

# Hospital, Doctors, and Patients (Association and Communication)

## Class: Doctor

### - Attributes:

- Name : string
- DoctorID : string
- Patients : List<Patient>

### - Methods:

- Consult(patient : Patient)
- DisplayPatients()

## Class: Patient

### - Attributes:

- Name : string
- PatientID : string
- Doctors : List<Doctor>

### - Methods:

- RequestConsultation(doctor : Doctor)
- DisplayDoctors()

## Class: Hospital

### - Attributes:

- Name : string
- Doctors : List<Doctor>
- Patients : List<Patient>

### - Methods:

- AddDoctor(doctor : Doctor)
- AddPatient(patient : Patient)

## Relationships:

- Association: Doctor ↔ Patient (many-to-many with communication)