

PROJECT 4: DOCMAN – Clinic Appointment Tracker

Description

A small clinic management app that tracks patients, doctors, and appointments. Useful for solo doctors or small health centers.

▮ Scenario

Doctors can manage appointments easily and retrieve patient history.

Menu

```
===== DOCMAN - Clinic Appointment Tracker
=====
```

1. Add Doctor
2. Register Patient
3. Book Appointment
4. Cancel Appointment
5. View Doctor's Schedule
6. View Patient History
7. Generate Daily Appointment List
8. Check Doctor Availability
9. View All Appointments
10. Exit

Enter your choice:

Functions Needed

```
def add_doctor(doctor_id, name, specialty) def register_patient(patient_id, name, age,
contact) def book_appointment(patient_id, doctor_id, date, time) def
cancel_appointment(appointment_id) def view_schedule(doctor_id, date) def
get_patient_history(patient_id) def generate_daily_report(date) def
check_availability(doctor_id, date, time) def view_all_appointments()
```

Sample Output

```
=== TODAY'S APPOINTMENTS === Doctor: Dr. Sharma (Cardiology) Date: 2025-10-16
```

1. 10:00 AM - Rahul Verma
2. 10:30 AM - Sneha Patil
3. 11:00 AM - Amit R. Total Appointments: 3

Edge Cases

Double booking of same time slot Doctor on leave or unavailable Cancel non-existing appointment Missing patient/doctor record