XTREMAX CLINIC
Object Map

Doctor
-id: Integer
-name : String
#GetterAndSetter()

Patient
-id: Integer
-name : String
#GetterAndSetter()

Treatment
-id: Integer
-doctor: Doctor
-patient: Patient
-registrationDate: Date
-registrationTime: Date
-called: Boolean
-medicalPrescription: MedicalPrescription
#GetterAndSetter()

Medicine
-id: Integer
-name: String
-processDuration: Integer
#GetterAndSetter()

MedicalPrescription
-id: Integer
-treatment: Treatment
-registeredAt: Date
-doneAt: Date
-medicine: List<Medicine>
#GetterAndSetter()
#setDoneAt()

Doctor 1 — 1 Treatment
Patient 1 — 1 Treatment
Treatment 1 — 0..1 MedicalPrescription
Medicine n — 1 MedicalPrescription
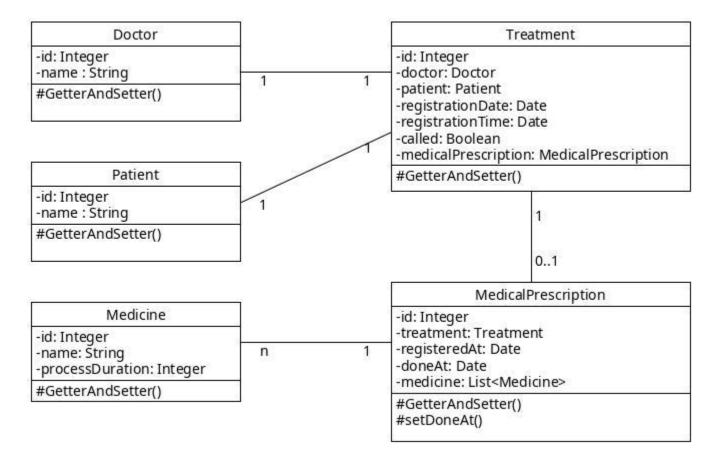
Boundary

1. Patient
   a. Register for doctor's treatment
   b. Registering as a new patient, if not registered yet in the system
2. Doctor
   a. Make medical prescription for patient
3. System
   a. Define which patient should be called from the patients queue
   b. Limit maximum of patient's queue to 15 for each doctor
   c. Define what time a medical prescription should be done based on the duration of each medicine.

API Design

API Name	Http Method	Path	Status Code	Description
Get Patient	GET	`/patient`	200 (OK)	Find All Registered Patient
Get Patient By Id	GET	`/patient/{id}`	200 (OK)	Find a patient by Id
Get Patient by name	GET	`/patient/name/{name}`	200 (OK)	Find a patient by name
Save Patient	POST	`/patient`	201 (Created)	Save new Patient
Get Doctor	GET	`/doctor`	200 (OK)	Find All Registered Doctor
Get Doctor By Id	GET	`/doctor/{id}`	200 (OK)	Find a Doctor by Id
Get Doctor by name	GET	`/doctor/name/{name}`	200 (OK)	Find a Doctor by name
Save Doctor	POST	`/doctor`	201 (Created)	Save new Doctor
Get Medicine	GET	`/medicine`	200 (OK)	Find All Registered Medicine
Get Medicine By Id	GET	`/medicine/{id}`	200 (OK)	Find a Medicine by Id
Get Medicine by name	GET	`/medicine/name/{name}`	200 (OK)	Find a Medicine by name
Save Medicine	POST	`/medicine`	201 (Created)	Save new Medicine
Register for treatment	POST	`/queue/doctor/push`	201 (Created)	Save new Patient Queue to get treatment
Call Patient	GET	`/queue/doctor/{doctorId}/call`	200 (OK)	Call patient by which doctor from queue
Patient Queue for Doctor	GET	`/queue/doctor/{doctorId}/list`	200 (OK)	Patient Queue for doctor by id
Save medical prescription	POST	`/queue/prescription/push`	201 (Created)	Save new medical prescription
Get medical prescription's list	GET	`/queue/prescription/`	200 (OK)	Find All medical prescription by id
Done Medical prescription	GET	`/queue/prescription/done`	200 (OK)	Find all finished process of medical prescription

Initialization Data

Class	Name	ProcessDuration(s)
Patient	patient1	-
Patient	patient2	-
Patient	patient3	-
Doctor	doctor1	-
Doctor	doctor2	-
Medicine	medicine1	60
Medicine	medicine2	120
Medicine	medicine3	180
Medicine	medicine4	240
Medicine	medicine5	300