Al Imam Mohammad Ibn Saud Islamic University
College of Computer and Information Sciences

Information Technology Department

Course Title:	IT Systems
Course Code:	IT 281
Course Instructor:	Dr. Amir Mohamed Talib, Dr. Abeer AlHarbi, and T. Mona Al Awadh
Assignment:	2
Semester:	First
Date:	**Submission on 25-11-2020**
Duration:	**1 week**
Marks:	5
Privileges:	☐ Open Book ☐ Open Notes
	☐ Calculator Permitted ☐ Laptop Permitted

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Section No.:	374

Instructions:

1. Answer **all** questions.
2. Assignment submitted in due date will NOT be accepted in any case.
3. All types of plagiarism are strictly prohibited.

Official Use Only		
Question	Student Marks	Question Marks
1		3
2		2
Total		5

Problem Statement: <u>Healthcare Sales Management System</u>

<u>Description:</u> Advance Healthcare is a medicine purchase and sale company which purchases medicine from suppliers and sells it to customers. Advance Healthcare wants to develop an online system which will facilitate to manage the routine tasks of medicine sales and will convert to manual working in a computerized system. The system is meant to manage almost every aspect of the medicine sale system such as maintaining the stock record of the medicine, suppliers/companies accounts, purchase record, customer record, sales invoice generation, employees' record etc.

This system will maintain all the sales of medicines to customer and purchase from supplier. The medicine stock will be managed along with their batch number, expiry date, rate and quantity. When the medicine is purchased, and record is entered, the stack record will be updated immediately.

The system will also handle the accounts including payments to suppliers and receiving from customer. The proper ledgers of every account will be maintained. The system will also help in maintain the employees' record that includes storing their name and other particulars along with their salary package.

The system will generate many sophisticated reports including stock reports. ledger prints and rate lists. The system will not generate any advanced accounting reports as trial balance, balance sheet, Operating Expense Report and worksheets.

The system should be user friendly, technology independent and platform independent. The system service should have availability most of the time in the day. It should be able to complete its on-going operations in spite of any error or problem within defined response time.
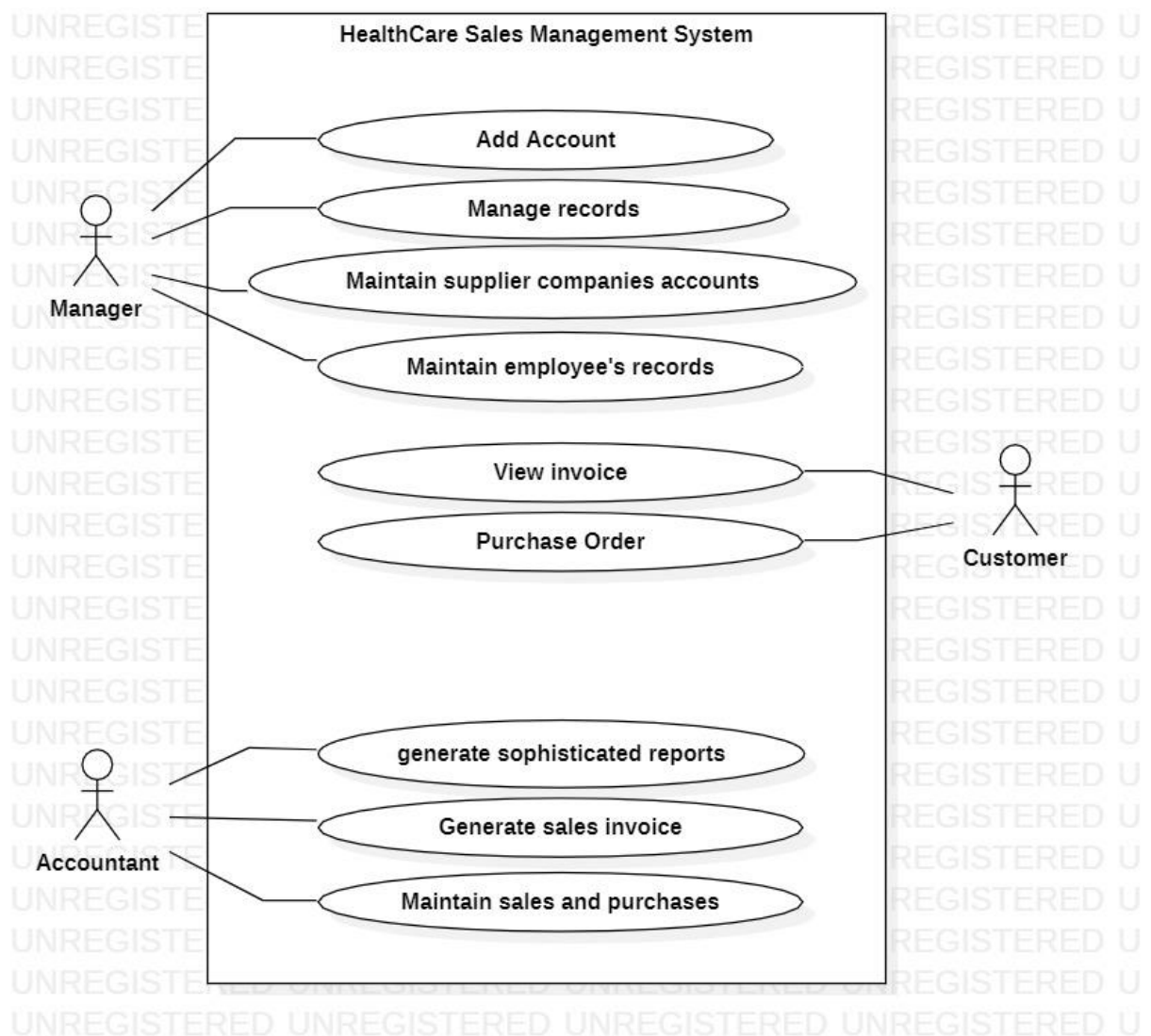
Now considering the above problem description, you are required to list down:

Question 1: Draw a use case diagram for HealthCare Sales Management System by keeping in mind the responsibilities of Manager and Accountant identified in assignment no. 1.
[0.25 mark for each correct actor]
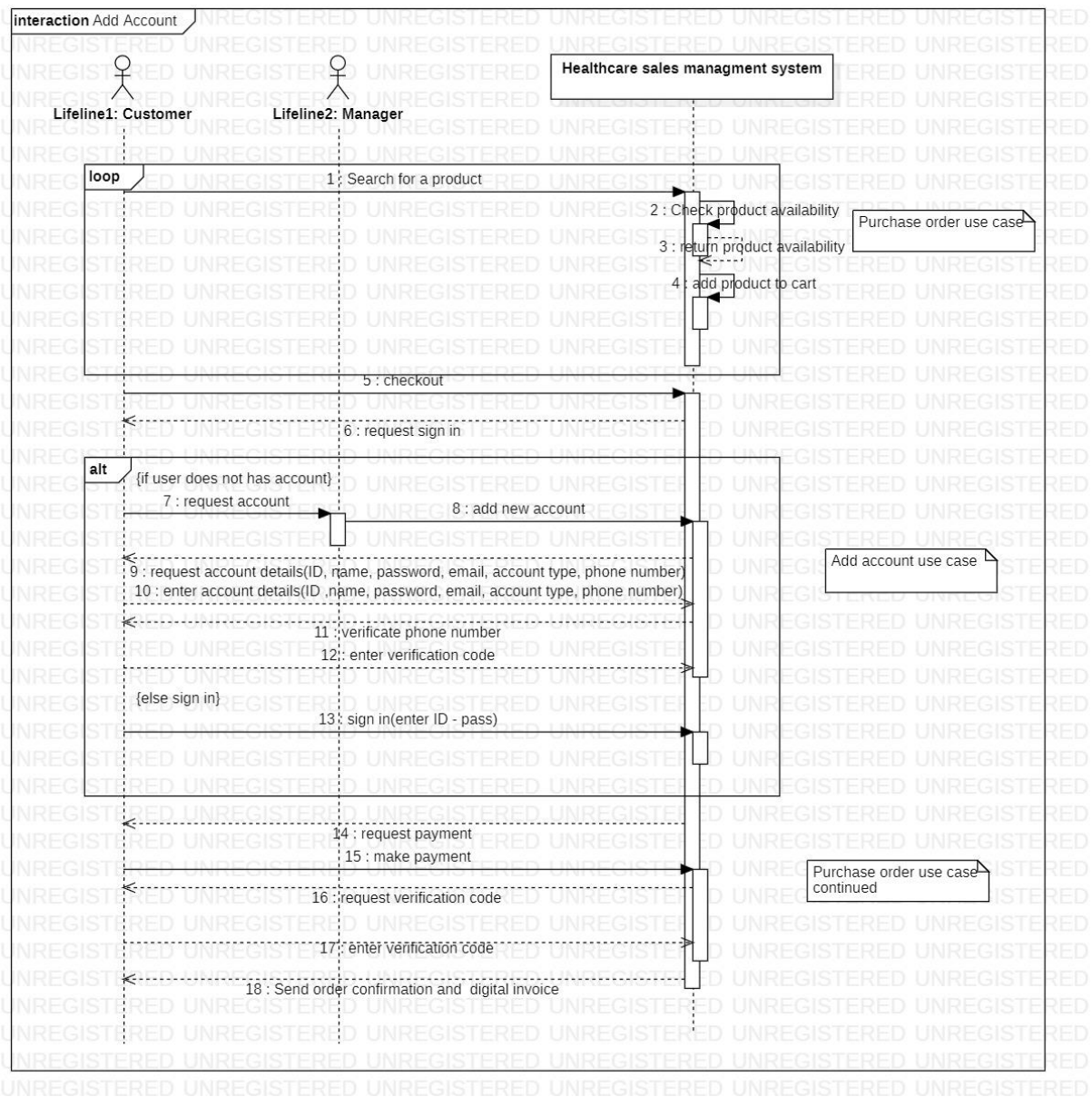[0.25 mark for each three correct use cases for each actor]

HealthCare Sales Management System

- Add Account
- Manage records
- Maintain supplier companies accounts
- Maintain employee's records

Manager

- View invoice
- Purchase Order

Customer

- generate sophisticated reports
- Generate sales invoice
- Maintain sales and purchases

Accountant

Question 2: You are required to draw Sequence Diagrams for the following two Use Cases:

1) Add Account
HINT: Using this use case, the manager will be able to add new account into the system.
[1 mark]

2) Purchase Order (medicine)
HINT: This use case will allow the user to purchase order for an item (medicine) in the inventory. [1 mark]

Good Luck.