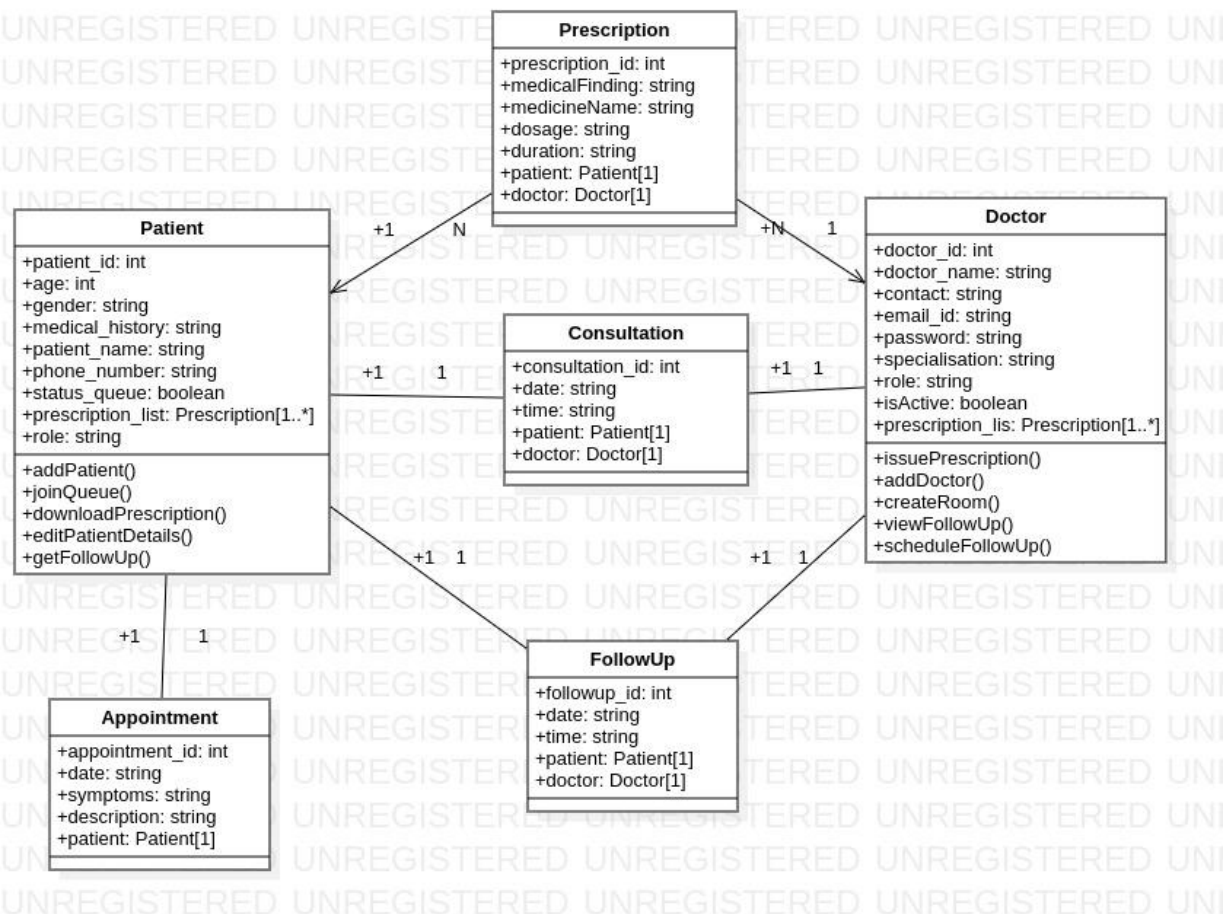


# Telecommunication Application

By Team 23, Project- 2 :-

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## Database Design



### Patient:

- Primary\_Key: patient\_id, type: int
- The patient table will store patient information

**Doctor:**

- Primary\_Key: doctor\_id, type: int
- The doctor table will store doctor information

**Prescription:**

- Primary\_Key: prescription\_id, type: int
- Foreign\_Key: doctor\_id, type: int
- Foreign\_Key: patient\_id, type: int
- The prescription table will store information about prescriptions issued by doctors for patients

**Appointment:**

- Primary\_Key: appointment\_id, type: int
- Foreign\_Key: patient\_id, type: int
- The appointment table will store information about appointments made by patients.

**Consultation:**

- Primary\_Key: consultation\_id, type: int
- Foreign\_Key: patient\_id, type: int
- Foreign\_Key: doctor\_id, type: int
- The consultation table will store information about consultations between doctors and patients.

**FollowUp:**

- Primary\_Key: followup\_id, type: int
- Foreign\_Key: patient\_id, type: int
- Foreign\_Key: doctor\_id, type: int
- The followup table will store information about follow-up appointments scheduled by doctors for patients.

**Services:****Patient Service:**

- Login
- Add, Delete, Update Patients
- List Patients by some constraints(id, phone-number, etc)
- Upload clinical records and health records

**Doctor Service:**

- Login
- Add, Delete, Update Doctor
- List Doctor by some constraints(id, speciality, etc)

- Issue Prescription

### **Appointment Service:**

- Create / Add new Appointment to join the queue
- Delete / Update the Appointment

### **Consultation Service:**

- Doctor can create Room
- Queue's front patient can join room directly

### **Follow Up Service:**

- Patient can get follow up
- Doctor can schedule follow up
- Doctor can cancel follow up
- View Follow Up for a Doctor

### **Prescription Service:**

- Add Prescription
- Get prescription by doctor and patient id
- Get prescription by date and time
- Get list of all prescriptions

### **File Service:**

- Generate Pdf file of prescription
- Download Prescription by Doctor

### **Queue Service:**

- Add the patient to the queue
- Get the front patient

## **APIs:**

### **Patient Service:**

- POST /patient/login
  - patient phone number
- POST /patient/add
  - patient details (name, phone number, etc.)
- DELETE /patient/{patient\_id}
  - Output: delete confirmation message
- PUT /patient/{patient\_id}
  - Input: updated patient details

- Output: updated patient details
- GET /patient/list
  - Output: list of all patients
- GET /patient/{patient\_id}
  - Output: patient details
- POST /patient/records
  - Input: patient\_id
  - Output: record\_id

### **Doctor Service:**

- POST /doctor/login
  - Input: doctor email and password
- POST /doctor/add
  - Input: doctor details (name, email, speciality, etc.)
  - Output: doctor\_id
- DELETE /doctor/{doctor\_id}
  - Output: delete confirmation message
- PUT /doctor/{doctor\_id}
  - Input: updated doctor details
  - Output: updated doctor details
- GET /doctor/list
  - Output: list of all doctors
- GET /doctor/{doctor\_id}
  - Output: doctor details
- POST /prescription
  - Input: patient\_id, doctor\_id, prescription details

### **Appointment Service:**

- POST /appointment/add
  - Input: patient\_id, doctor\_id, appointment\_date, symptoms, description
  - Output: appointment\_id
- DELETE /appointment/{appointment\_id}
  - Output: delete confirmation message
- PUT /appointment/{appointment\_id}
  - Input: updated appointment details
  - Output: updated appointment details

### **Consultation Service:**

- POST /consultation/room
  - Input: doctor\_id

- Output: room\_id

### **Follow Up Service:**

- GET /followup/patient/{patient\_id}
  - Output: list of patient's follow ups
- POST /followup
  - Input: patient\_id, doctor\_id, follow up details
  - Output: followup\_id
- DELETE /followup/{followup\_id}
  - Output: delete confirmation message
- GET /followup/doctor/{doctor\_id}
  - Output: list of doctor's follow ups

### **Prescription Service:**

- POST /prescription
  - Input: patient\_id, doctor\_id, prescription details
  - Output: prescription\_id
- GET /prescription/doctor/{doctor\_id}/patient/{patient\_id}
  - Output: list of prescriptions
- GET /prescription/date-time/{date\_time}
  - Output: prescription details
- GET /prescription/list
  - Output: list of all prescriptions

### **File Service:**

- GET /prescription/{prescription\_id}
  - Output: PDF file of prescription

### **Queue Service:**

- POST /queue
  - Input: patient\_id
- GET /queue
  - Output: patient\_id

### **Wireframes -**

<https://whimsical.com/health-care-ux-GNkHLjyVC8b9AdSxfN6HQD>

### **GitHub Link -**

- Frontend : <https://github.com/Skchauhan07/HAD-app>
- Backend : <https://github.com/akashanand842/tele-backend>

