ENTITIES's Class Diagram

Entities

E PatientState
- DISCHARGED
- RECOVERED
- WAITING

E RecoveryState
- ACTIVE
- DISCHARGED

E Role
- DOCTOR
- HEAD_PHYSICIAN
- NURSE

I Entry

C Administration
- ☐ date : Date
- ☐ dose : int
- ☐ hour : int
- ☐ id : int
- ☐ notes : String

- ● Administration()
- ● Administration()
- ● Administration()
- ● Administration()
- ● Administration()
- ● getDate()
- ● getDose()
- ● getHour()
- ● getId()
- ● getNotes()
- ● getPatient()
- ● getPrescription()
- ● setDate()
- ● setDose()
- ● setHour()
- ● setNotes()
- ● setPatient()
- ● setPrescription()
- ● toString()

C User
- ☐ id : int
- ☐ name : String
- ☐ password : String
- ☐ valid : boolean

- ● User()
- ● User()
- ● User()
- ● equals()
- ● getName()
- ● getPassword()
- ● getRole()
- ● isValid()
- ● setName()
- ● setPassword()
- ● setRole()
- ● setValid()
- ● toString()

C Monitoring
- ☐ date : Date
- ☐ diastolicPressure : int
- ☐ heartRate : int
- ☐ id : int
- ☐ systolicPressure : int
- ☐ temperature : double

- ● Monitoring()
- ● Monitoring()
- ● Monitoring()
- ● defaultMonitoring()
- ● getDate()
- ● getDiastolicPressure()
- ● getHeartRate()
- ● getId()
- ● getRecovery()
- ● getSystolicPressure()
- ● getTemperature()
- ● setDate()
- ● setDiastolicPressure()
- ● setHeartRate()
- ● setRecovery()
- ● setSystolicPressure()
- ● setTemperature()
- ● toString()

C Role

C Prescription
- ☐ administrations : List<Administration>
- ☐ dailyAdministrationCounter : HashMap<Tuple<String, String>, Integer>
- ☐ dailyDose : int
- ☐ date : Date
- ☐ doctor : String
- ☐ drug : String
- ☐ duration : int
- ☐ id : int
- ☐ totalNumberofDoses : int

- ● Prescription()
- ● Prescription()
- ● Prescription()
- ● Prescription()
- ● addAdministration()
- ● addToAdministrations()
- ● getAdministrationNumber()
- ● getAdministrations()
- ● getDailyAdministrationCounter()
- ● getDailyDose()
- ● getDate()
- ● getDoctor()
- ● getDrug()
- ● getDuration()
- ● getId()
- ● getRecovery()
- ● getTotalNumberofDoses()
- ● isAdministrable()
- ● setAdministrations()
- ● setDailyAdministrationCounter()
- ● setDailyDose()
- ● setDate()
- ● setDoctor()
- ● setDrug()
- ● setDuration()
- ● setRecovery()
- ● setTotalNumberofDoses()
- ● toString()
- ■ isBefore()

C Recovery
- ☐ diagnosis : String
- ☐ dischargeSummary : String
- ☐ endDate : Date
- ☐ id : int
- ☐ monitorings : List<Monitoring>
- ☐ prescriptions : List<Prescription>
- ☐ startDate : Date

- ● Recovery()
- ● Recovery()
- ● Recovery()
- ● Recovery()
- ● Recovery()
- ● Recovery()
- ● addToMonitorings()
- ● addToPrescriptions()
- ● discharge()
- ● discharge()
- ● evolveGenerator()
- ● generateMonitoring()
- ● getDiagnosis()
- ● getDischargeSummary()
- ● getEndDate()
- ● getId()
- ● getLastMonitoring()
- ● getMonitorings()
- ● getPatient()
- ● getPrescriptions()
- ● getStartDate()
- ● isActive()
- ● isDischarged()
- ● resetGenerator()
- ● setDiagnosis()
- ● setMonitorings()
- ● setPatient()
- ● setPrescriptions()
- ● setStartDate()
- ■ setDischargeSummary()
- ■ setEndDate()

C Patient
- ☐ administrations : List<Administration>
- ☐ birthDay : Date
- ☐ fiscalCode : String
- ☐ id : int
- ☐ name : String
- ☐ placeOfBirth : String
- ☐ recoveries : List<Recovery>
- ☐ surname : String

- ● Patient()
- ● Patient()
- ● addToAdministrations()
- ● admit()
- ● discharge()
- ● getActiveMonitorings()
- ● getActiveRecoveries()
- ● getAdministrations()
- ● getAllMonitorings()
- ● getAllRecoveries()
- ● getDateofBirth()
- ● getDischargedRecovery()
- ● getFiscalCode()
- ● getId()
- ● getName()
- ● getPlaceOfBirth()
- ● getSurname()
- ● isDischarged()
- ● isRecovered()
- ● isWaiting()
- ● setAdministrations()
- ● setDateofBirth()
- ● setFiscalCode()
- ● setName()
- ● setPlaceOfBirth()
- ● setRecoveries()
- ● setSurname()
- ● toString()
- ■ addToRecoveries()

C Recovery.PatientNotAdmittedException

C Recovery.RecoveryState

C Recovery.RecoveryNullFieldException

C Patient.MoreThanOneActiveRecoveryException

C PatientState

DataGenerator

C BPGenerator

C HeartRateGenerator

C TemperatureGenerator

Relationship labels: prescription, role, recovery, patient, recoveryState, bpGenerator, heartRateGenerator, temperatureGenerator, patientState