

CCSW 437 – Software Design and Architecture (Fall 2022)
Final Project

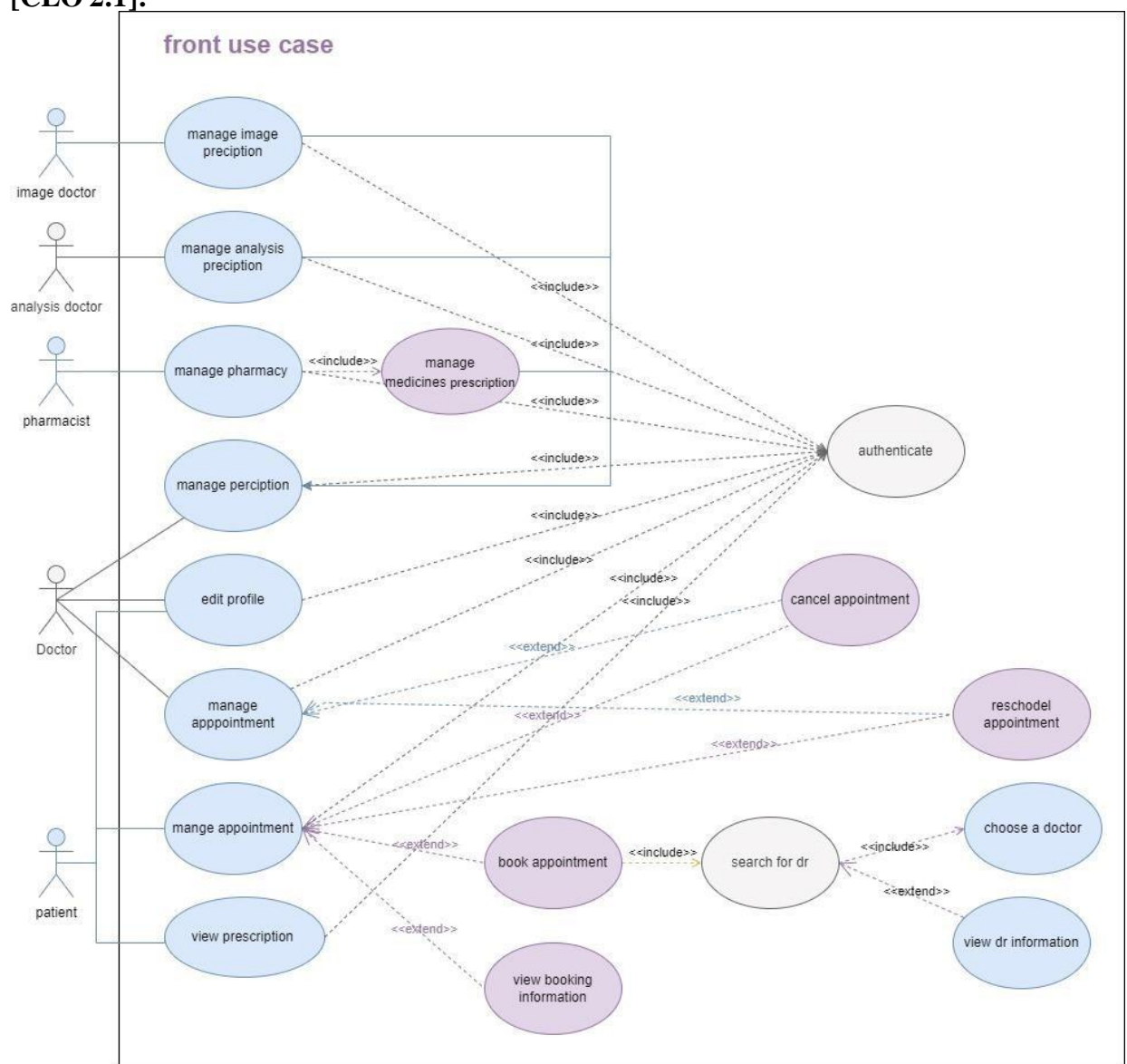
Project Definition:

The Ministry of Education wants to improve the efficiency of the management of Medical centers. The ministry will provide all the needed informations. The web application will have two parts; One for the Administrator (Back Office) and another for all the other End-Users (Front Office).

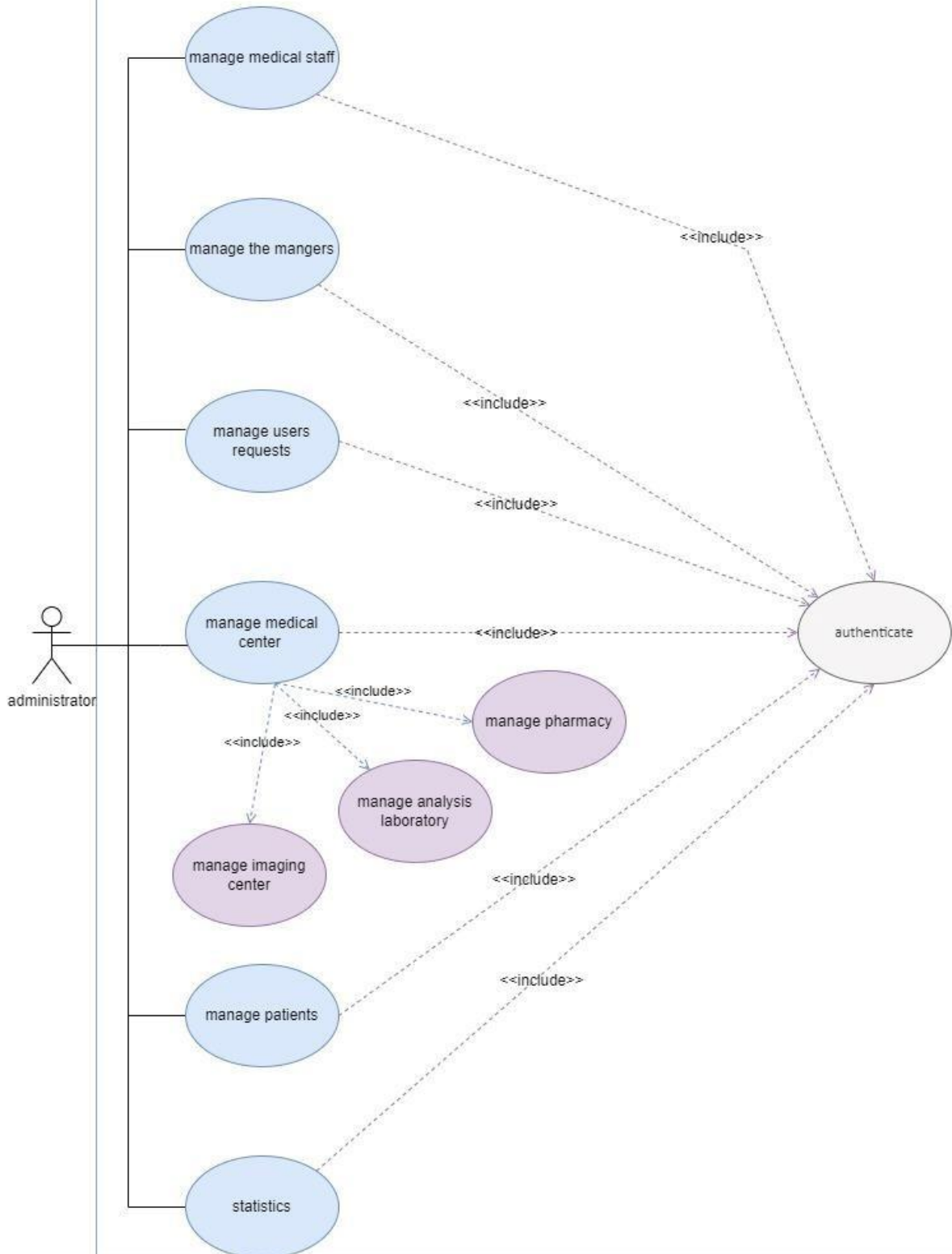
1- Propose a suitable Software Architecture for this application. [CLO 2.2]:

The best and most appropriate software structure for this application is the **multi-layer structure** because it helps and facilitates the partition of the system, especially if the system is large and complex and you need to divide it into several sections and you have several layers as our system for example UI, client, user and employee and also in terms of splitting it into front and back office For managers, patients, medical staff, etc., and you can easily modify and change

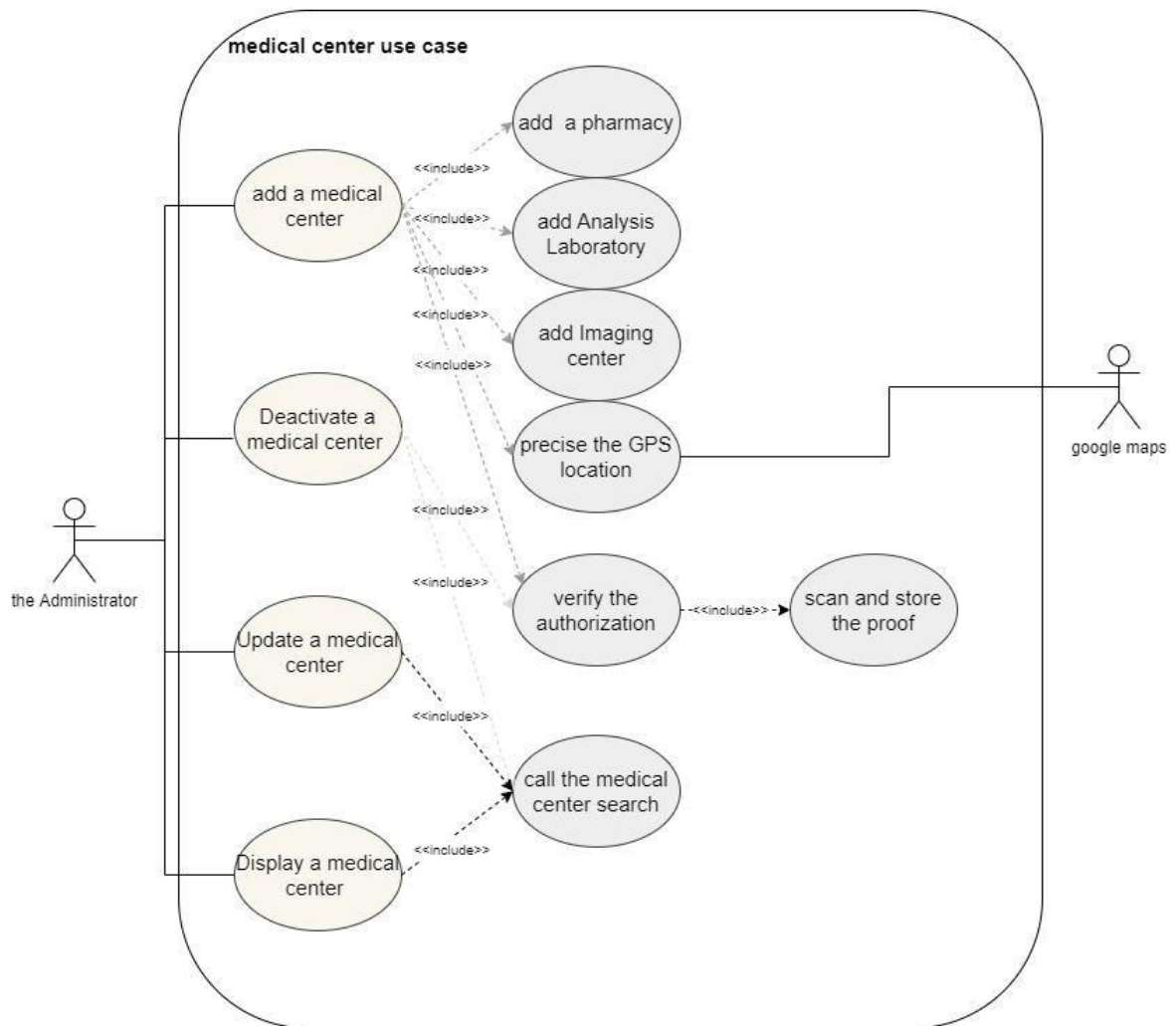
2- Design the Global use case diagrams for the Front-Office part and the Back-Office part. [CLO 2.1]:

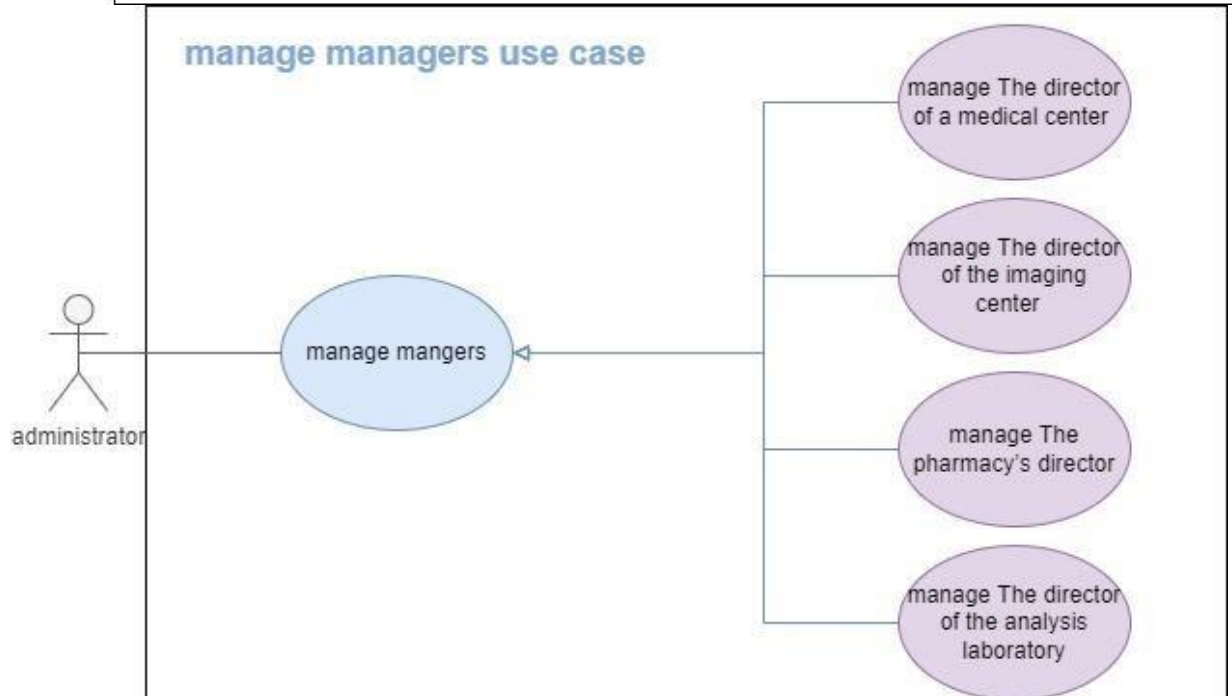
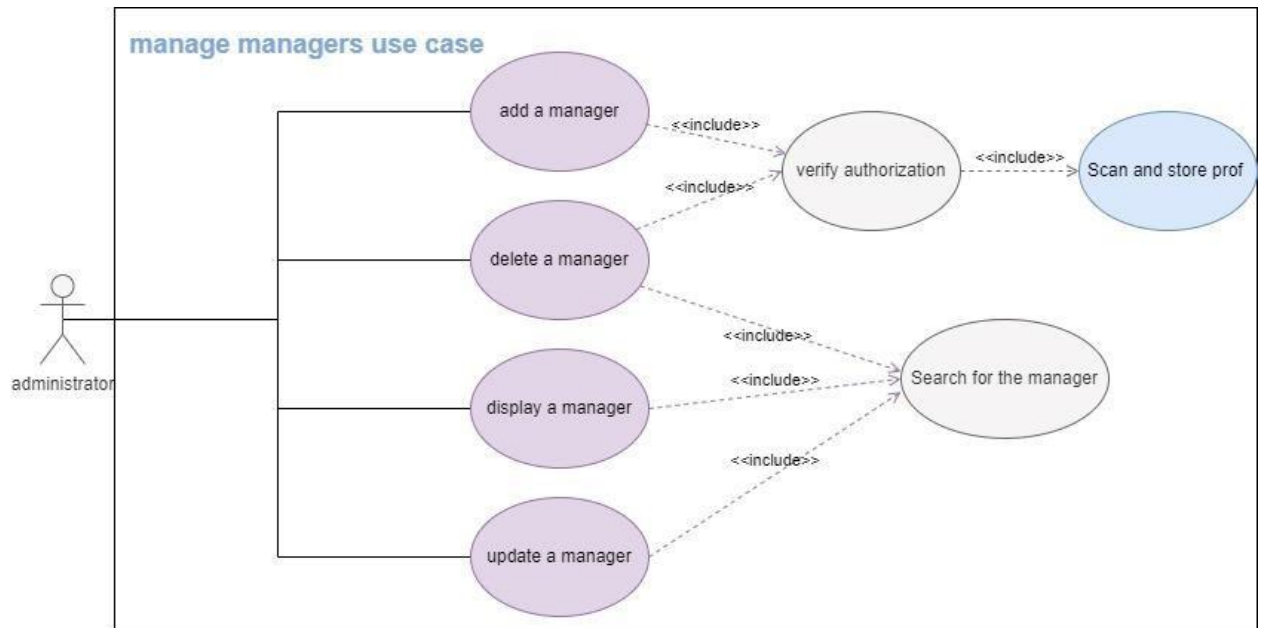


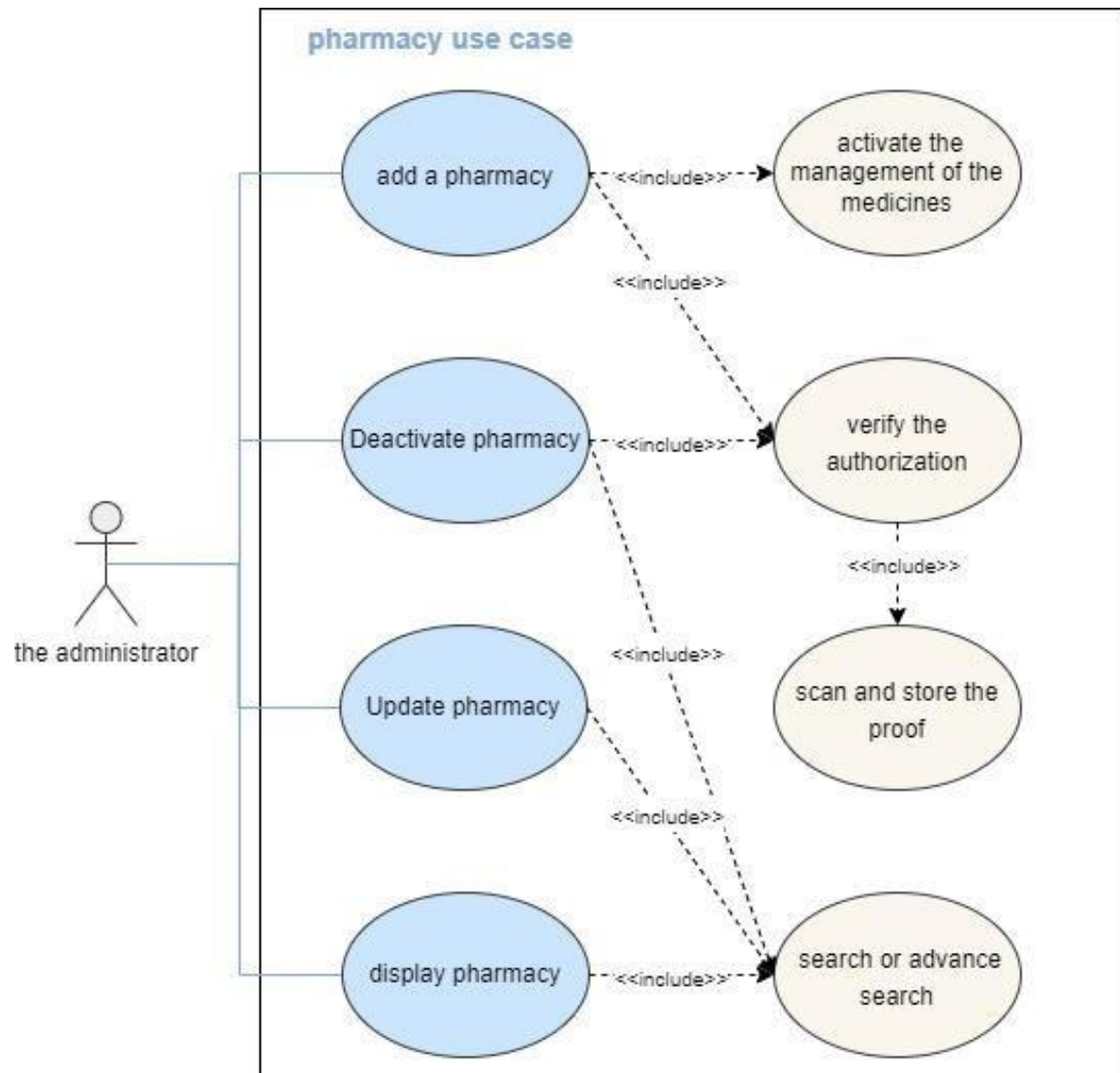
Back Office Use Case Diagrams

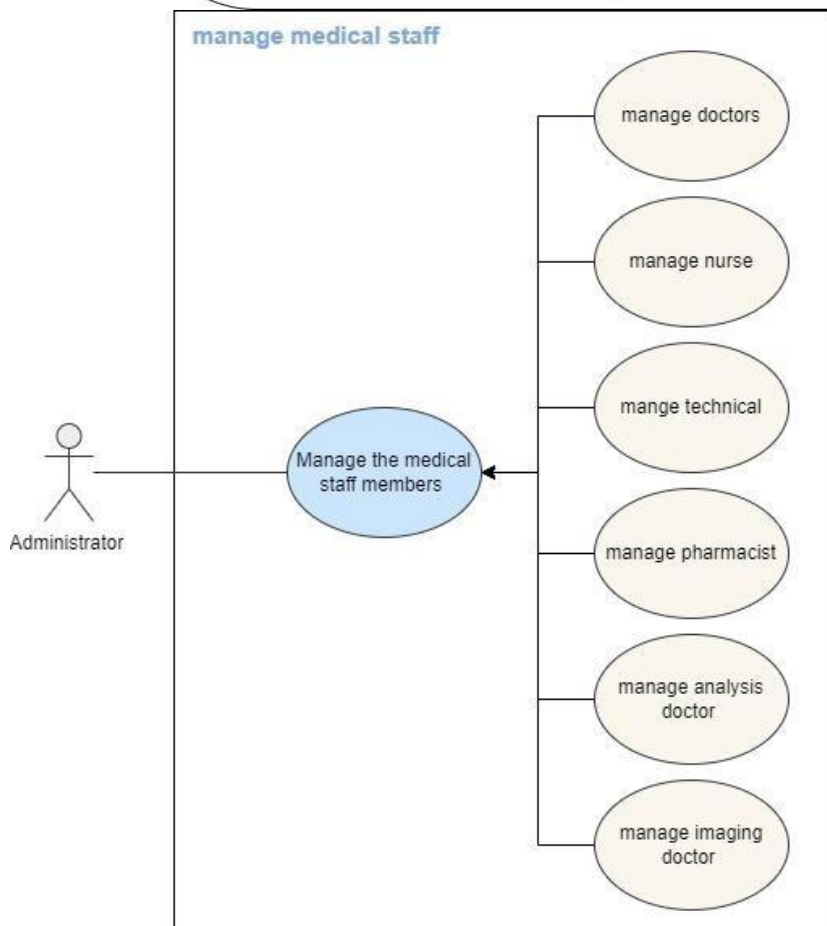
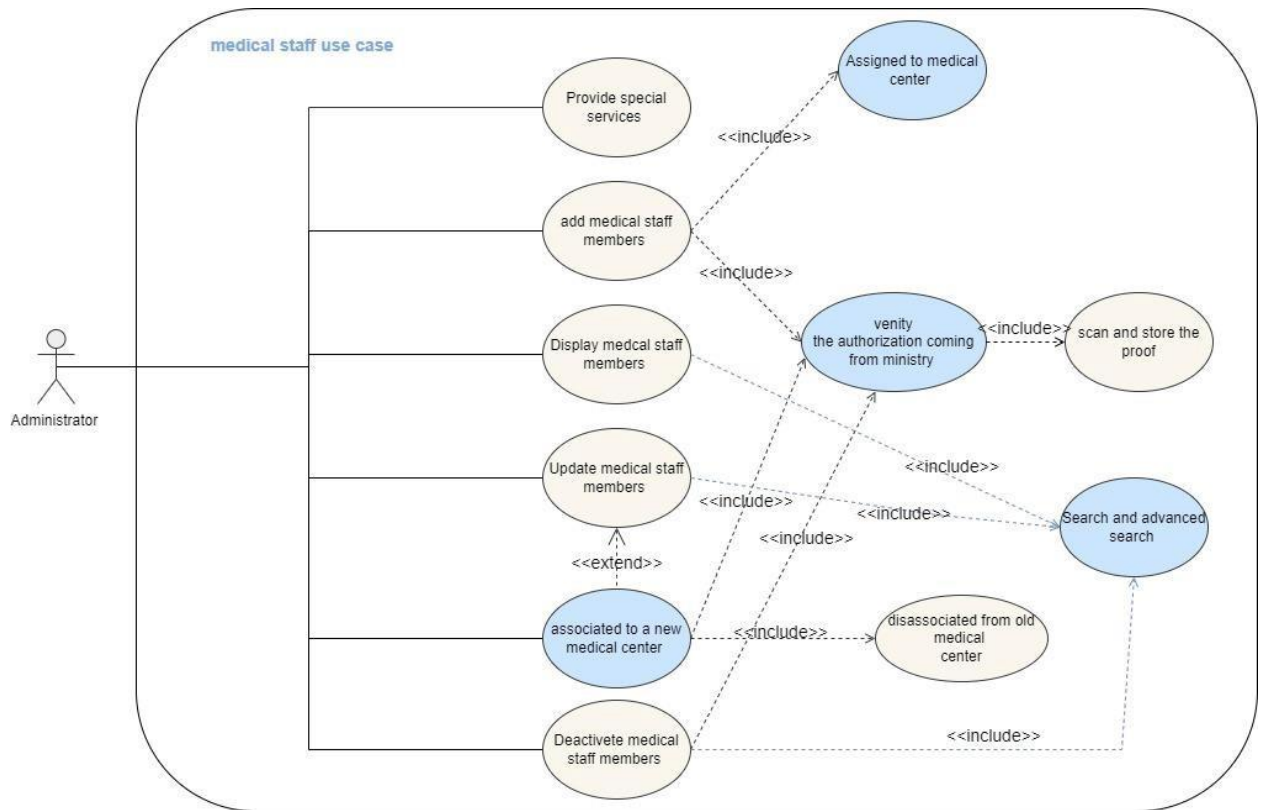


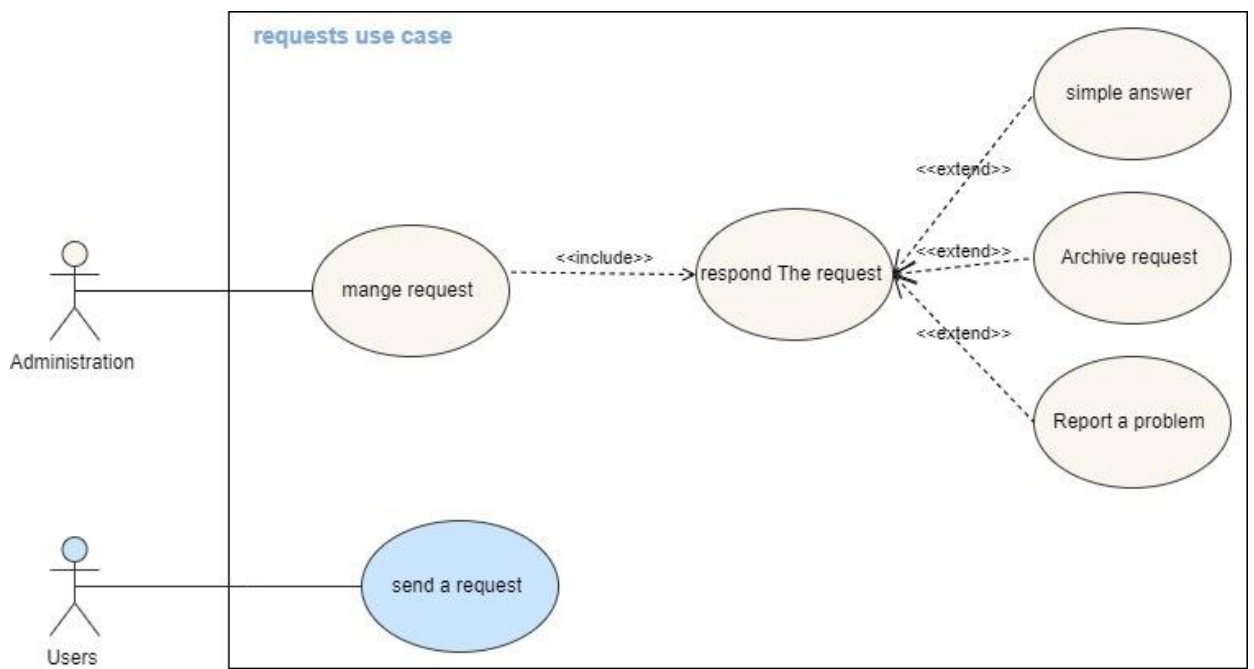
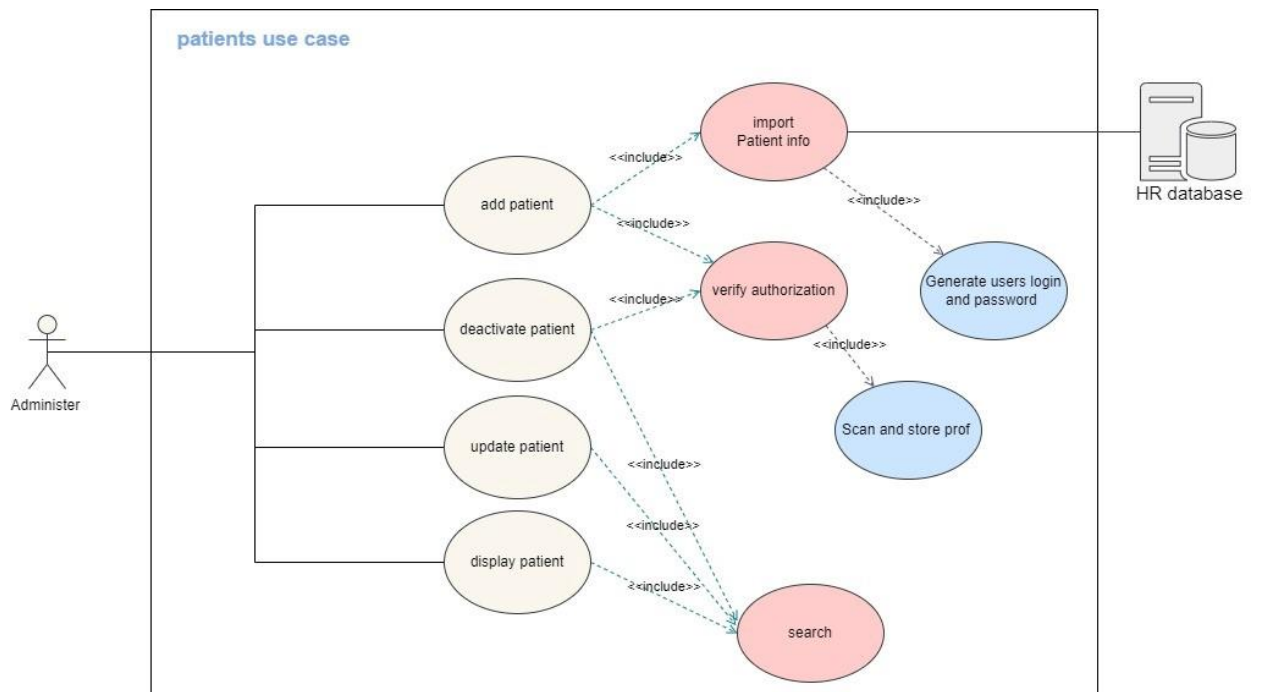
3- Design all the detailed use case diagrams of the Back-Office Part. [CLO 2.1]:



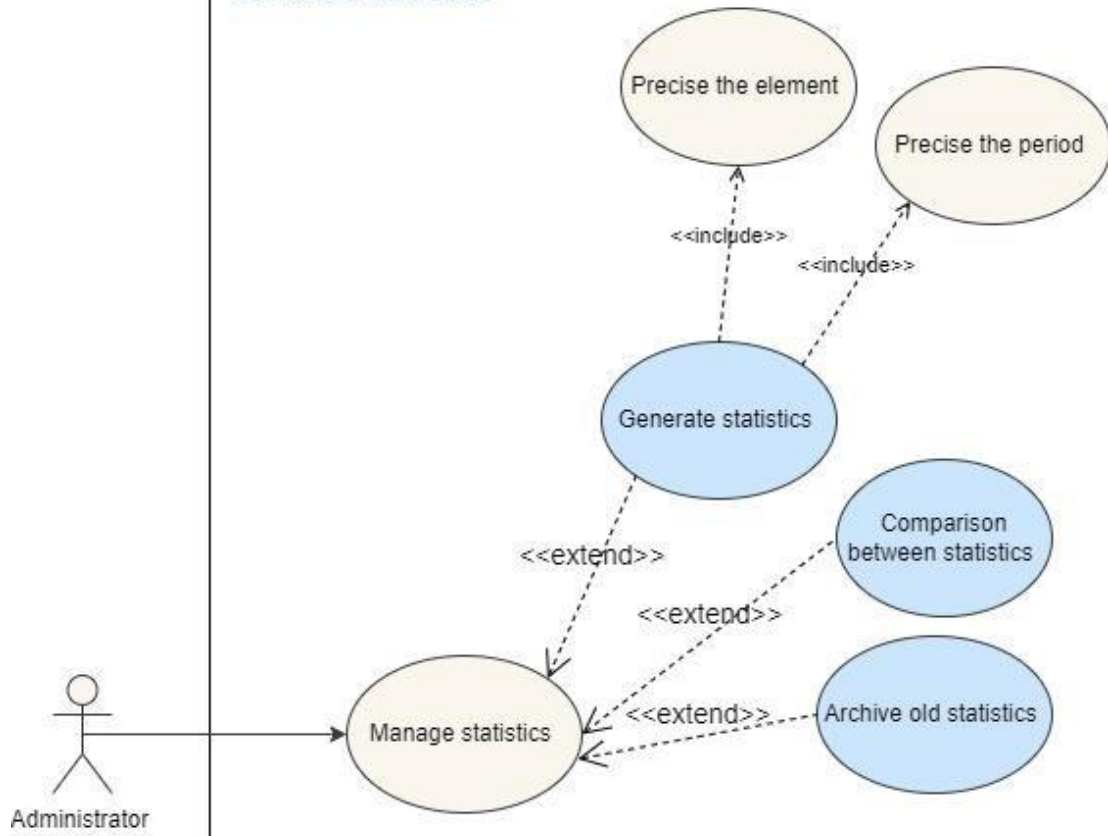




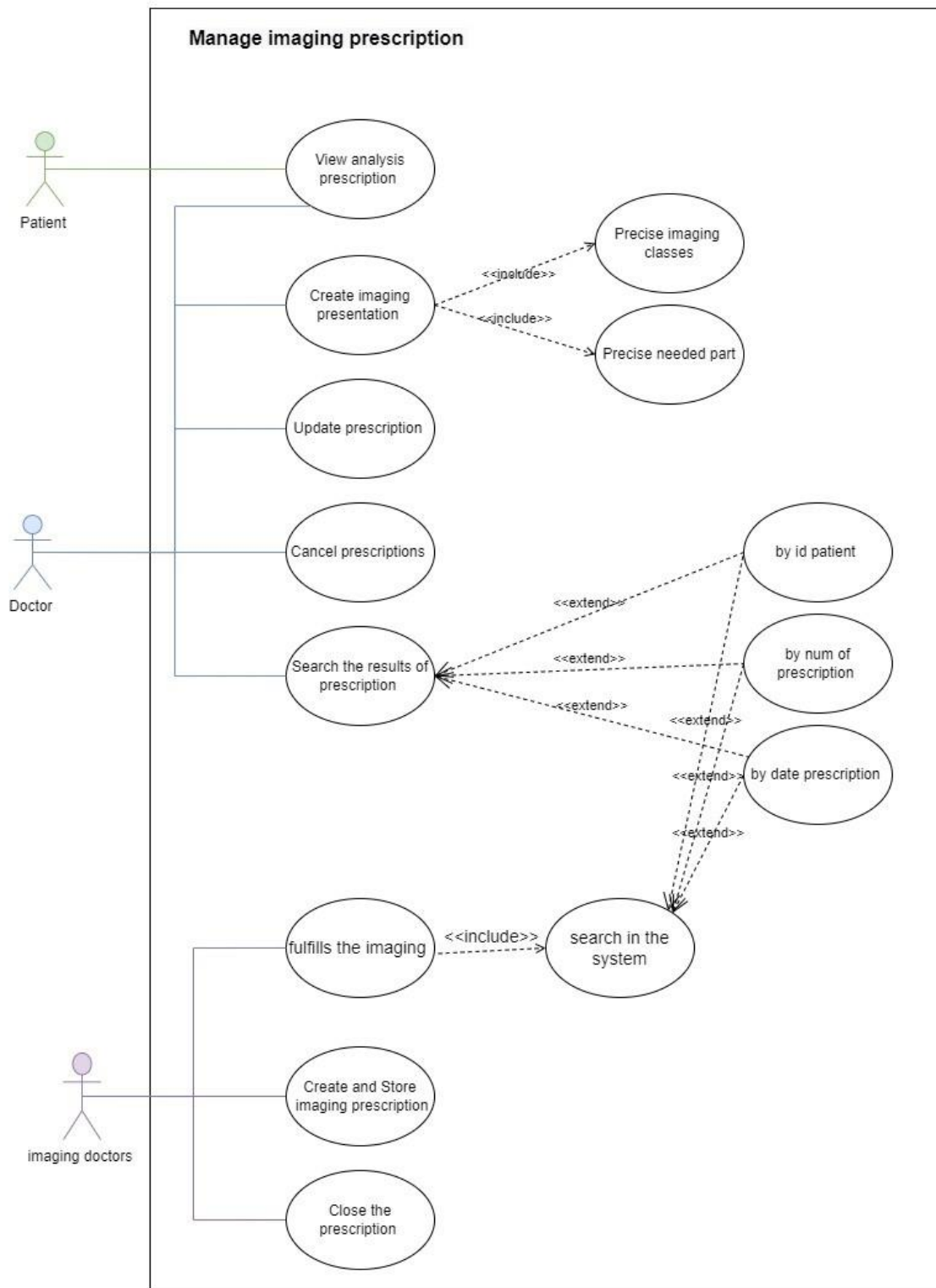


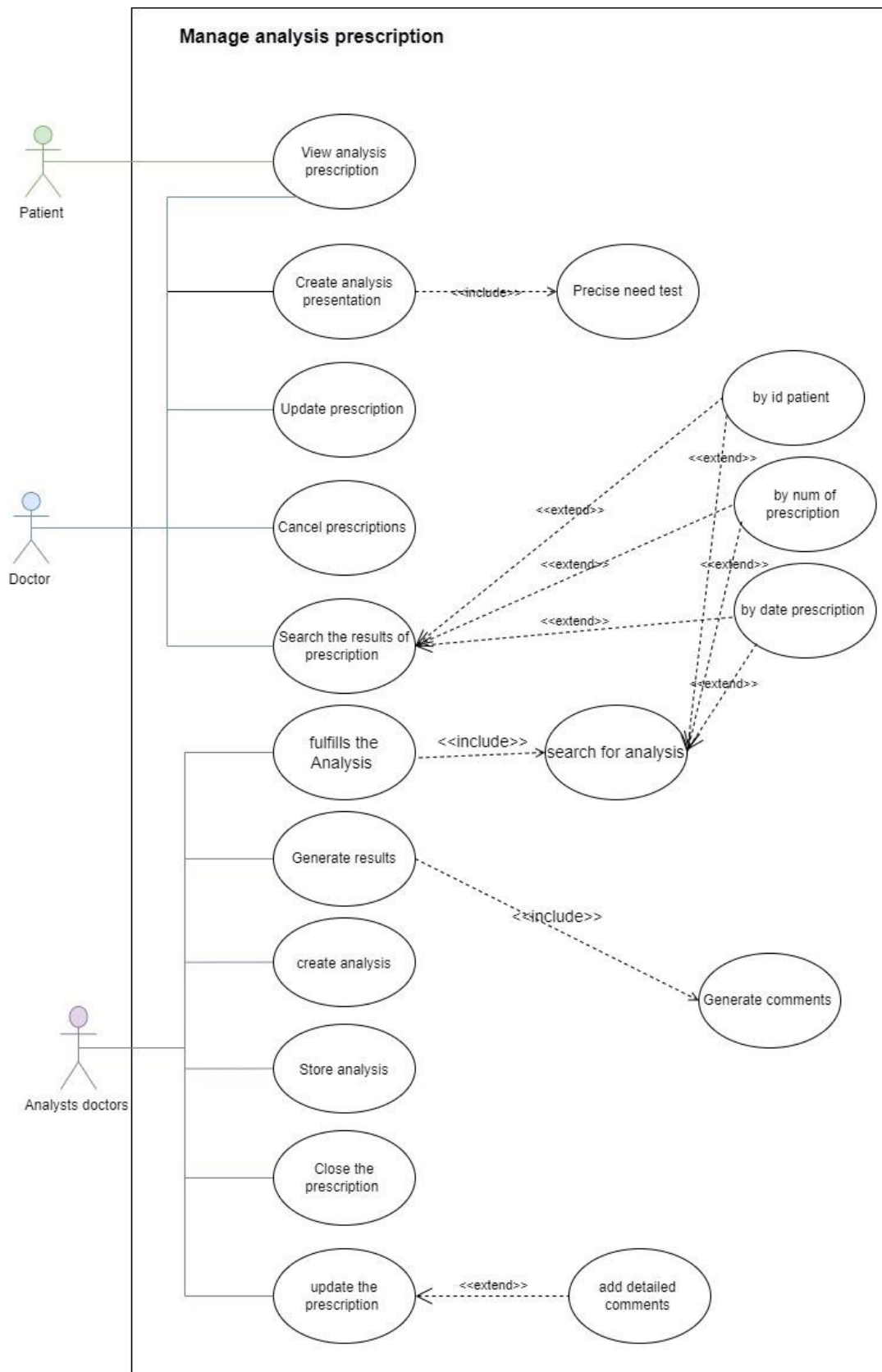


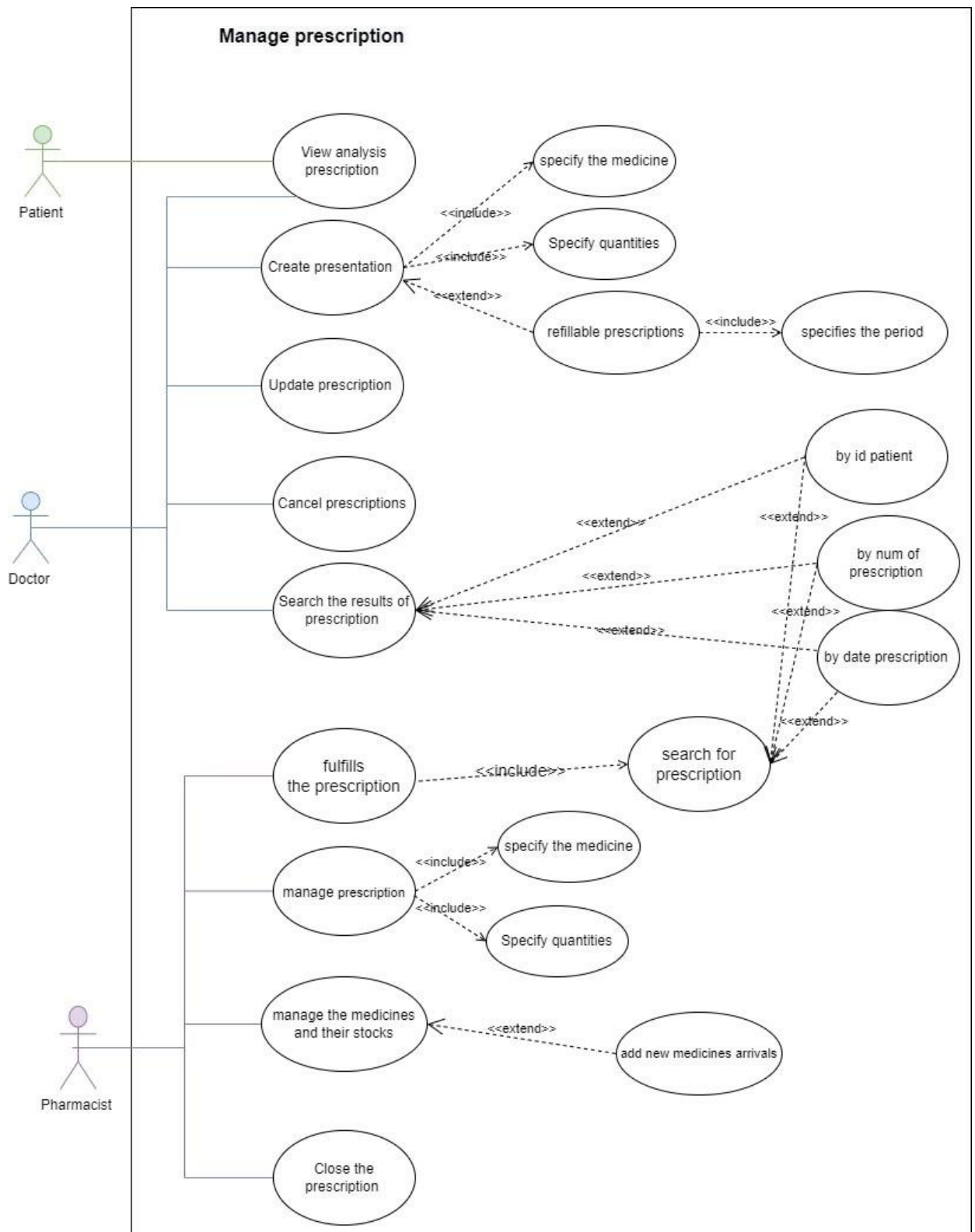
Statistics use case



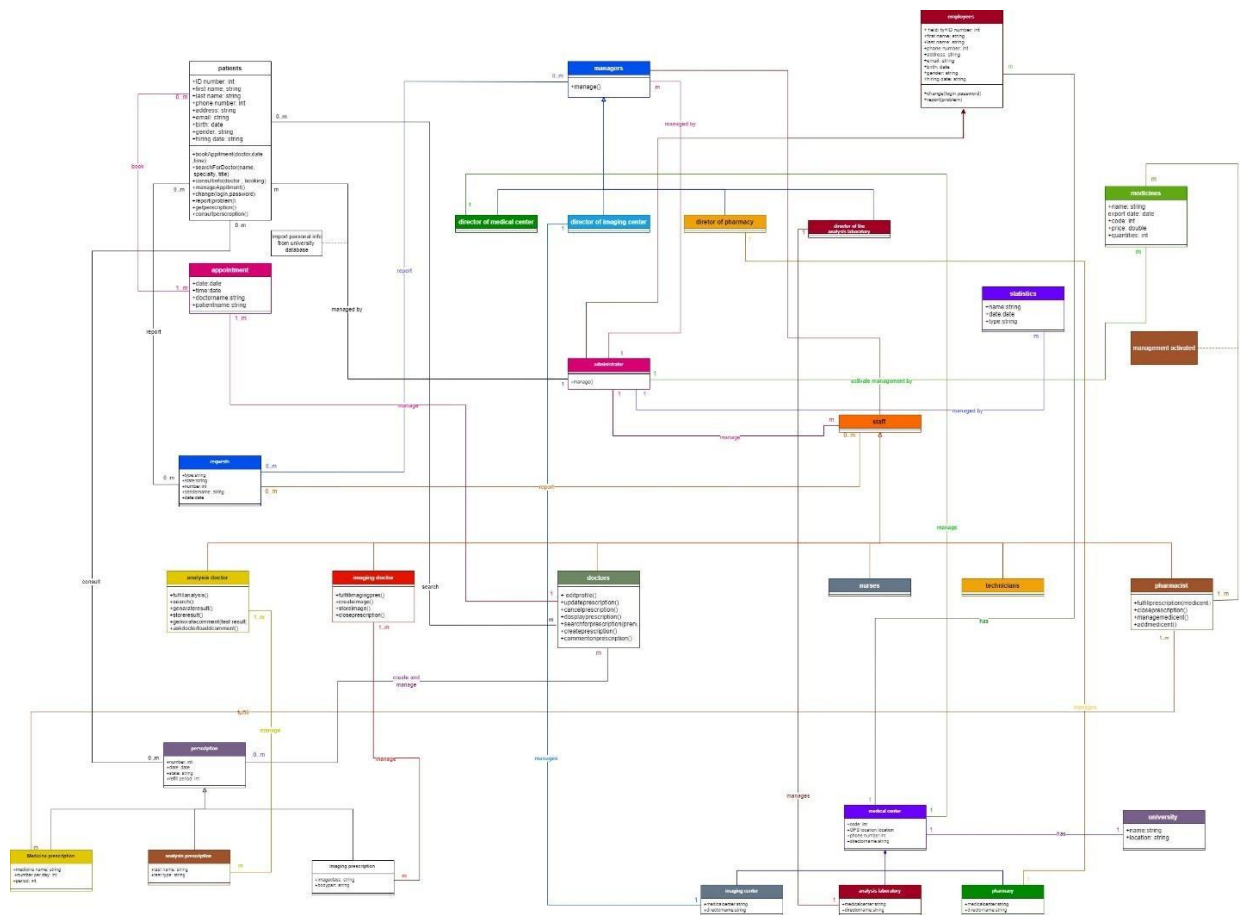
4- Design all the detailed use case diagrams of the Front-Office Part. [CLO 2.1]:



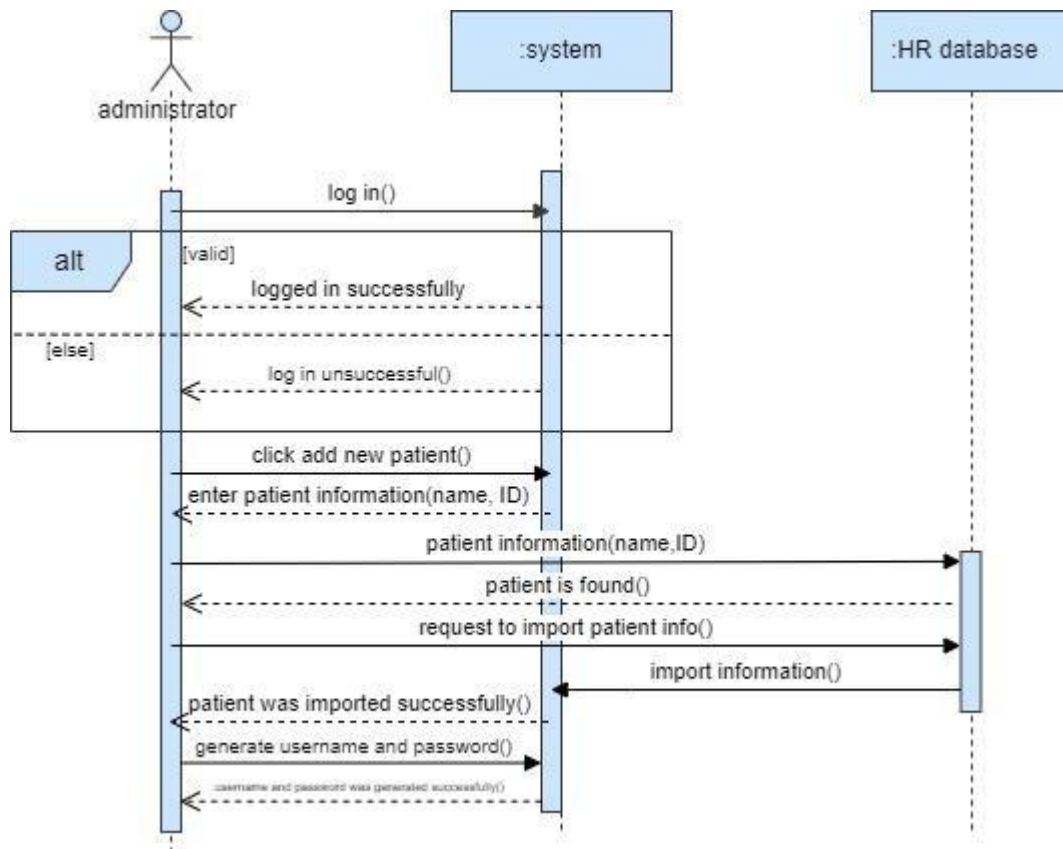


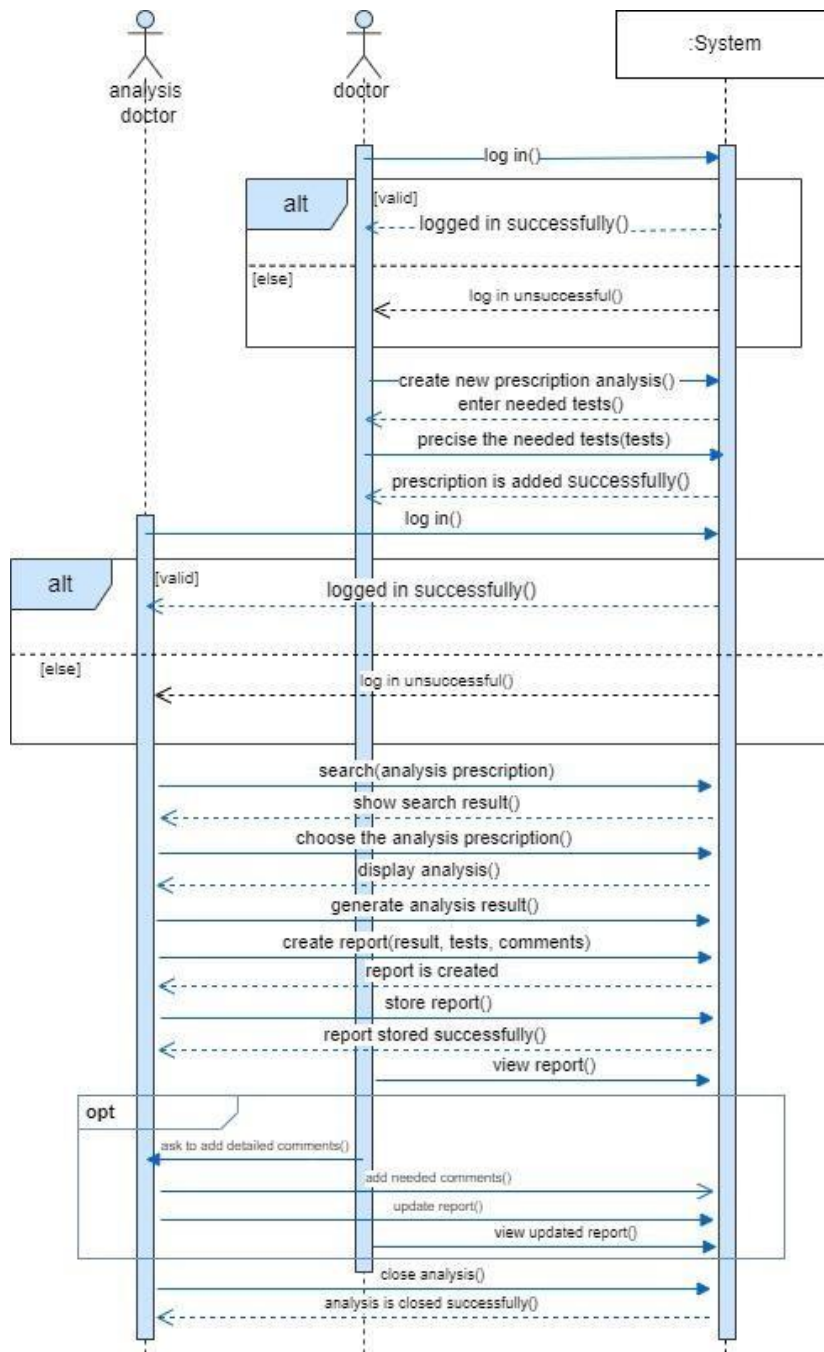


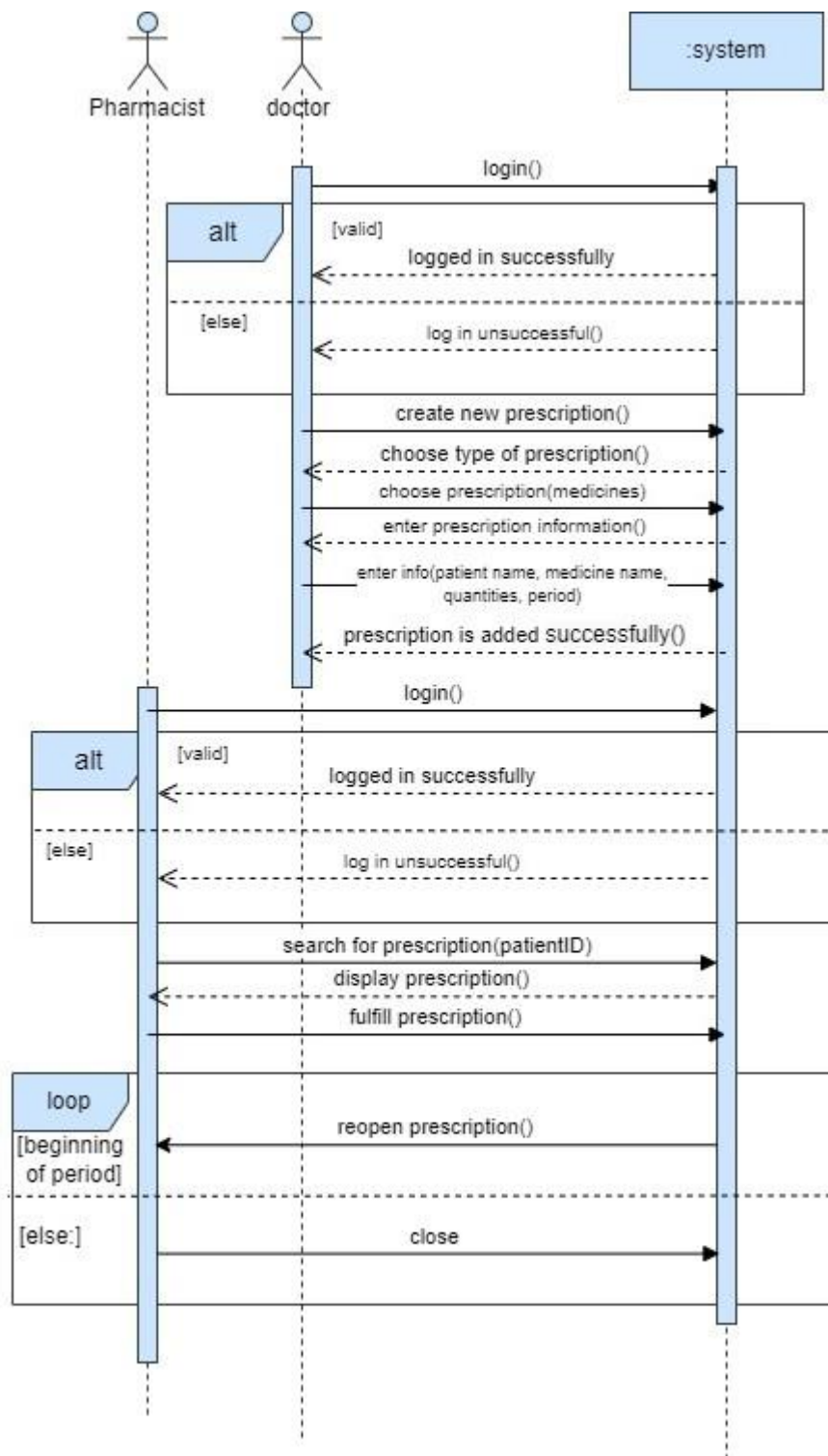
5- Design the class diagram. [CLO 2.1]:



- 6- Design the functional sequence diagrams of “Import personal informations of the patients”, “create analysis prescription” and “create refillable prescription”. [CLO 2.1]:







- 7- Design the state machine diagrams of “Analysis Report” and “refillable prescription”.
[CLO 2.1]:

