OOAD

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Online Dental Clinic Management System

1.Identify the main functionalities and draw overall use case diagram for the main success scenario.

Main Functionalities:

- Managing User Database
- Appointment management
- Patient information management
- Medical and dental record management
- Treatment management
- Billing management

Use cases for each actor in the Online Dental Clinic Management System:
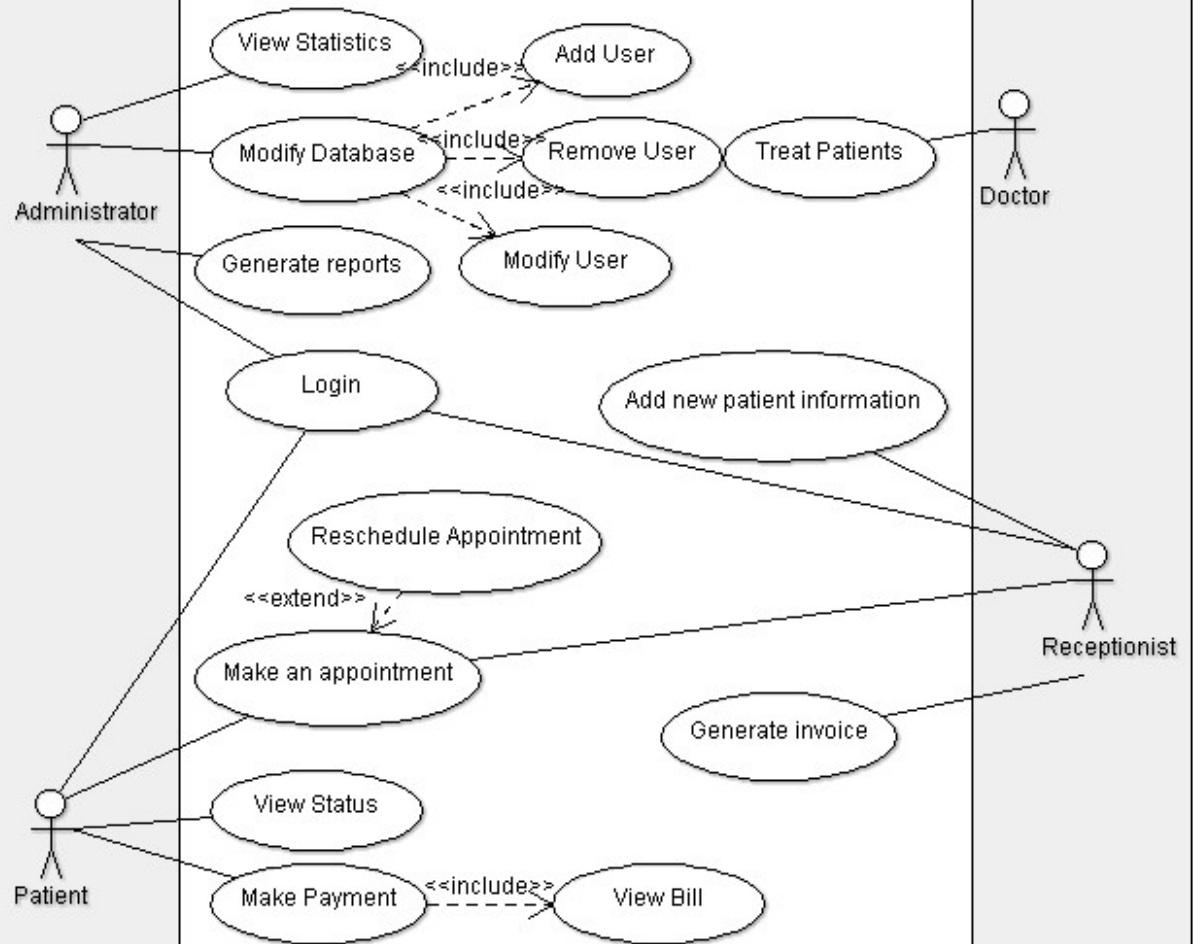
Administrator:
- Modify Database
- Generate reports
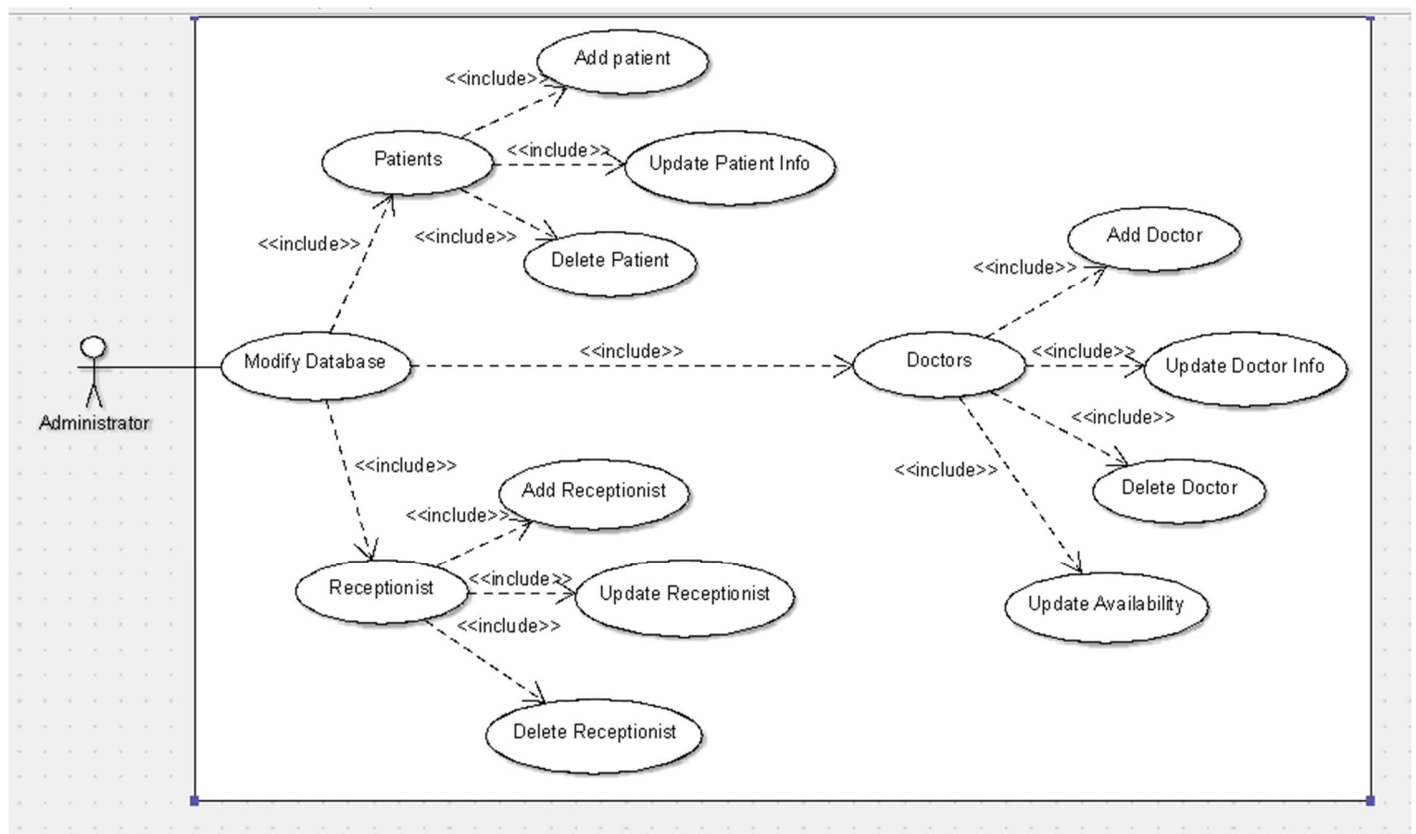- View clinic statistics

Receptionist:
- Schedule appointment
- Reschedule appointment
- View patient information
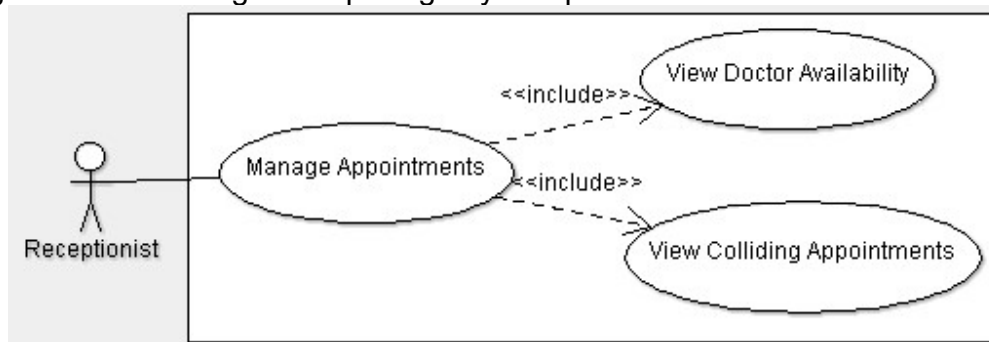- Add new patient information
- Generate invoice

Patient:
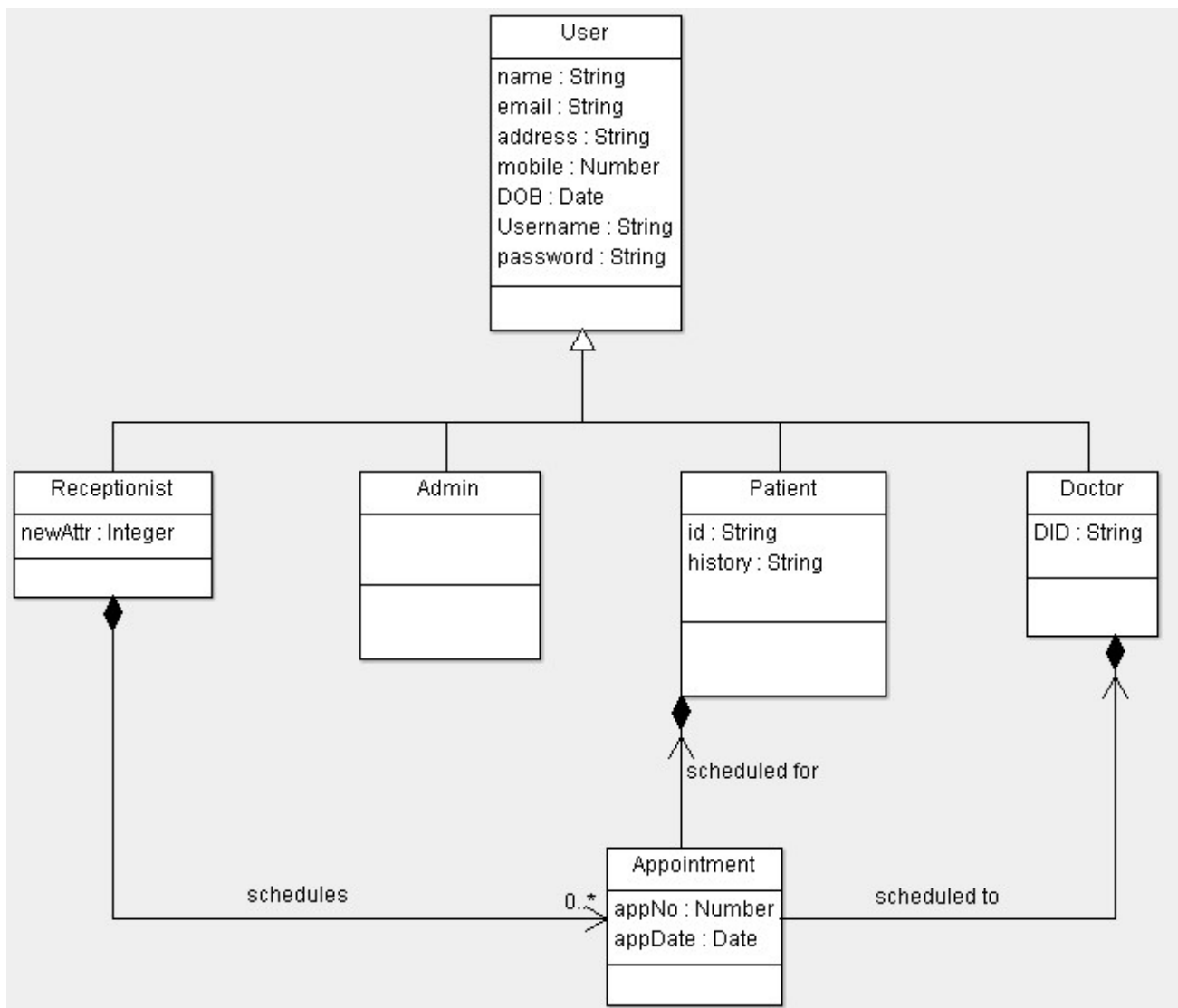- Schedule appointment
- Reschedule appointment
- Make payment

2.Draw / design a use case diagram for any one of the main functionalities

3.Draw / design a use case diagram depicting any one possible failure case

4. Identify the concepts involved draw/ design the domain and class diagram with the relationships

User

name : String
email : String
address : String
mobile : Number
DOB : Date
Username : String
password : String

Receptionist

newAttr : Integer

Admin

Patient

id : String
history : String

Doctor

DID : String

schedules

0..*

Appointment

appNo : Number
appDate : Date

scheduled for

scheduled to

User

name : String
email : String
address : String
mobile : Number
DOB : Date
Username : String
password : String

Login()

Admin

CreateUser()
ViewStatistics()
generateReport()

Receptionist

newAttr : Integer

addPatient()
GenerateInvoice()
makeAppointment()

Doctor

DID : String

treat()
addReport()

Patient

id : String
history : String

viewStatus()
makeAppointment()
makePayment()

0..*

scheduled to

schedules

Appointment

appNo : Number
appDate : Date

scheduled for

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5. Draw / design the overall sequence diagram for the entire application
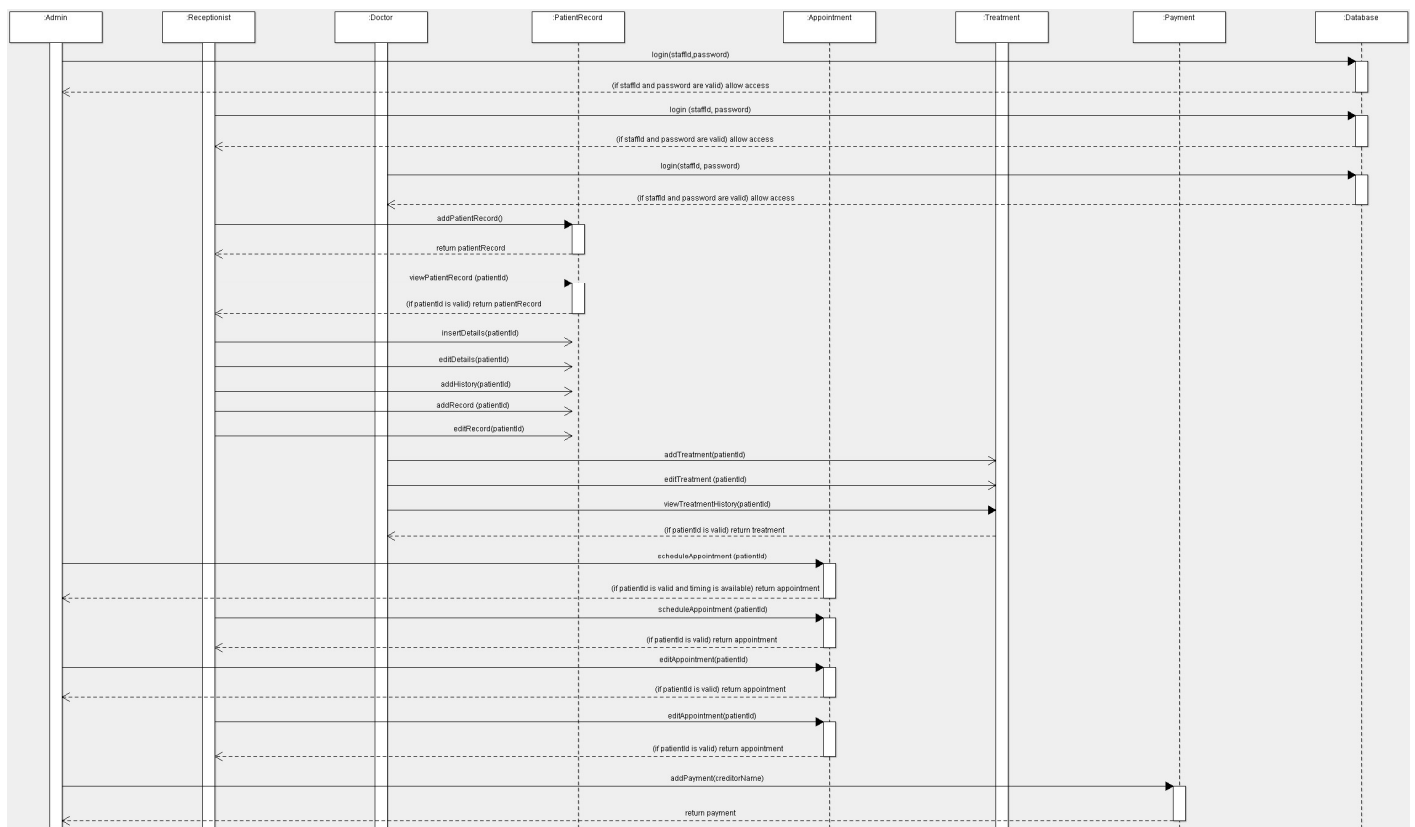
6. Draw / design the overall collaboration diagram for the entire application