

"Hospital Management System"

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-This project made by:-

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Agenda:-

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- **Overview.**
 - **Objectives.**
 - **Requirements.**
 - **Problems we have in the projects.**
 - **Project diagrams.**
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Objectives:-

- ❖ Protect patients records.
 - ❖ Easily access patient records in multiple ways.
 - ❖ Communicate with other hospital sections (emergency, hospital clinic, Radiology Center).
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Requirements:-

1-Create a new record for the patients includes data that will reserve in the hospital in terms of (name, age, patient status, department, room number, bed number, and date of reservation, special ID) to retrieve the patient's data when any problem occurs.

2- Create a data record categorized chronic and non-chronic diseases: Where a patient with a chronic disease is transferred to another hospital if the hospital's treatment shows no response or the technology necessary for treatment is not available, and there is also a special record for the cases of patients with highly chronic disease.

3- Establishing communication between the hospital system and the other specialized hospital systems so that patients are transferred to another department to provide urgently and required care that is not available, such as critical surgery and some chronic cases.

4- Emergency Department:-

- Where there is direct contact between the emergency and the specialist doctor when needed.
- Calculating the number of beds and reconciling them with the number of patients to be reserved.

5-The process of calculating the number of beds in each department and reconciling with the number of patients to be reserved.

6-Providing direct contact between the doctor and the hospital's clinic to see if treatment is available or not and if there is an alternative to treatment for what is not available.

7- A file for the intensive care unit, the radiology department, and there will be direct contact with the doctor, and keep the analysis and x-rays of each patient in his file until needed.

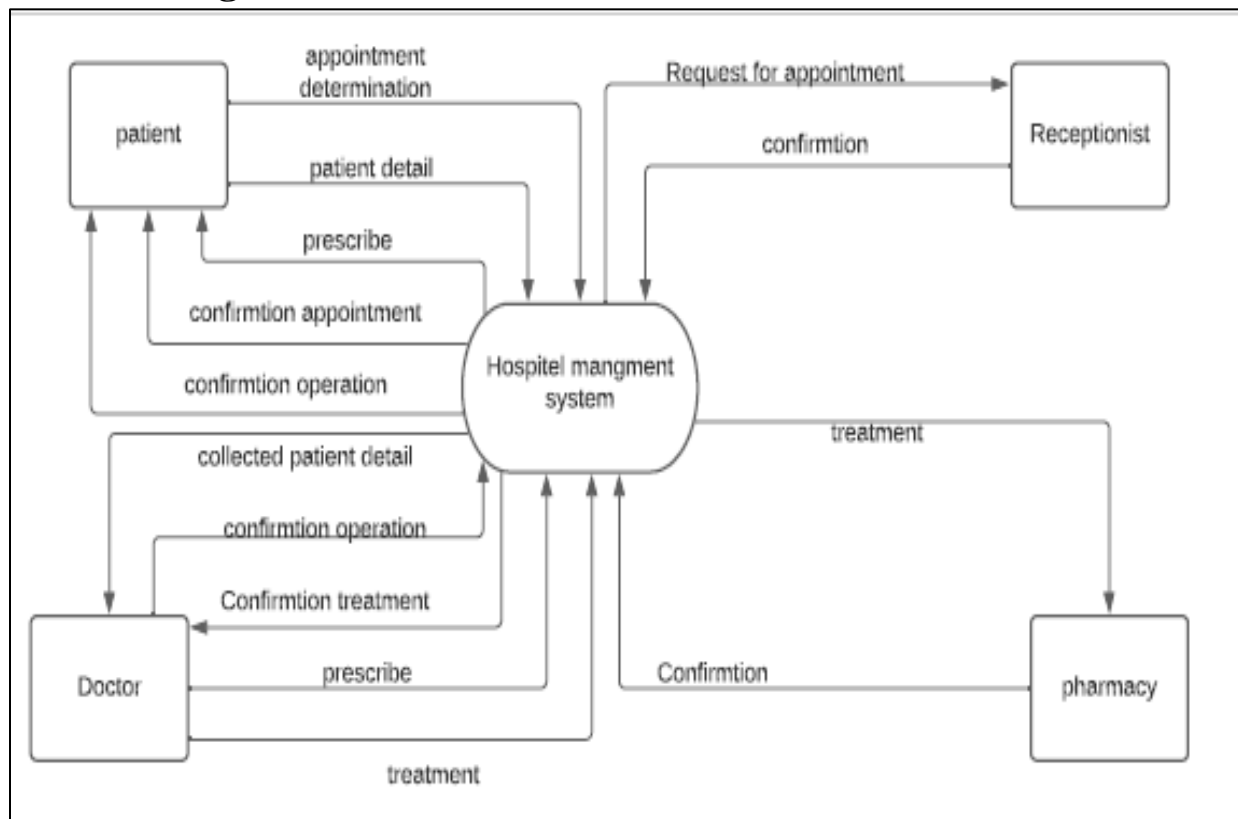
8- Rescue operation "code blue", which is a connection between the hospital system and the closest specialized doctor to find out the patient's location.

Problems we have in the projects:-

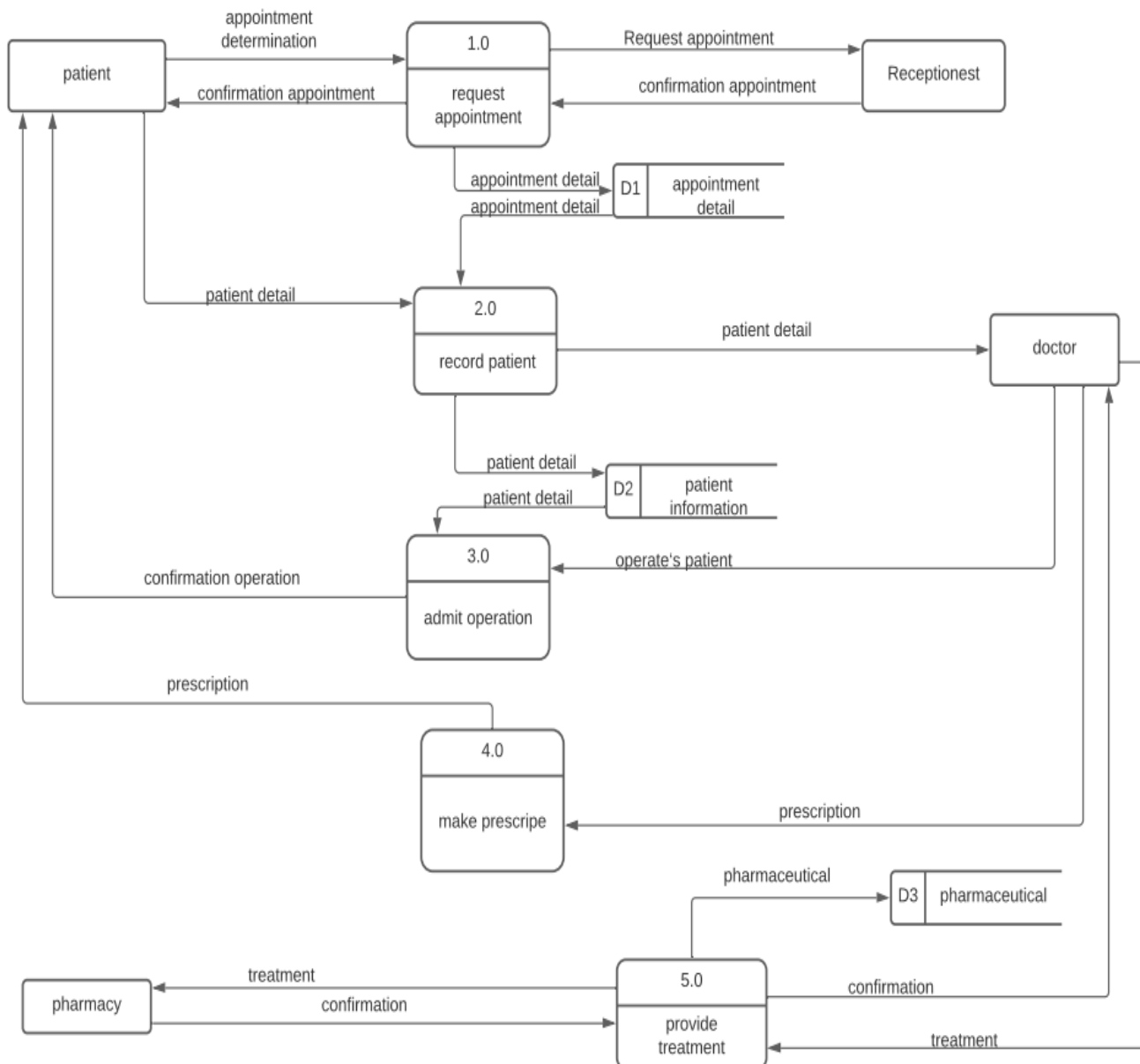
- Searching for patient as it wasn't easy for the doctors to remember the patient
→ we tried to add more than one option to search for the patient like (name, id, data of last visit, and others).
 - Determine the place of the code blue → have records of number of beds in each department and give exact details about the place of code blue .
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Project diagrams: -

1- Context diagram.

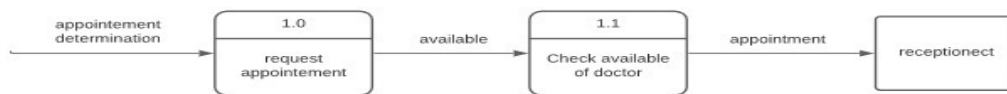


2- Level 0: -

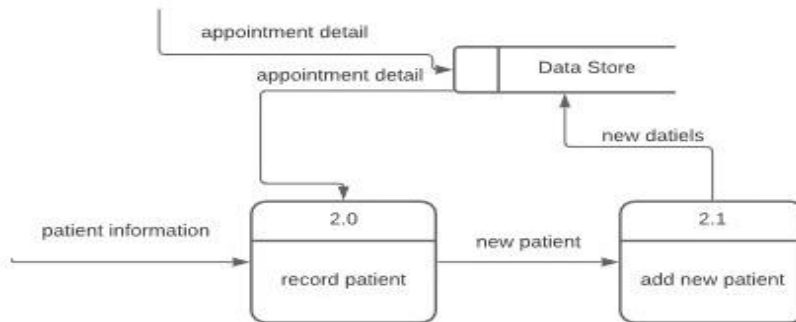


3-Level 1:-

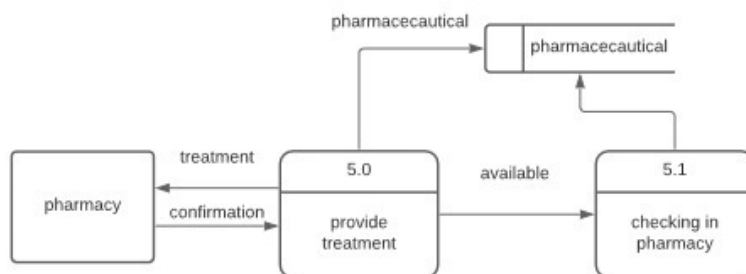
1-



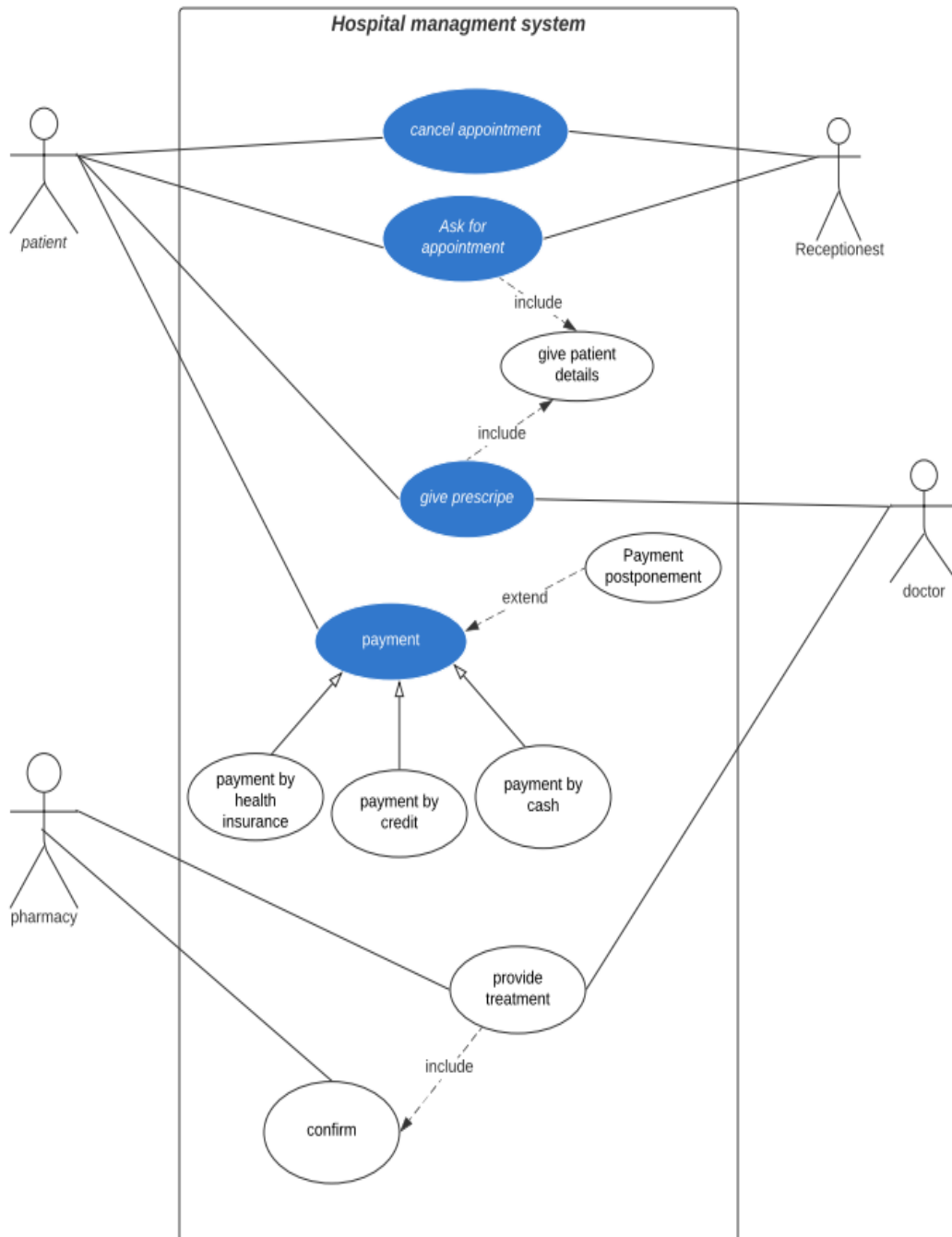
2-



3-

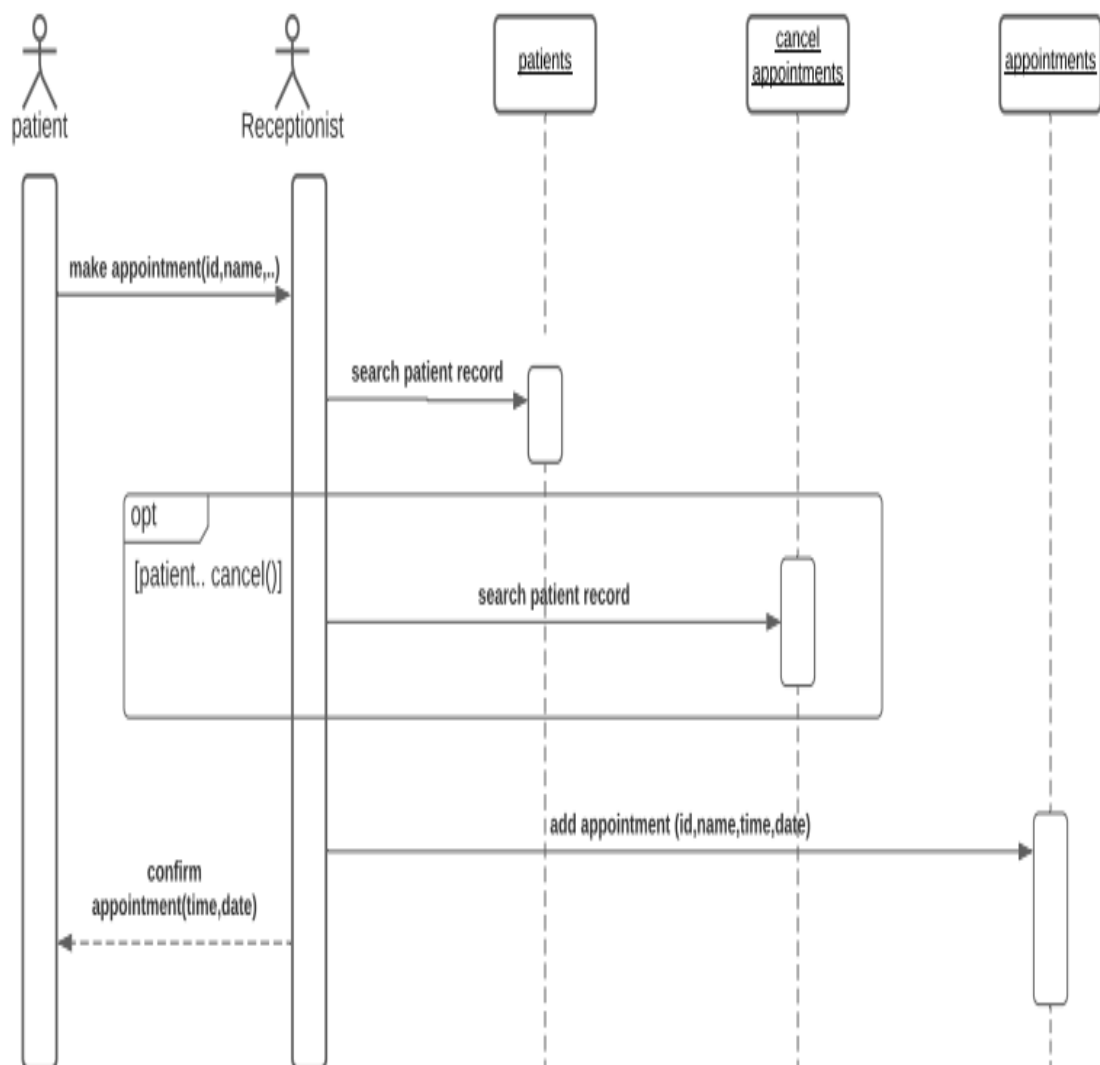


4-use case:-

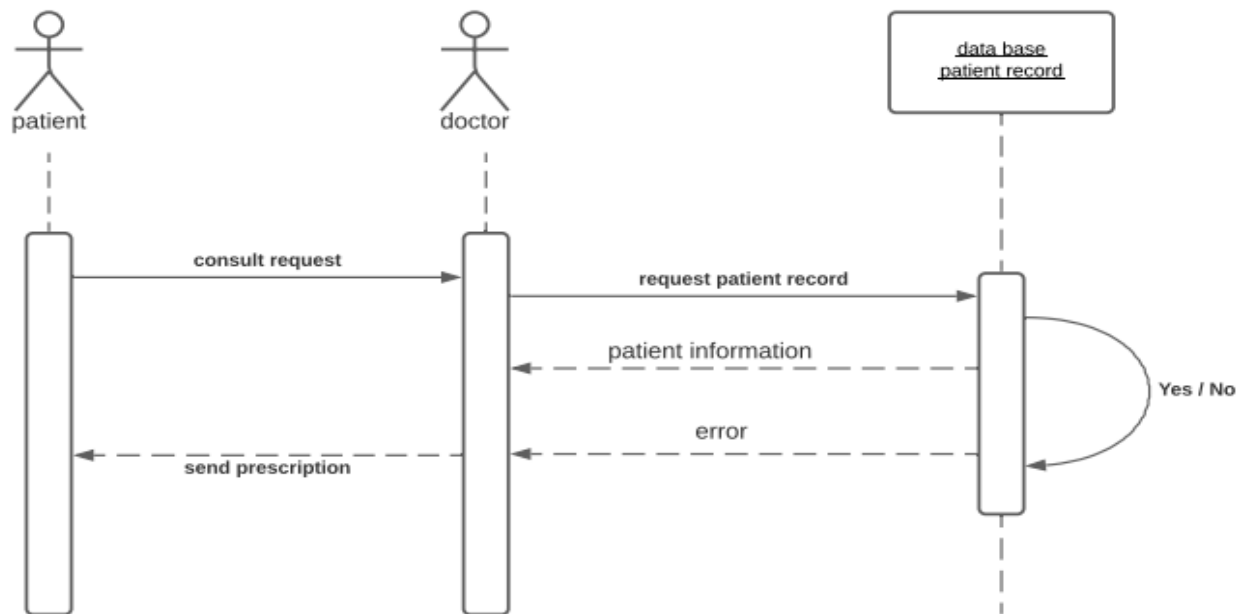


5-sequences:-

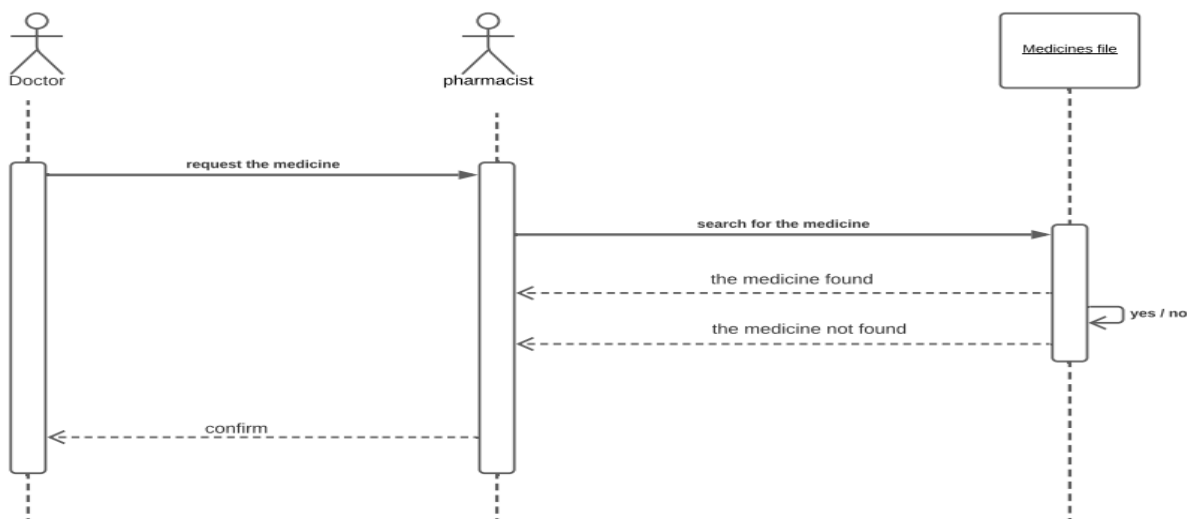
- Ask and Cancel an appointment.



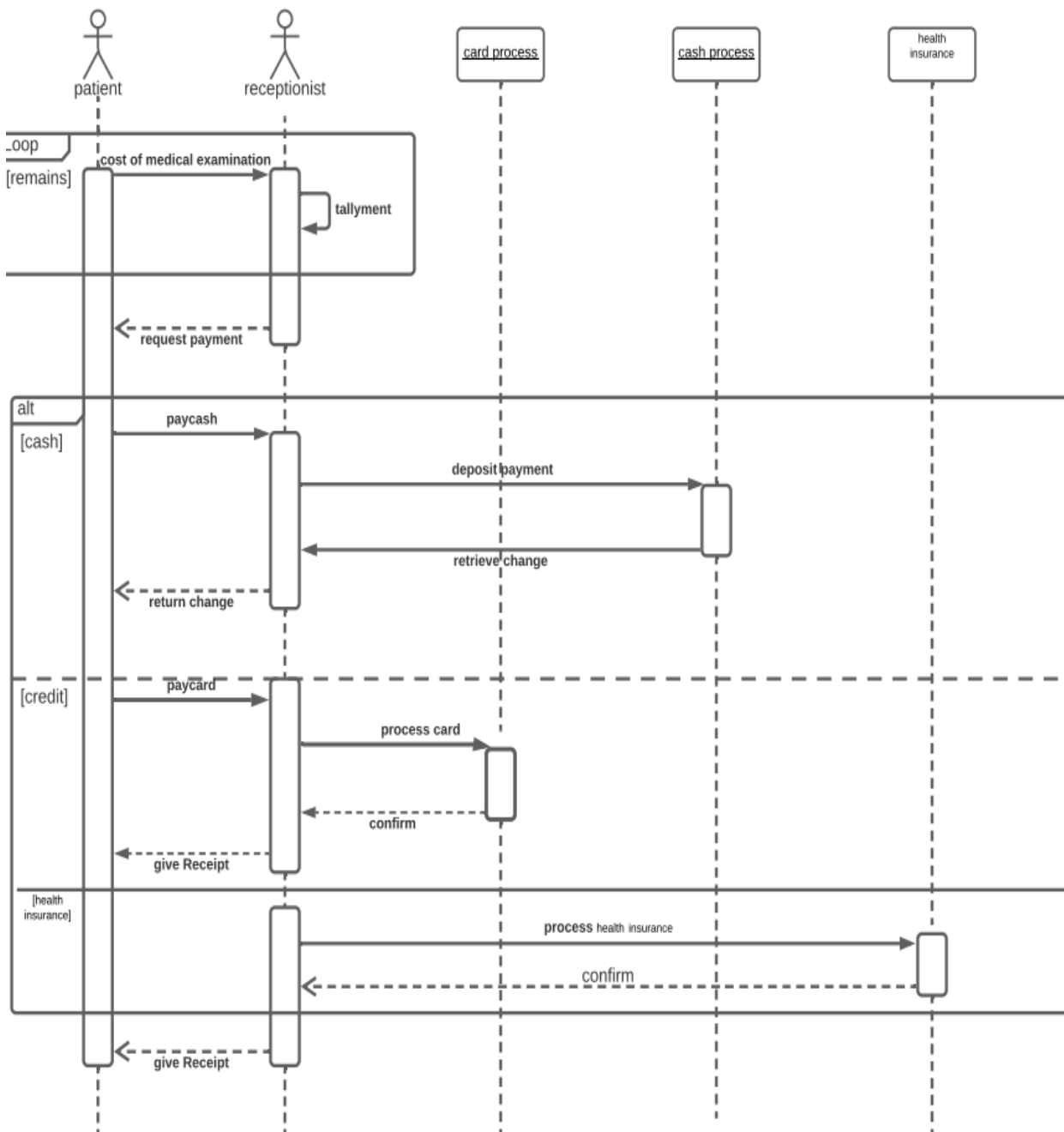
- Give prescription.



- Provide treatment.



- Payment.

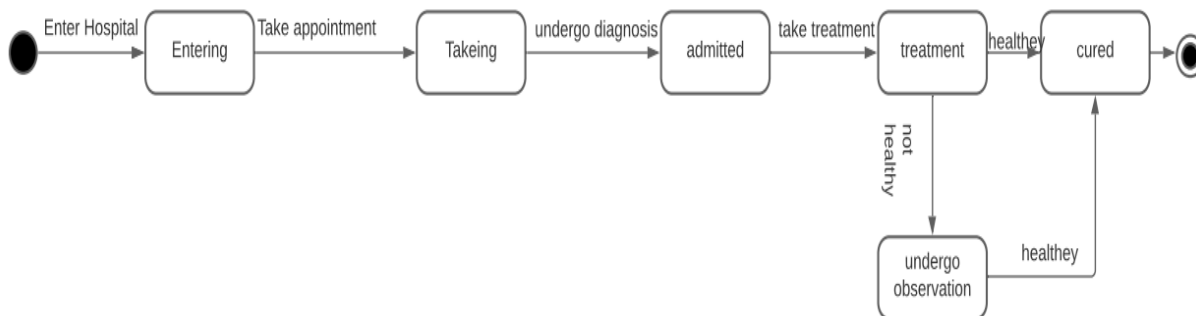


6-states: -

- State doctor.



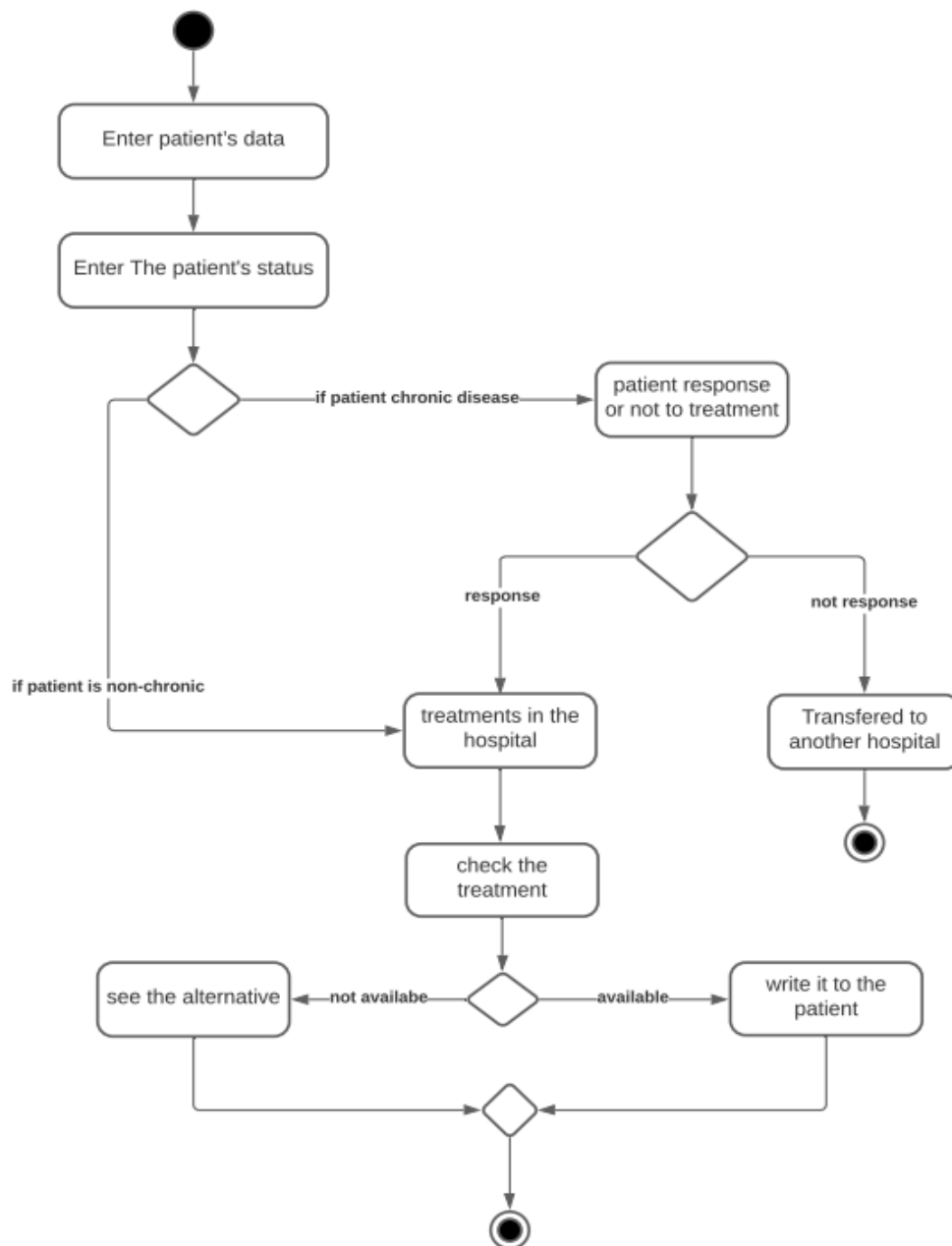
- State patient.



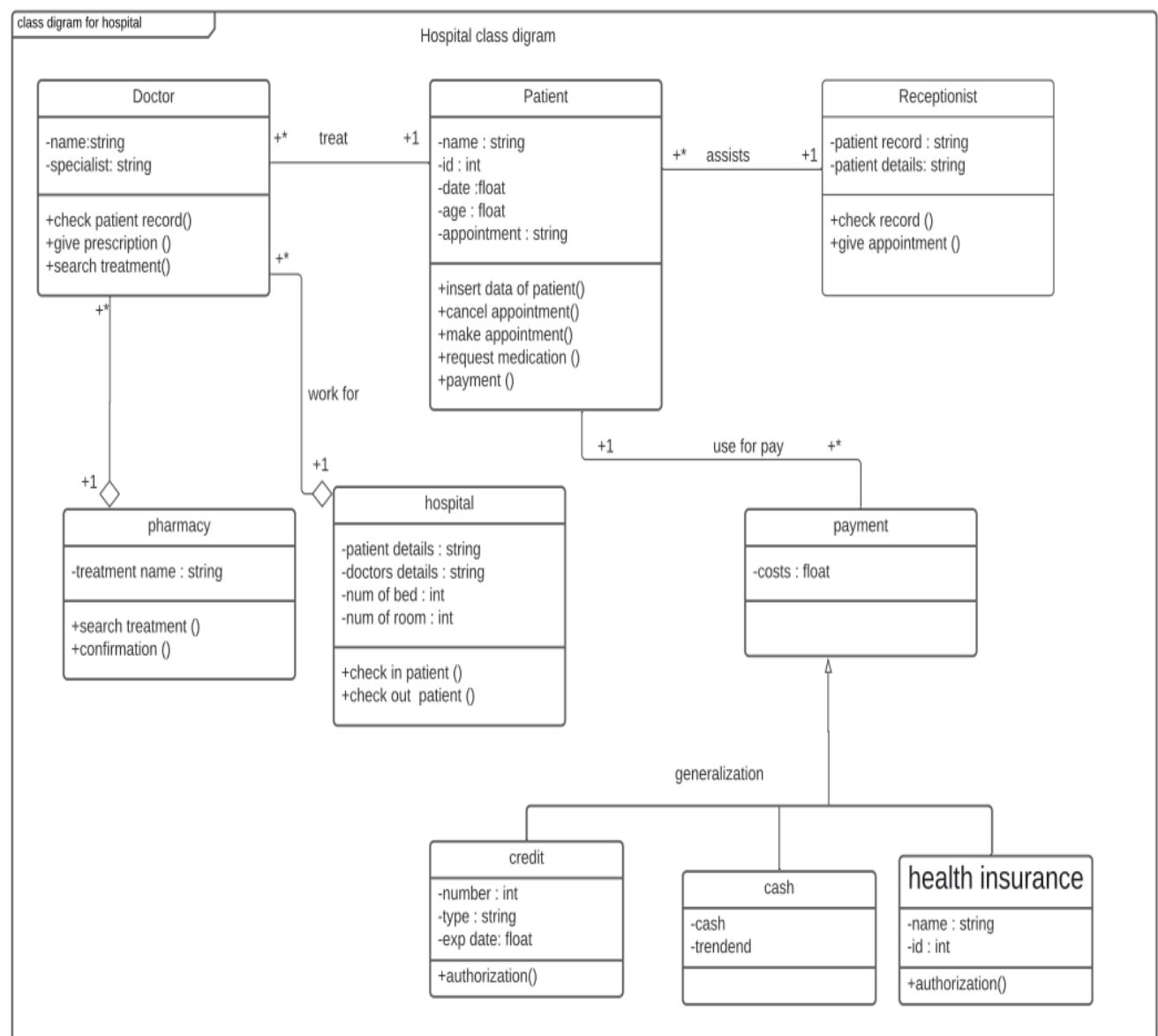
- State receptionist.



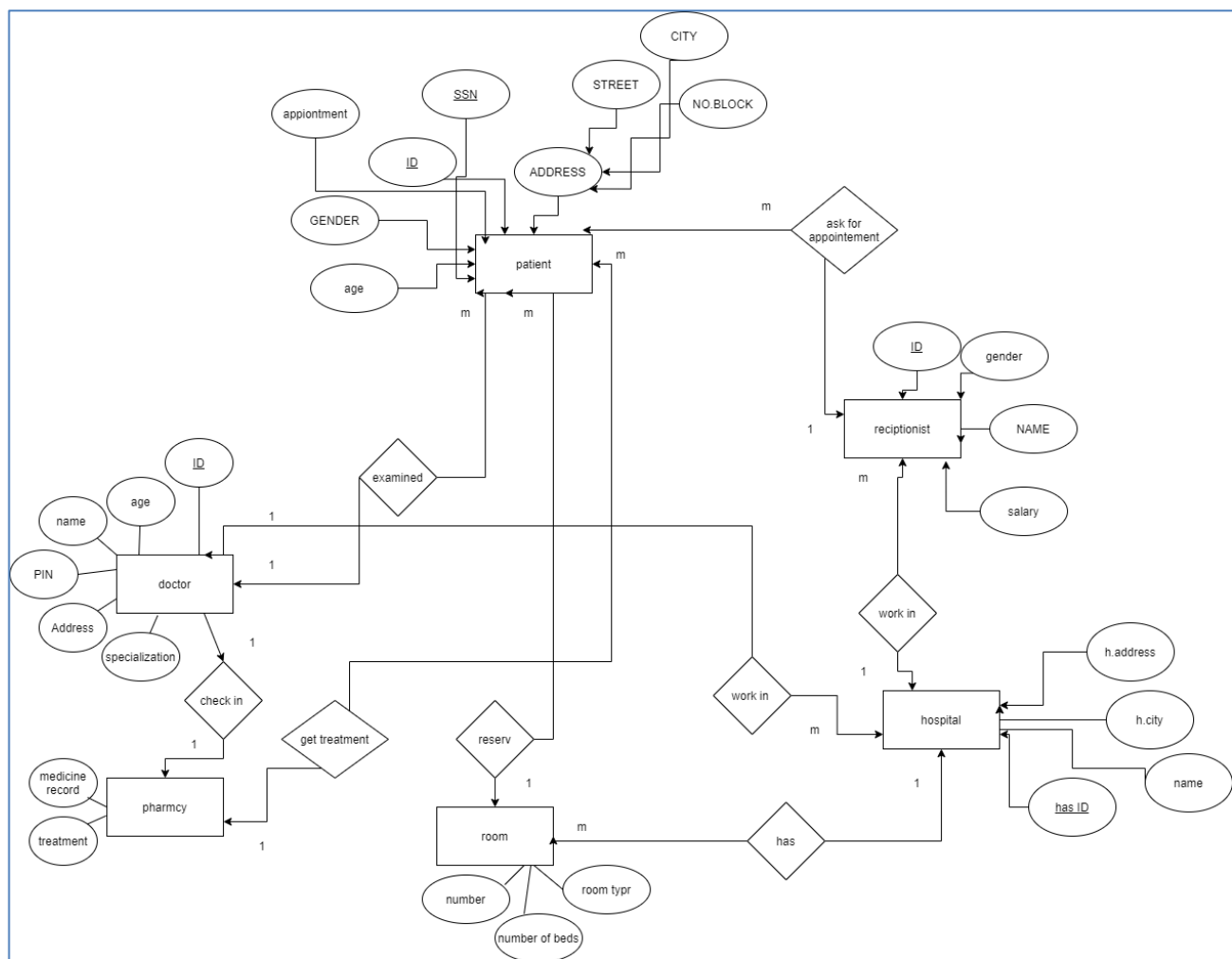
7-Activity: -



8-class: -



9-ERD: -



10-:Mapping

