



American International University-Bangladesh (AIUB)

Department of Computer Science

Faculty of Science & Technology (FST)

Summer 2020

CSC 2210 Object Oriented Analysis and Design (OOAD)

Section:C

Project Title: “COVID-19 Test Management System”

An Object-Oriented Analysis and Design (OOAD) project submitted
By

Group Members:

1. ZIHAD,MD FAYSAL JAMIL(19-40115-1)

2. RAHMAN MOHAMMED ALVY (18-38874-3)

3. KHAN HASIBUR RAHMAN (17-33386-1)

4. TUSHTI,TAZRIAN ZAMAN(19-39433-1)

CO3: Formulate a baseline document to perform feasibility study of a proposed project idea	Total Marks	
Project Background Analysis	[5Marks]	
Project Content Knowledge	[5Marks]	
Project Feasibility Study	[5Marks]	
CO4: Design a Complex engineering problem using UML Tools and explain the system using a project report and presentation	Total Marks	
Diagram Standard	[5Marks]	
Report Organization	[5Marks]	
Presentation Delivery	[5Marks]	

Project Title:**“COVID-19 Test Management System”****Justification:**

During this pandemic of COVID-19, this management system will bring relief from this terrible situation. As this disease spreads between people through direct, indirect, or close contact with infected people. This COVID-19 test management system will indicate every affected people. So this management system is very effective during this outbreak of deadly coronavirus.

Project Background Analysis :

This project is based on current pandemic situation of COVID-19. This management ease the process of testing sample of victims because the full process is controlled by a single software.

People who are affected can easily make their account in this software. The patient can easily make their payment, get test result (corona positive/negative) through this software. In this project, the receptionist takes the central role because he collects sample collector team and provides time and address of patient. Then sample collector team goes to the patient's home on the provided date and takes sample. Then they send this sample to the lab. Lab tests the sample and gives result to the patient's account. If any patient is tested negative then they will provide a clearance certificate. But, if the patient is tested positive, the doctors will determine whether the patient shall go immediately to medical facility or take self isolation at home.

In this project the patient's specific benefits are : they can easily pay through this software and they don't have to go to hospital for test. The sample collector will come to patient's home and take sample. And patient will get his test result through this software.

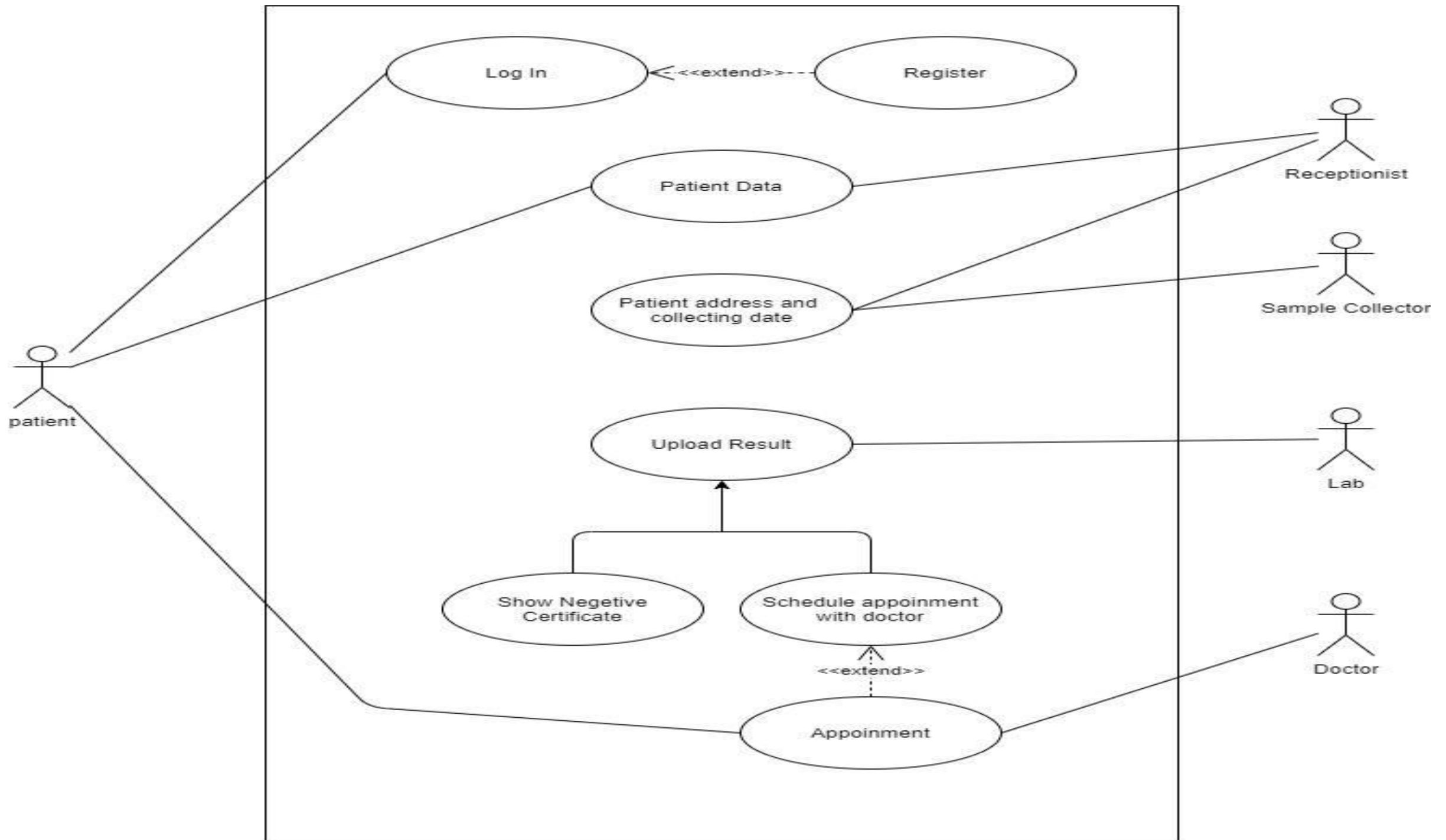
References:

[https://www.researchgate.net/publication/341781646 Corona Virus Disease COVID 19 Analysis and Design of an Alert and Real-time Tracking System](https://www.researchgate.net/publication/341781646_Corona_Virus_Disease_COVID_19_Analysis_and_Design_of_an_Alert_and_Real-time_Tracking_System)

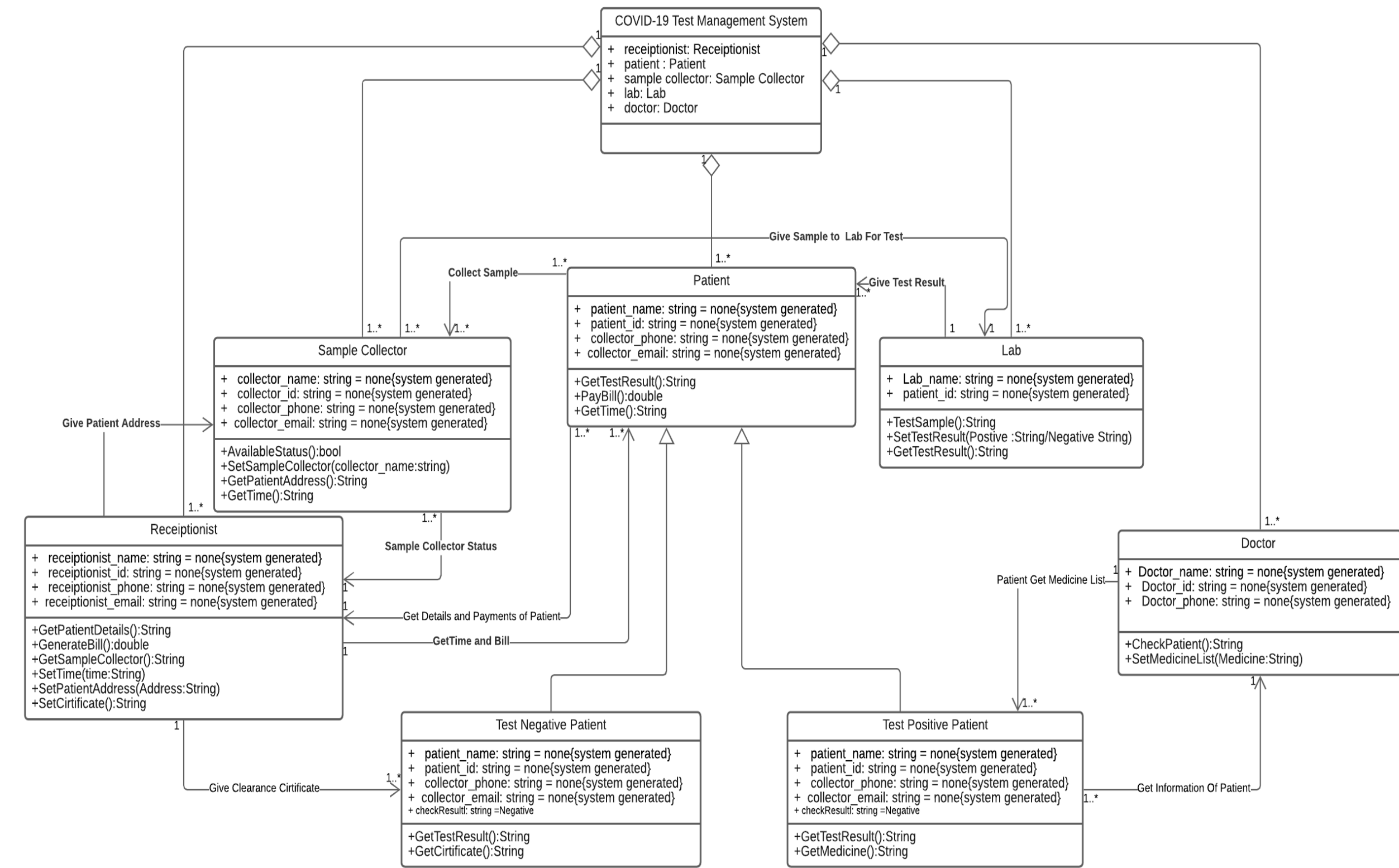
https://www.who.int/docs/default-source/searo/bangladesh/covid-19-who-bangladesh-situation-reports/who-ban-covid-19-sitrep-10.pdf?sfvrsn=c0aac0b8_4

UML DIAGRAM

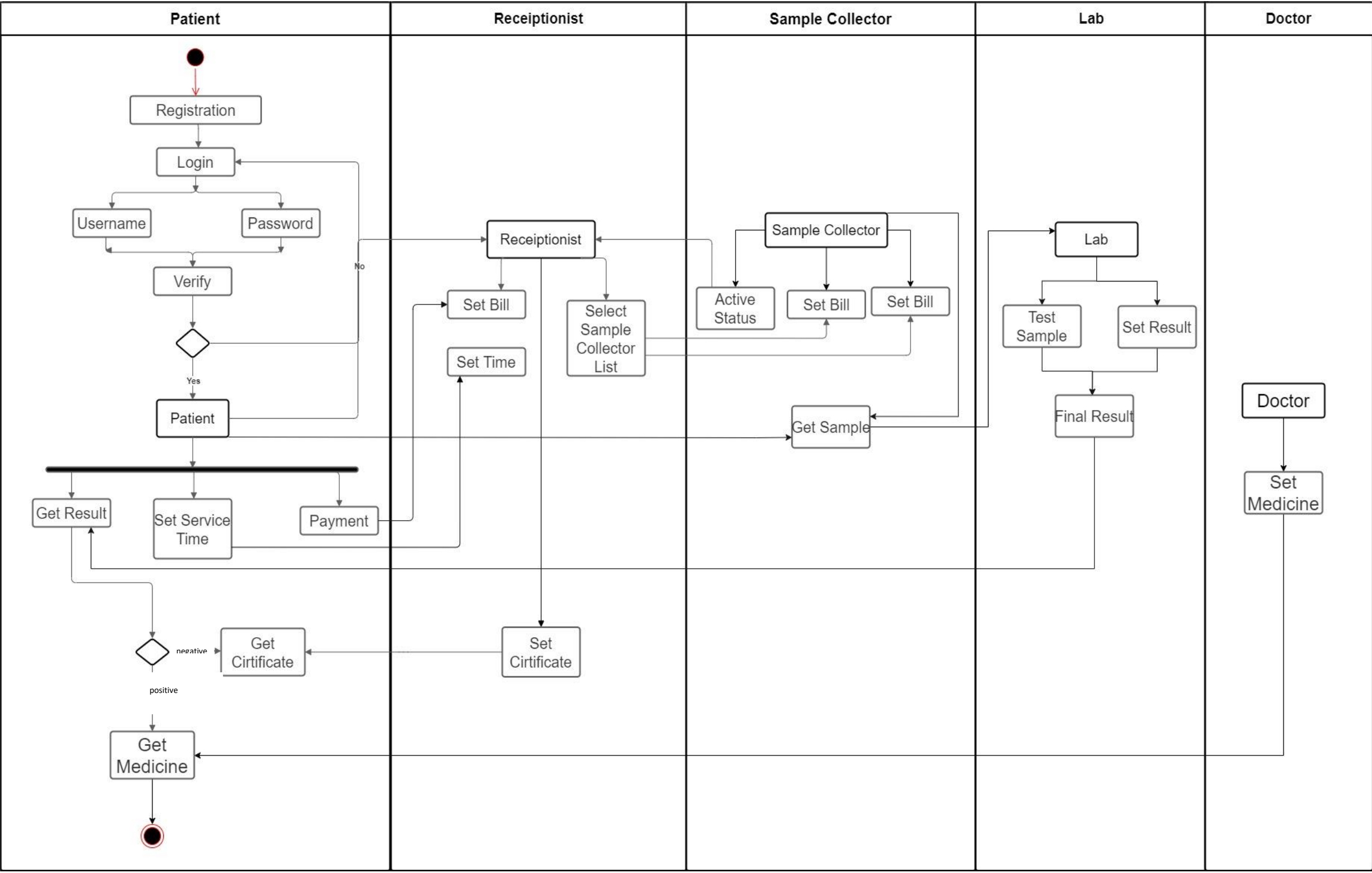
CASE: 01(Use Case) :



Case 02: (Class Diagram):



Case: 03 (Activity Diagram)



Case 04 (Sequence Diagram)

