MINIPROJECT2

medical_clinic_appointment_system.py

PROBLEMS

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medical_clinic_appointment_system.py

Name: Kiefer
Specialization: cardio

Doctor ID: 202
Name: Aries
Specialization: Pulmonary

=== Clinic Appointment System ===
1. Add Patient
2. Add Doctor
3. Schedule Appointment
4. View Patients
5. View Doctors
6. View Appointments
7. Exit
Enter your choice: 6

Appointment ID: 301
Date: 2026-02-15 | Time: 05.20
Patient: Geethika (ID: 101)
Doctor: Kiefer (cardio)

Appointment ID: 302
Date: 2026-02-22 | Time: 01.73
Patient: Geeth (ID: 102)
Doctor: Aries (Pulmonary)

=== Clinic Appointment System ===
1. Add Patient
2. Add Doctor
3. Schedule Appointment
4. View Patients
5. View Doctors
6. View Appointments
7. Exit
Enter your choice: 7
Exiting system. Goodbye!
PS C:\Users\reeth\OneDrive\Desktop\GQT_MiniProject2>

OUTLINE

TIMELINE



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