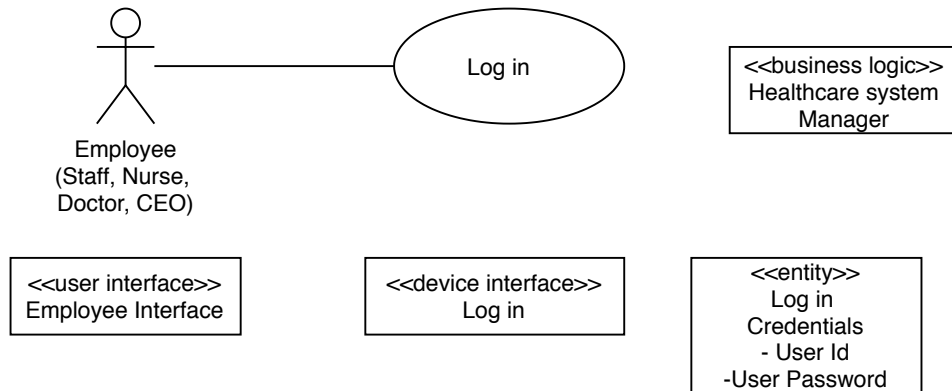
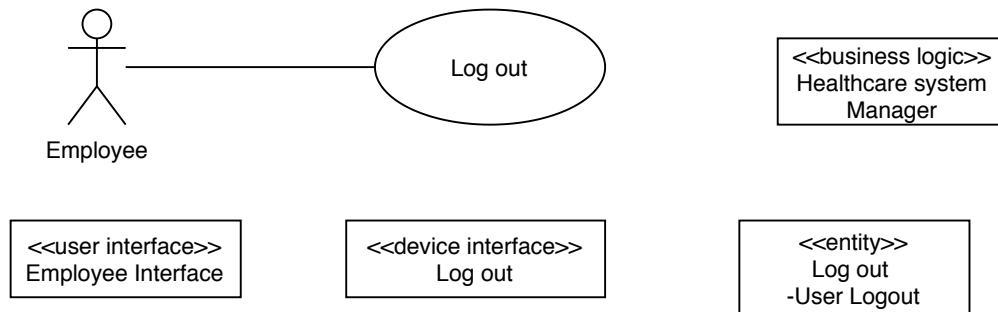


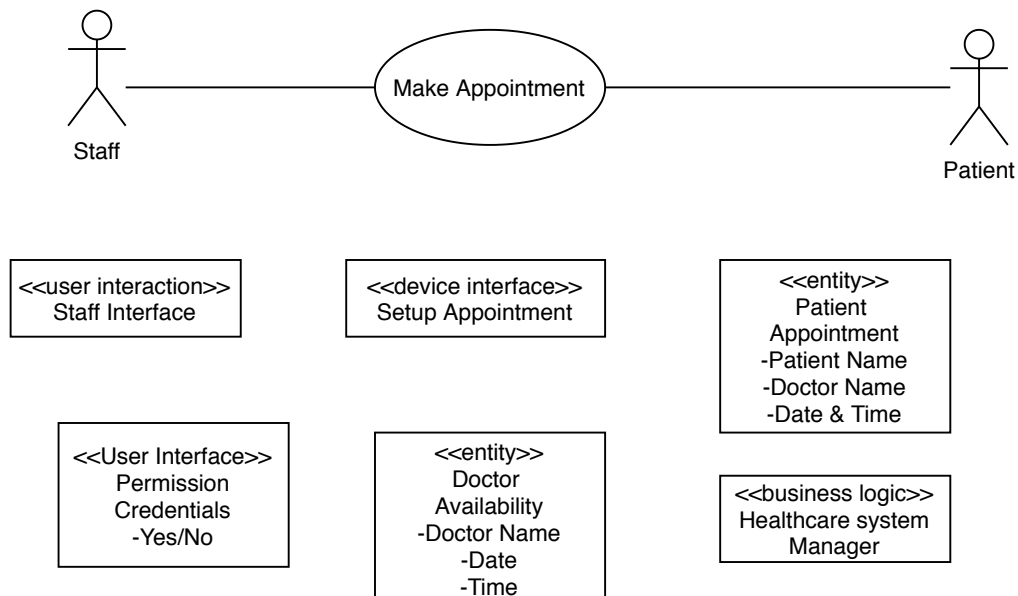
Classes for Log in use case



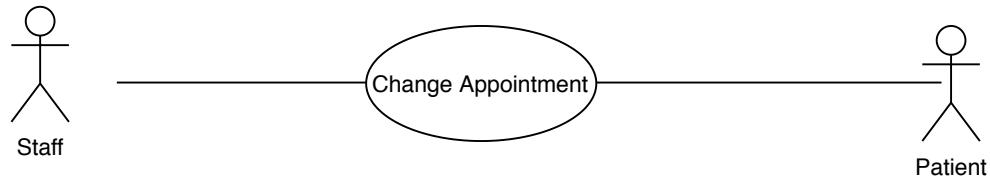
Classes for Log out use case



Classes for Make appointment use case



Classes for Change appointment use case



<<user interaction>>
Staff Interface

<<device interface>>
Change Appointment

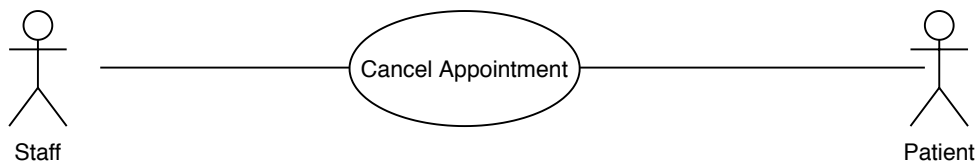
<<entity>>
Update
Patient
Appointment
-Doctor Name
-Patient Name
-Date & Time

<<User Interface>>
Permission
Credentials
-Yes/No

<<entity>>
Doctor
Availability
-Date & Time

<<business logic>>
Healthcare system
Manager

Classes for Cancel appointment use case



<<user interaction>>
Staff Interface

<<device interface>>
Cancel Appointment

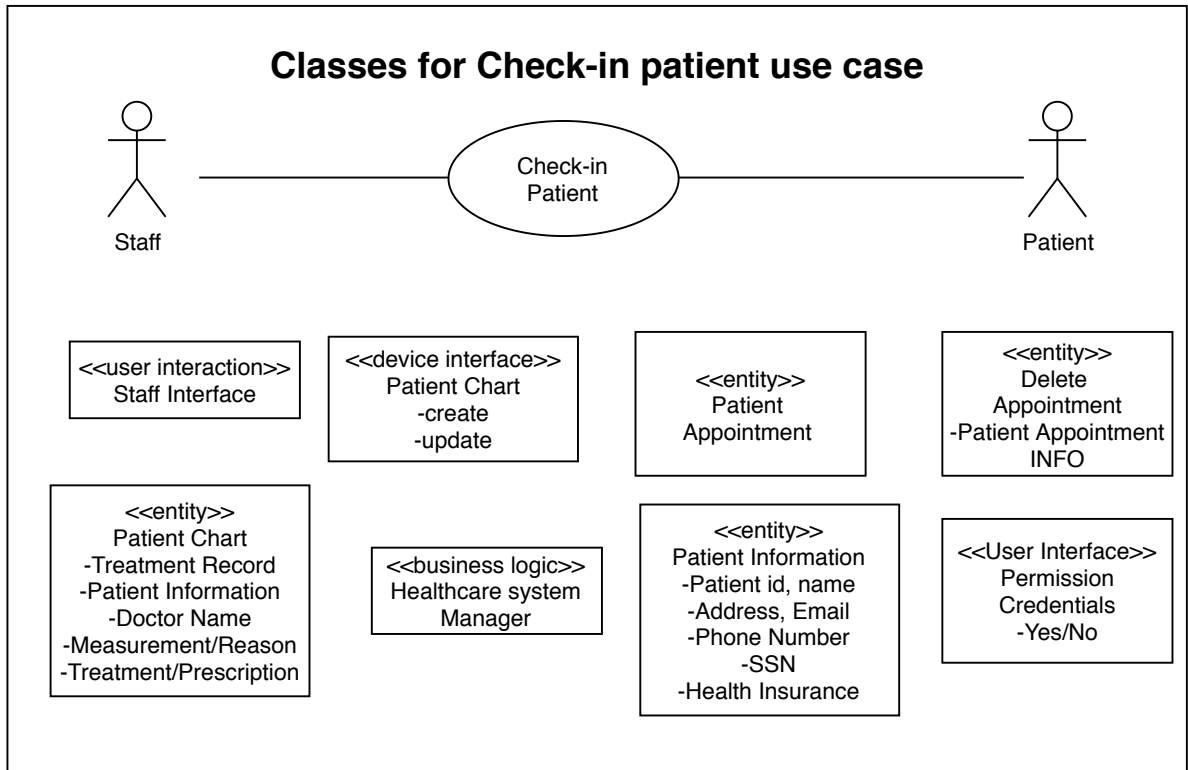
<<entity>>
Delete
Appointment
-Patient Appointment
INFO

<<business logic>>
Healthcare system
Manager

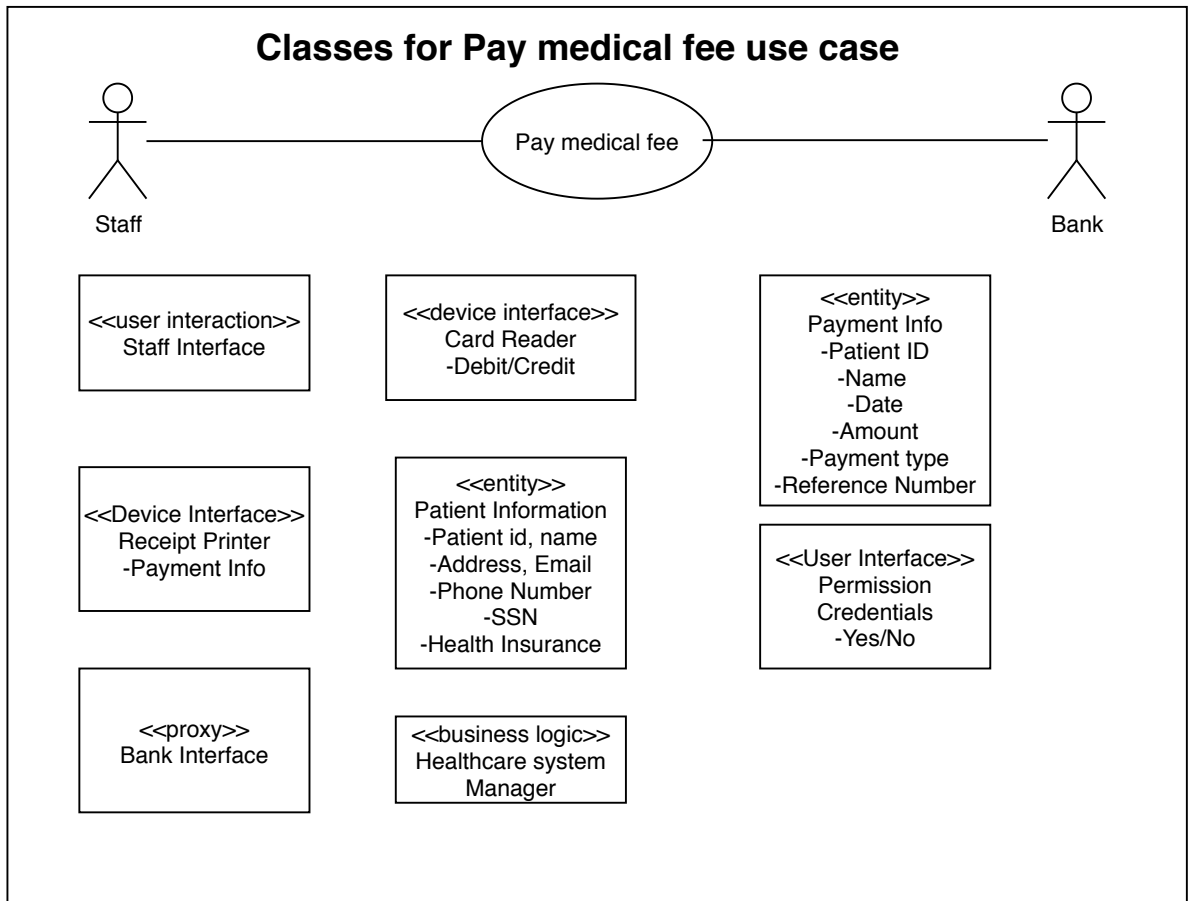
<<entity>>
Patient
Appointment
-Patient Name
-Date & Time
-Doctor Name

<<User Interface>>
Permission
Credentials
-Yes/No

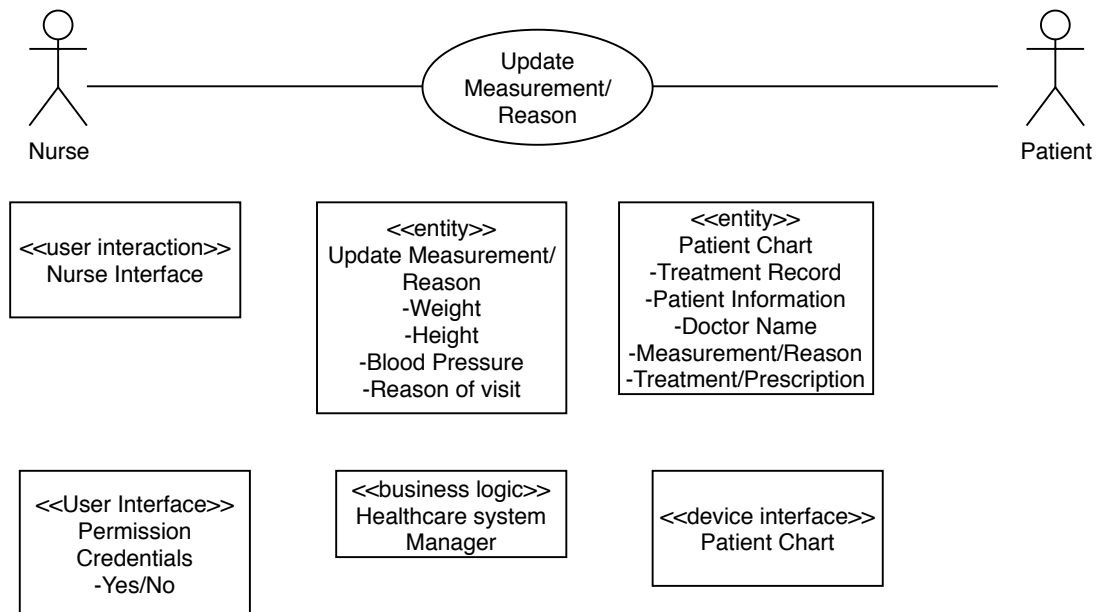
Classes for Check-in patient use case



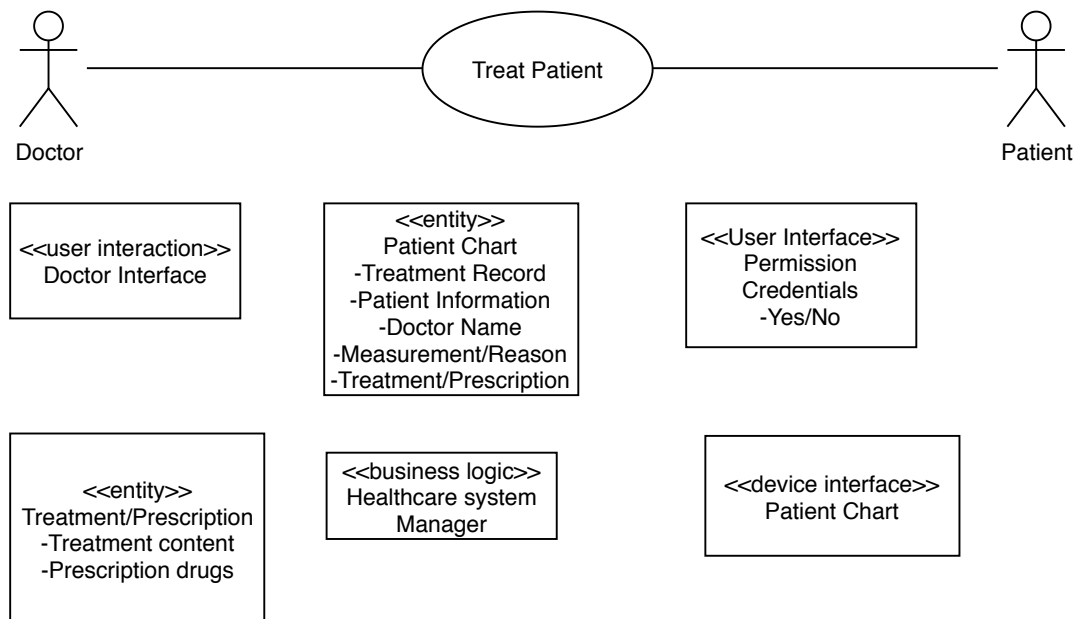
Classes for Pay medical fee use case



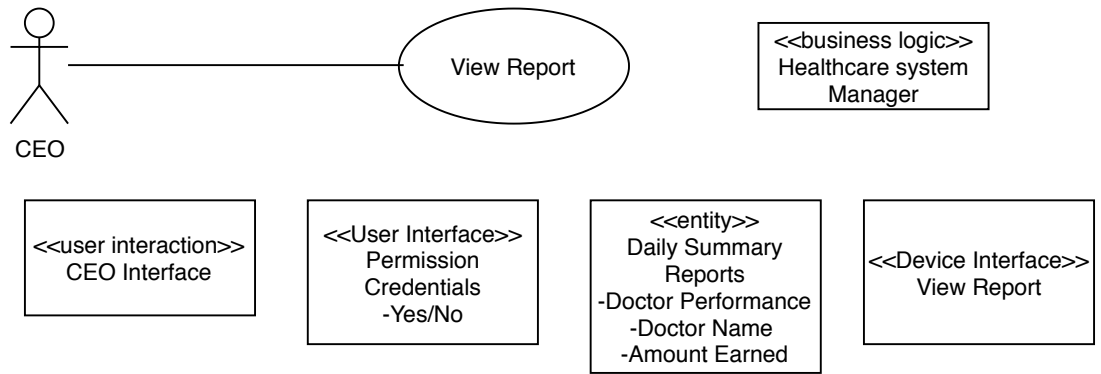
Classes for Update Measurement/Reason use case



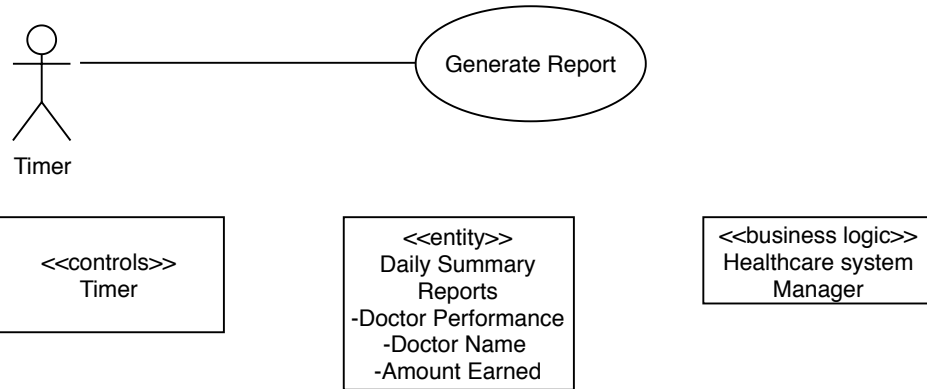
Classes for Treat Patient use case



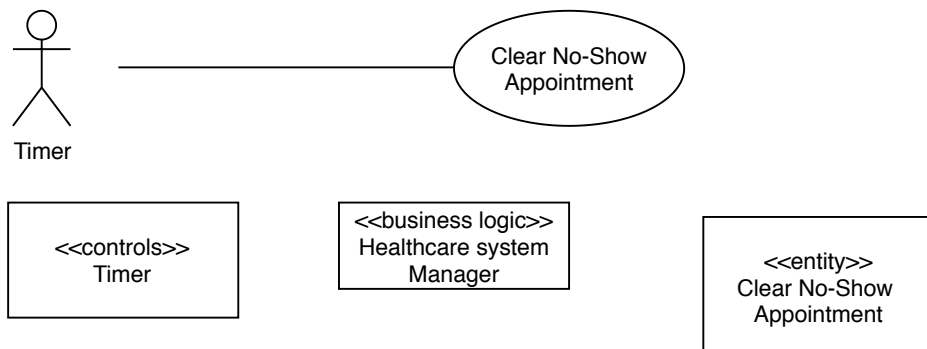
Classes for View Report use case



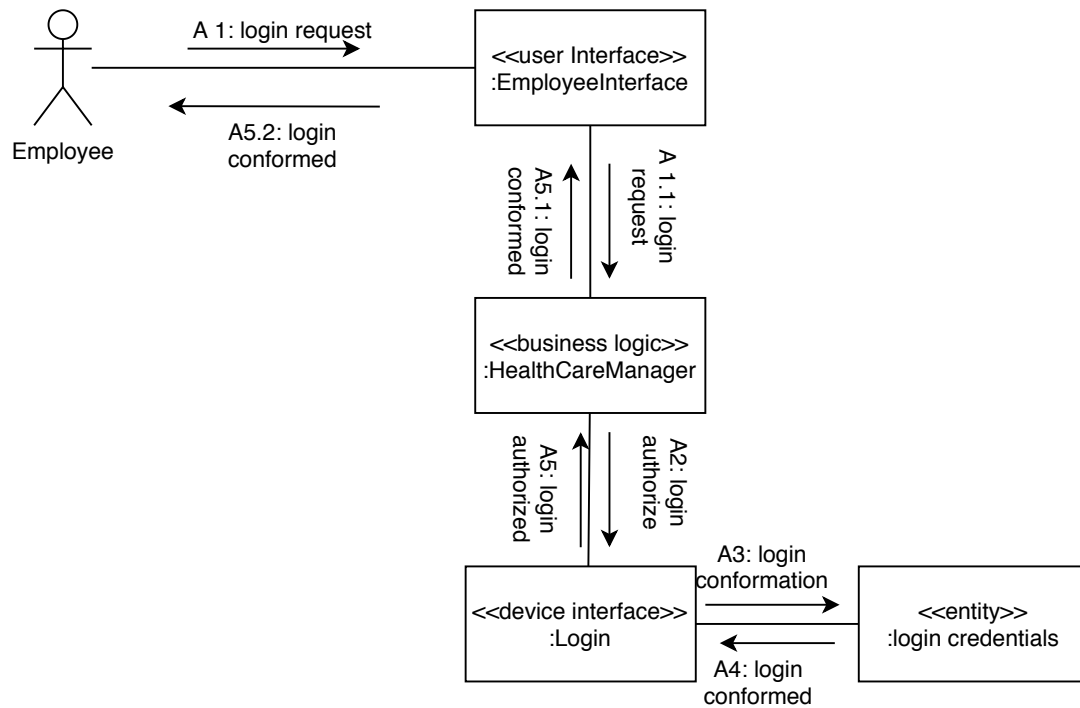
Classes for Generate Report use case



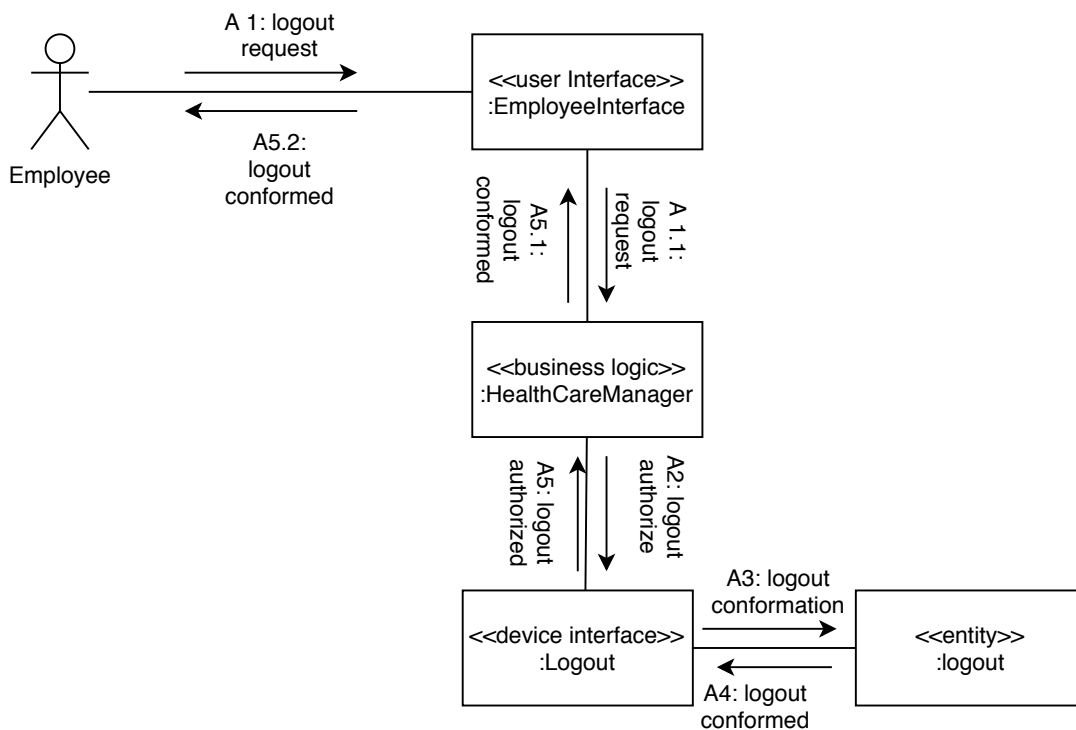
Classes for Clear No-Show Appointment use case



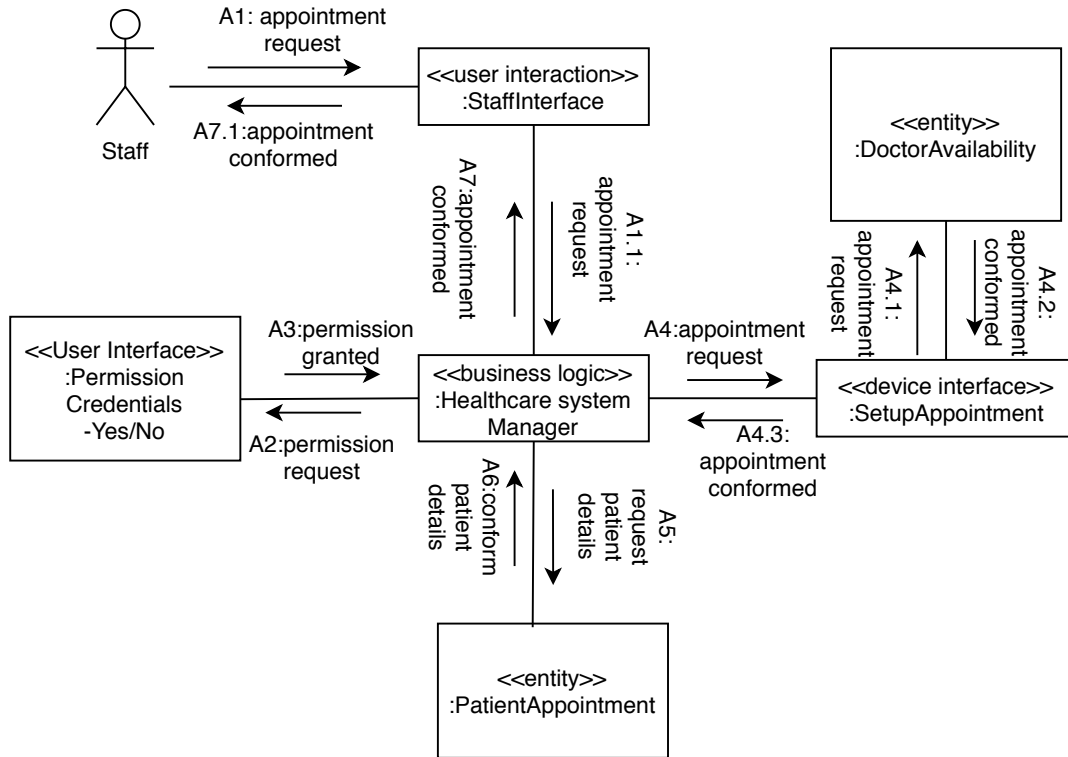
Communication Diagram For Log-In Use Case



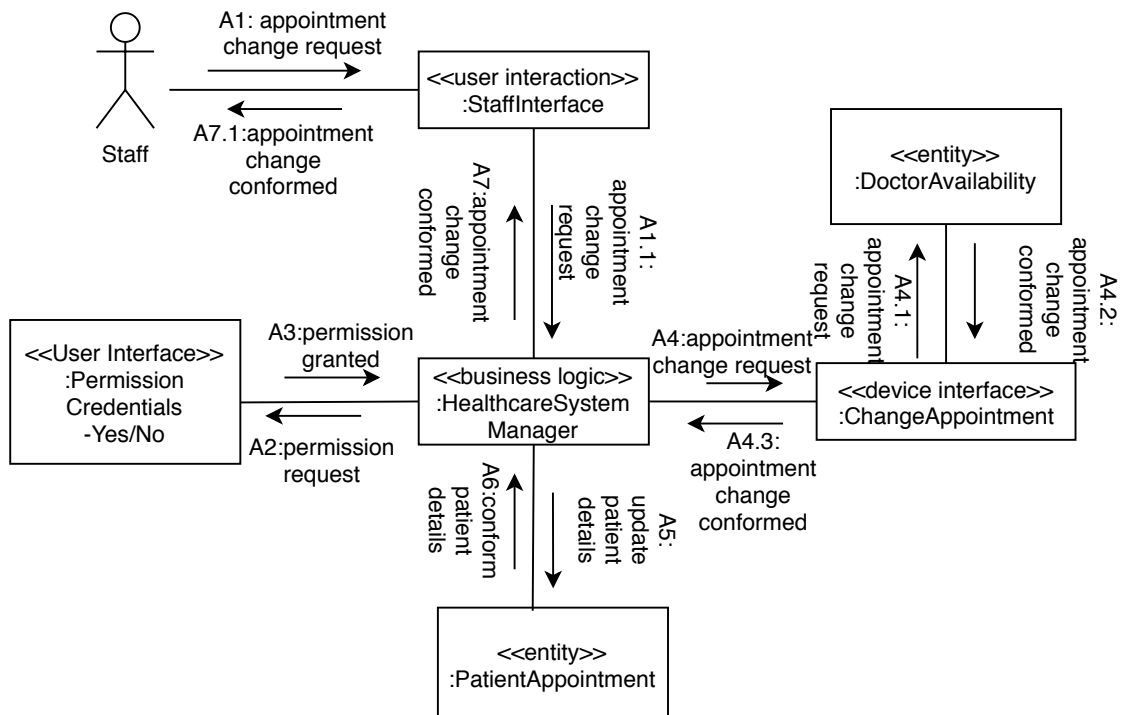
Communication Diagram For Log Out Use Case



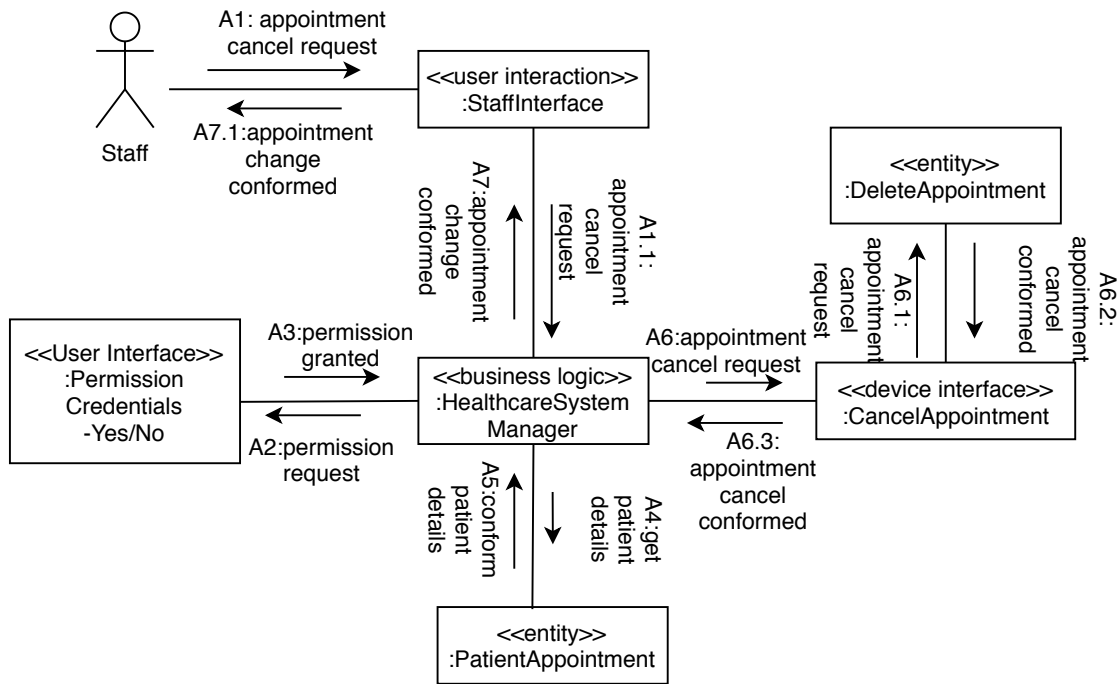
Communication Diagram For Make Appointment Use Case



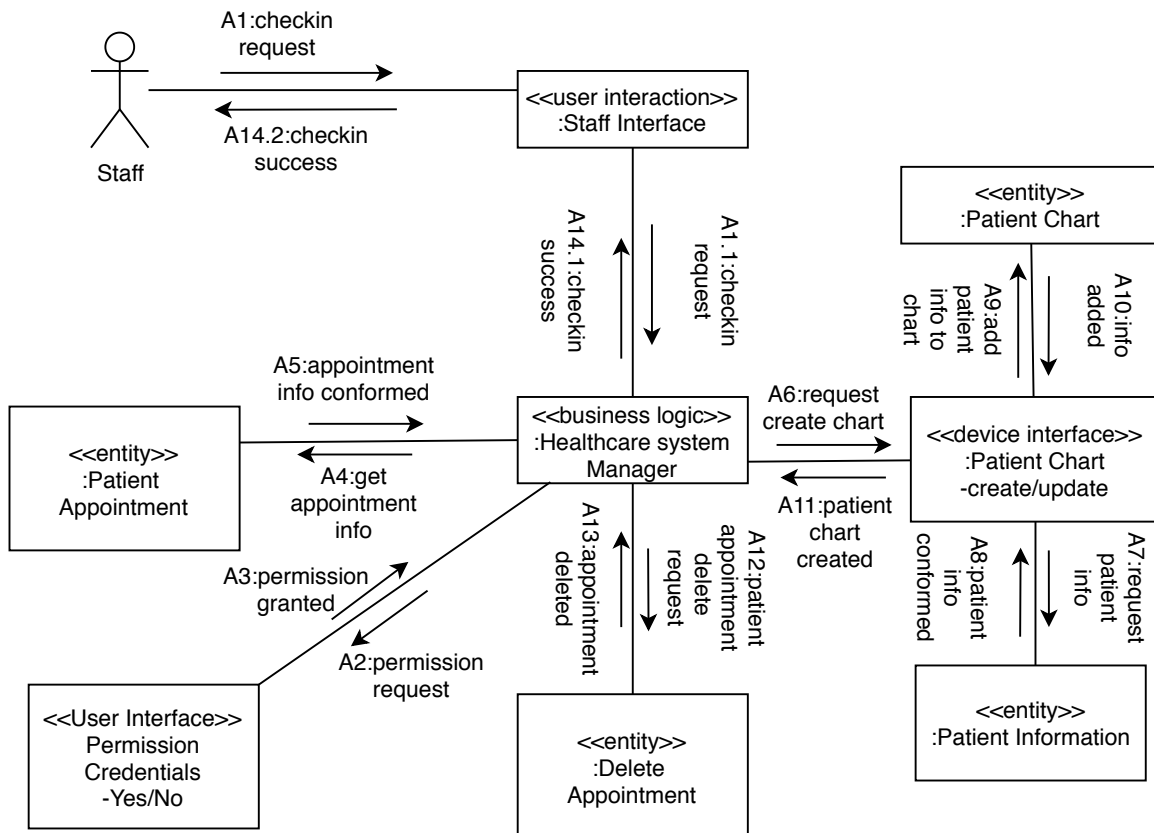
Communication Diagram For Change Appointment Use Case



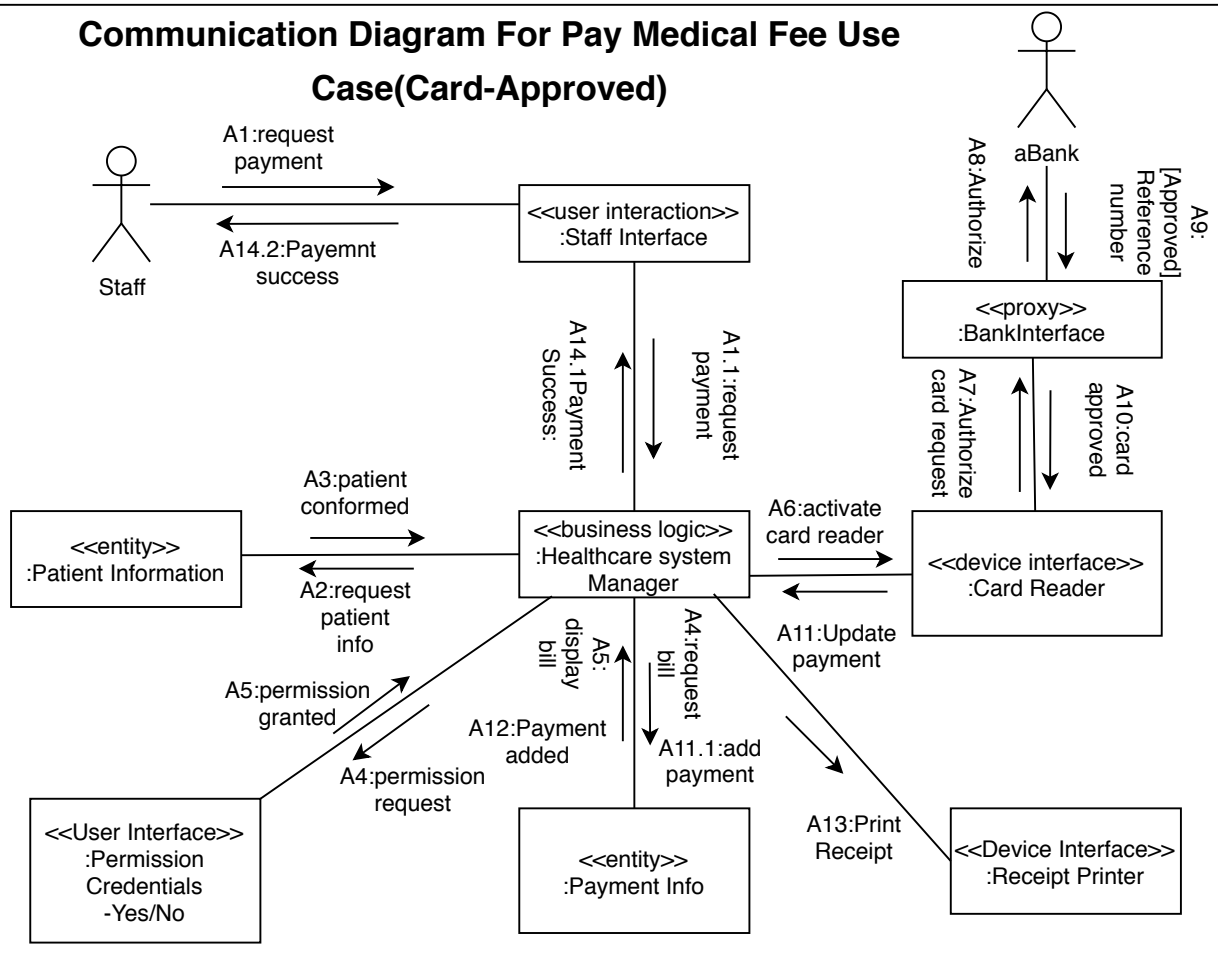
Communication Diagram For Cancel Appointment Use Case



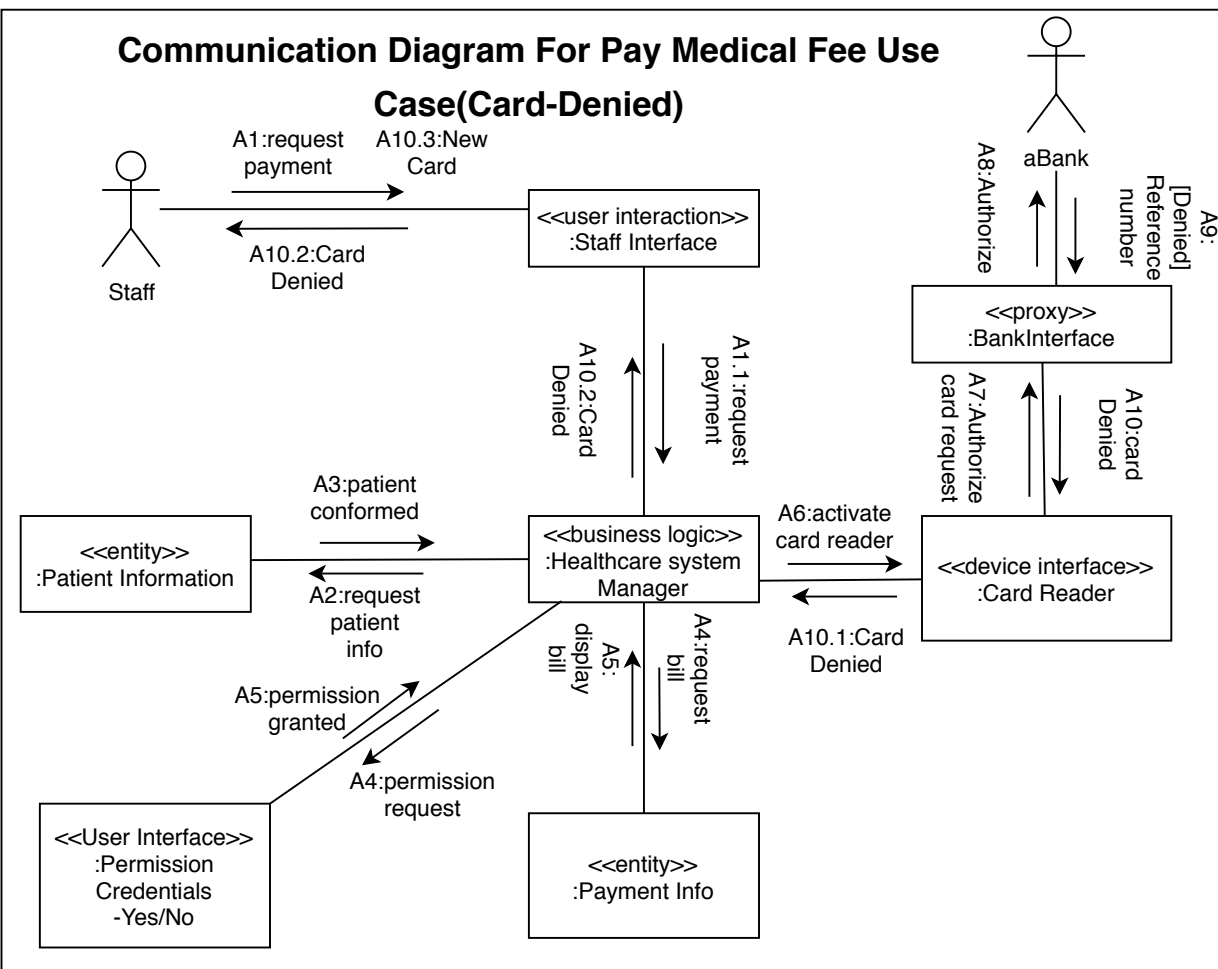
Communication Diagram For Check-in Patient Use Case



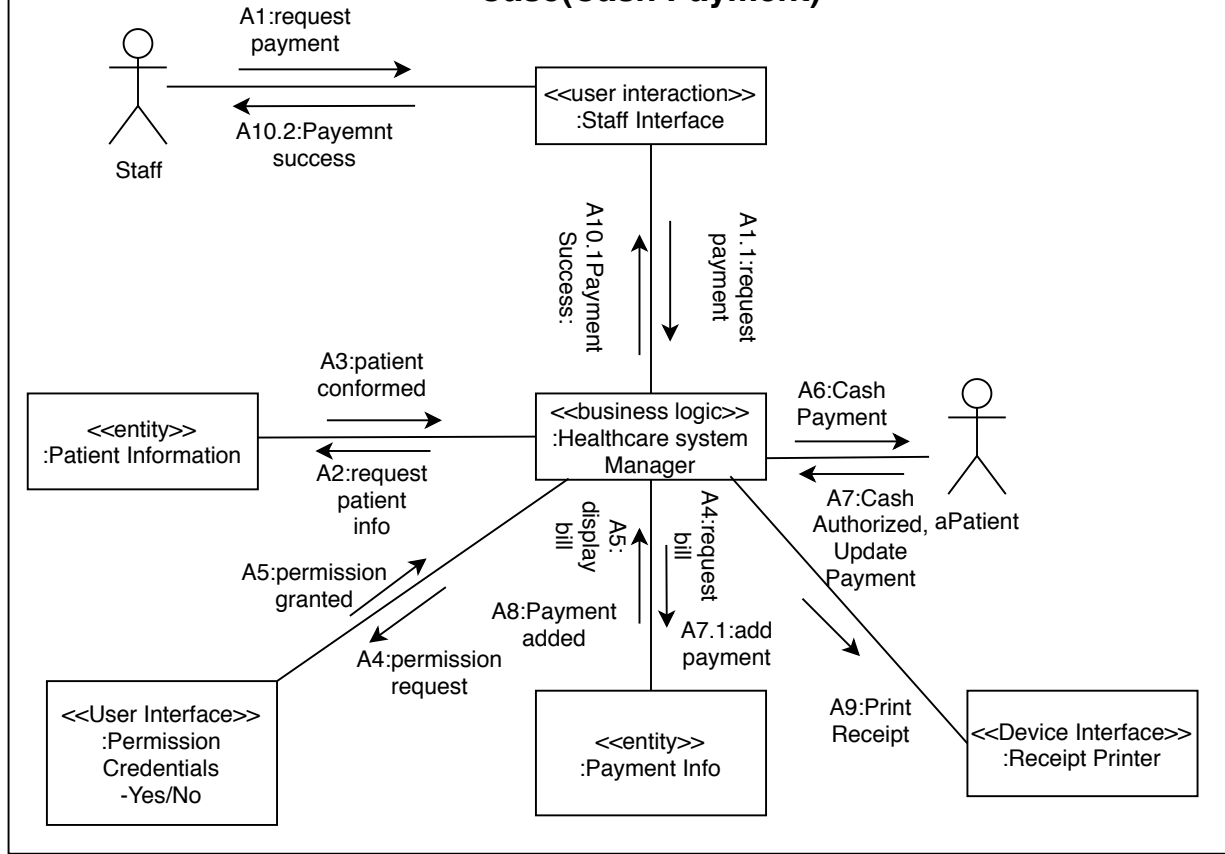
Communication Diagram For Pay Medical Fee Use Case(Card-Approved)



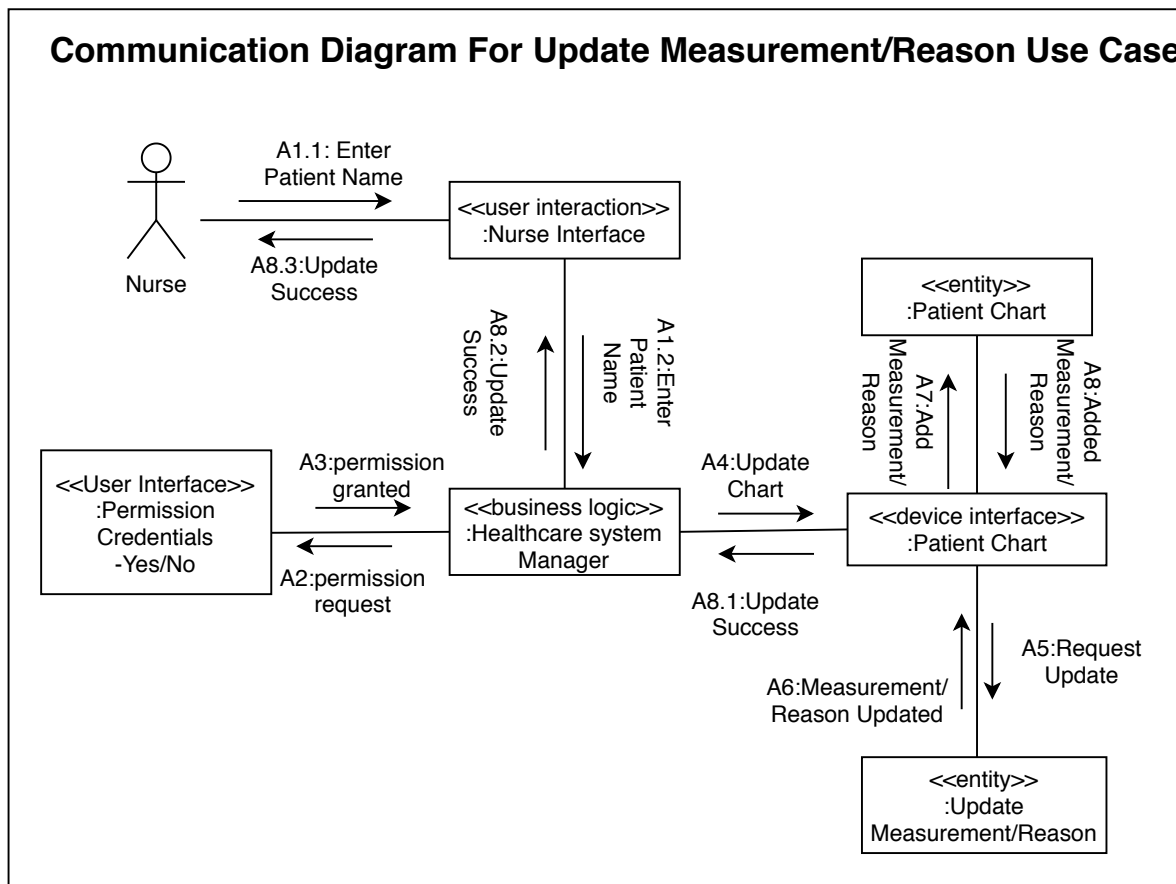
Communication Diagram For Pay Medical Fee Use Case(Card-Denied)



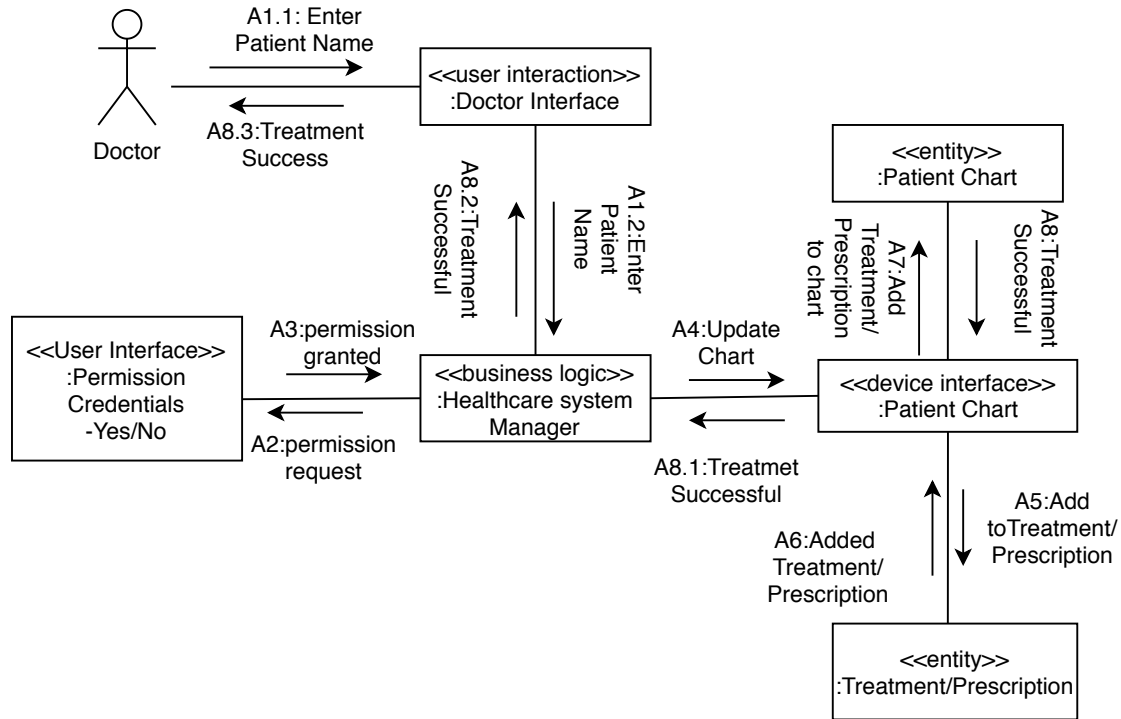
Communication Diagram For Pay Medical Fee Use Case(Cash Payment)



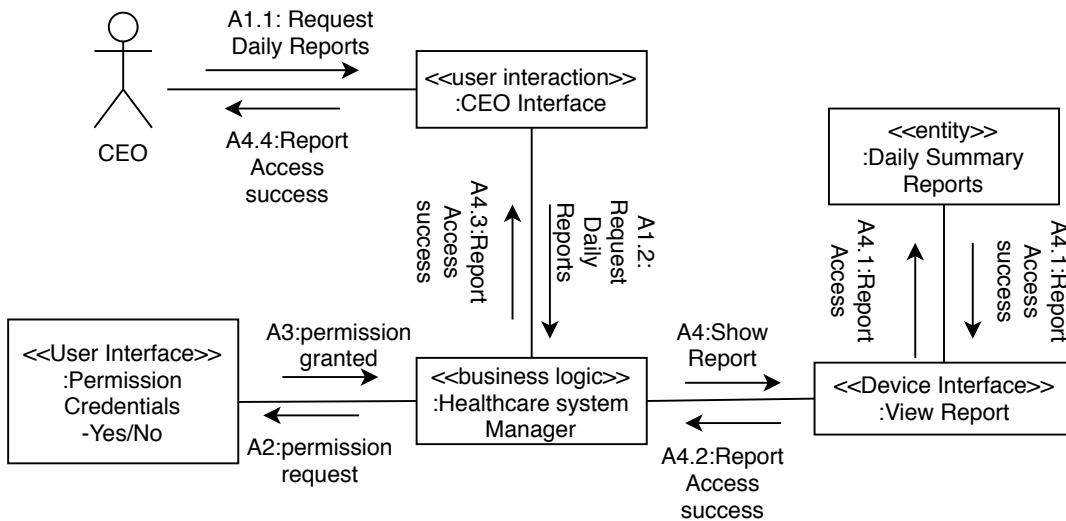
Communication Diagram For Update Measurement/Reason Use Case



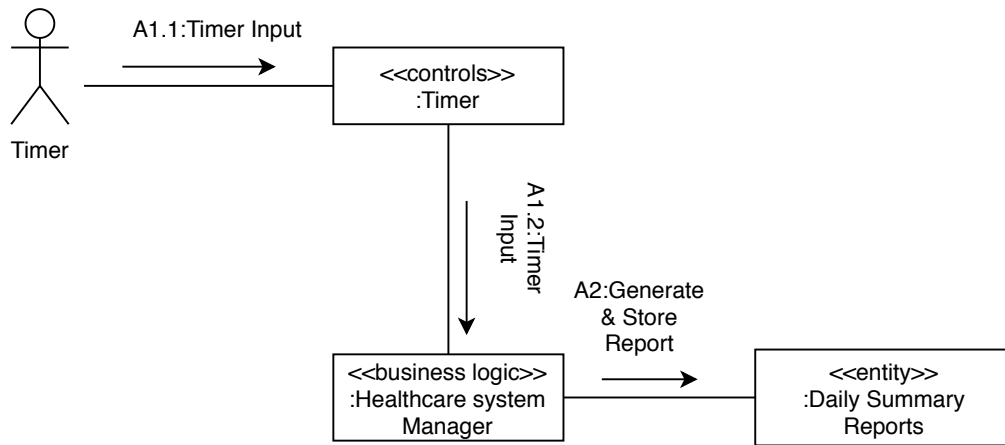
Communication Diagram For Treat Patient Use Case



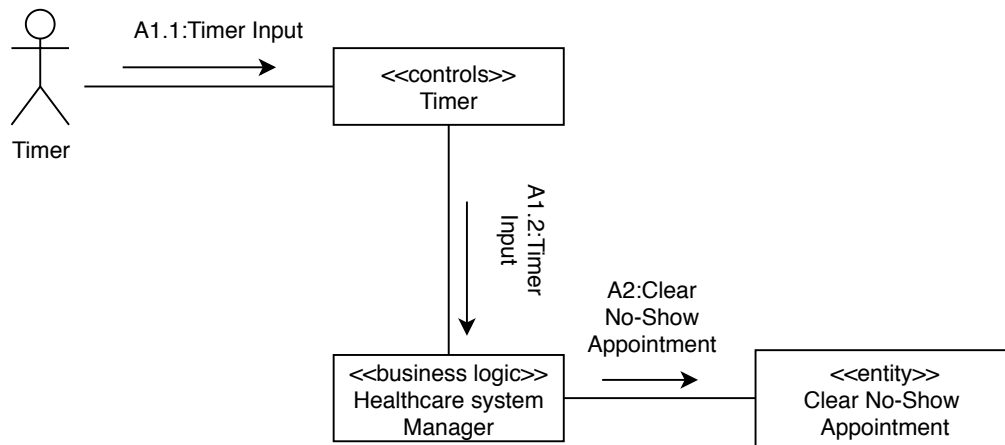
Communication Diagram For View Report Use Case



Communication Diagram For Generate Report Use Case



Communication Diagram For Clear No-Show Appointment Use Case



Patient

Patient_id(PK)	varchar(10)
Patient_name	varchar(20)
Birthday	date
Gender	varchar(1)
Address	varchar(30)
City	varchar(20)
State	varchar(2)
Zip	int(10)
Phone_no	varchar(12)
Email	varchar(30)
Social	varchar(9)
Insurance	varchar(20)

Appointment

apt_id(PK)	varchar(10)
<i>patient_id(FK)</i>	varchar(10)
<i>Doctor_id(FK)</i>	varchar(10)
Patient_name	varchar(20)
Date	date
Time	time
amount_paid	decimal(15,2)
payment	varchar(10)
card_no	varchar(16)
Name_on_card	varchar(30)
Expr	varchar(5)
ref_no	int(10)

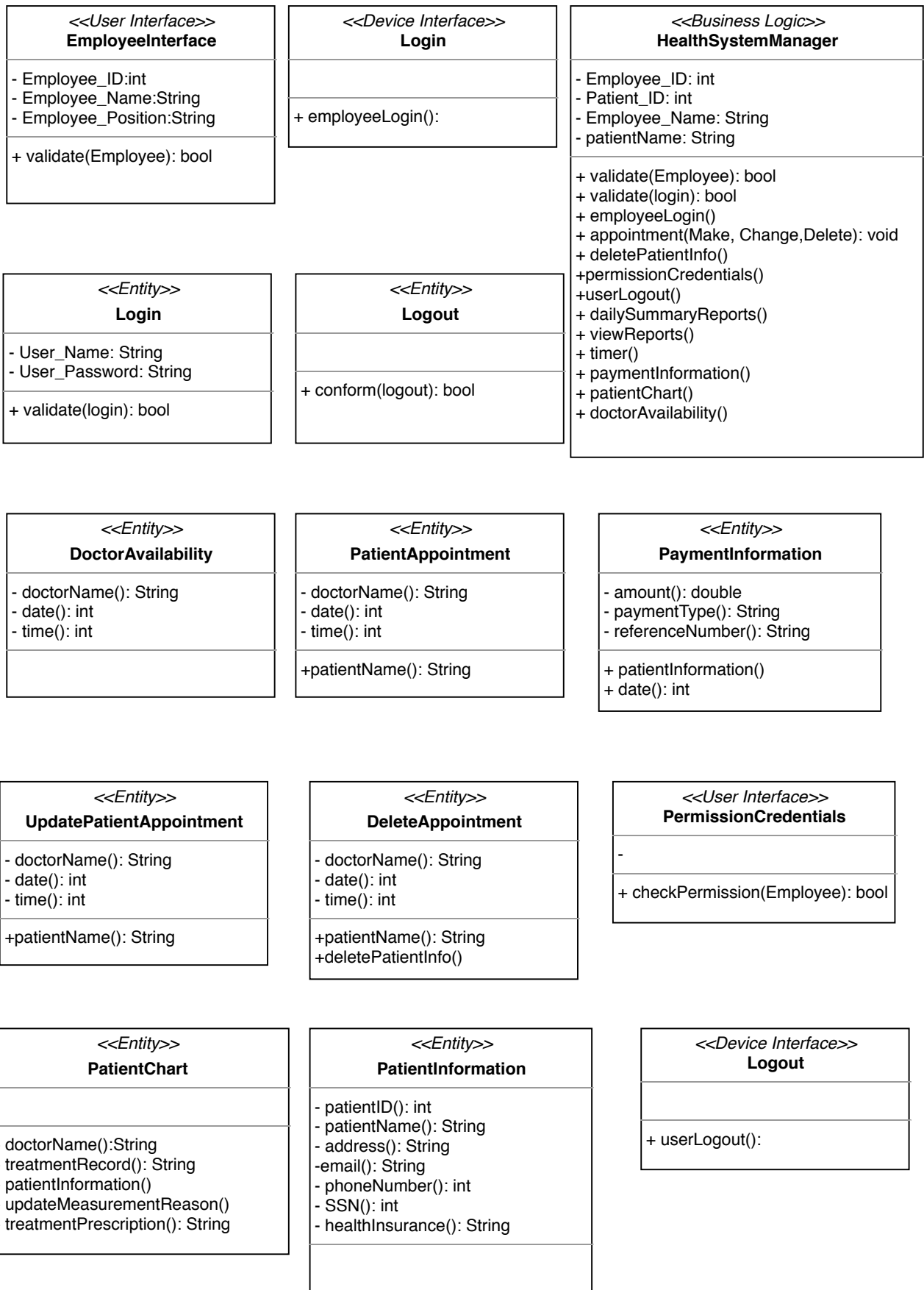
Record

apt_id(PK)	varchar(10)
<i>patient_id(FK)</i>	varchar(10)
Date	date
Visit_Reason	text
Weight	float
height	varchar(5)
Blood_pressure	varchar(10)
treatment	text
prescription	varchar(25)

Employee

employee_id(PK)	varchar(10)
username	varchar(20)
pass_hash	varchar(64)
Name	varchar(30)
Position	varchar(15)

Class Operation for Healthcare System(HCS)



<<Entity>> UpdateMeasurementReason
- weight(): double - height(): double - bloodPressure(): double - reasonOfVisit(): String

<<Entity>> TreatmentPrescription
-treatmentContent(): String -prescriptionDrugs(): String

<<Entity>> DailySummaryReports
- doctorPerformance(): int
+ doctorName():String +amount(): double

<<Device Interface>> ViewReport
+ displayDailySummaryReports()

<<Controls>> Timer
+ closintTime(time, date)

<<Entity>> ClearNoShowAppointment
+ clearPatientAppointment()

<<Device Interface>> CardReader
+ cardType(credit, debit)

<<Proxy>> BankInterface
+ authorize(cardNumber): int

<<Device Interface>> ReceiptPrinter
+ paymentInformation()