

**MACHAKOS UNIVERSITY**

**DEPARTMENT OF CIT**

**INFORMATION TECHNOLOGY**

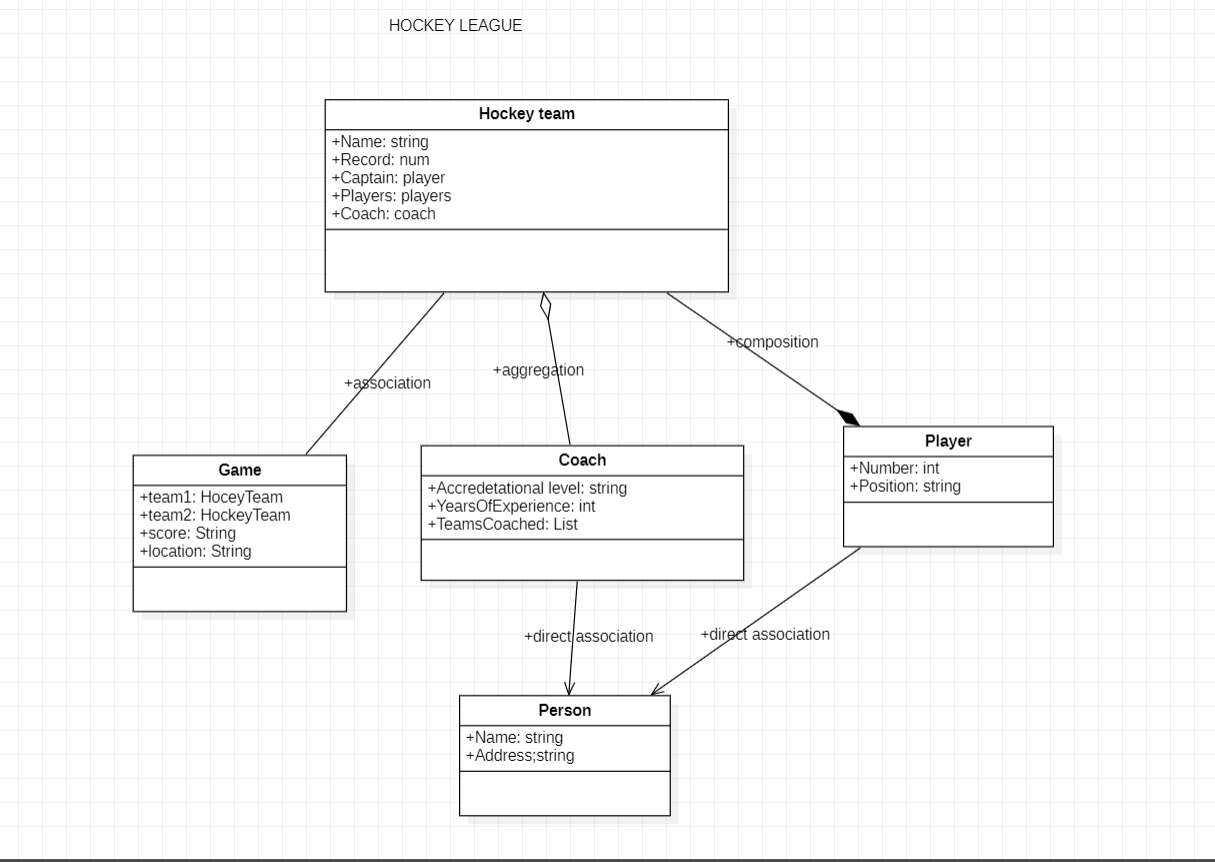
**UNIT: UNIFIED MODELING LANGUAGE**

**NAME: Maash Daud**

**REG No: J77-1591-2022**

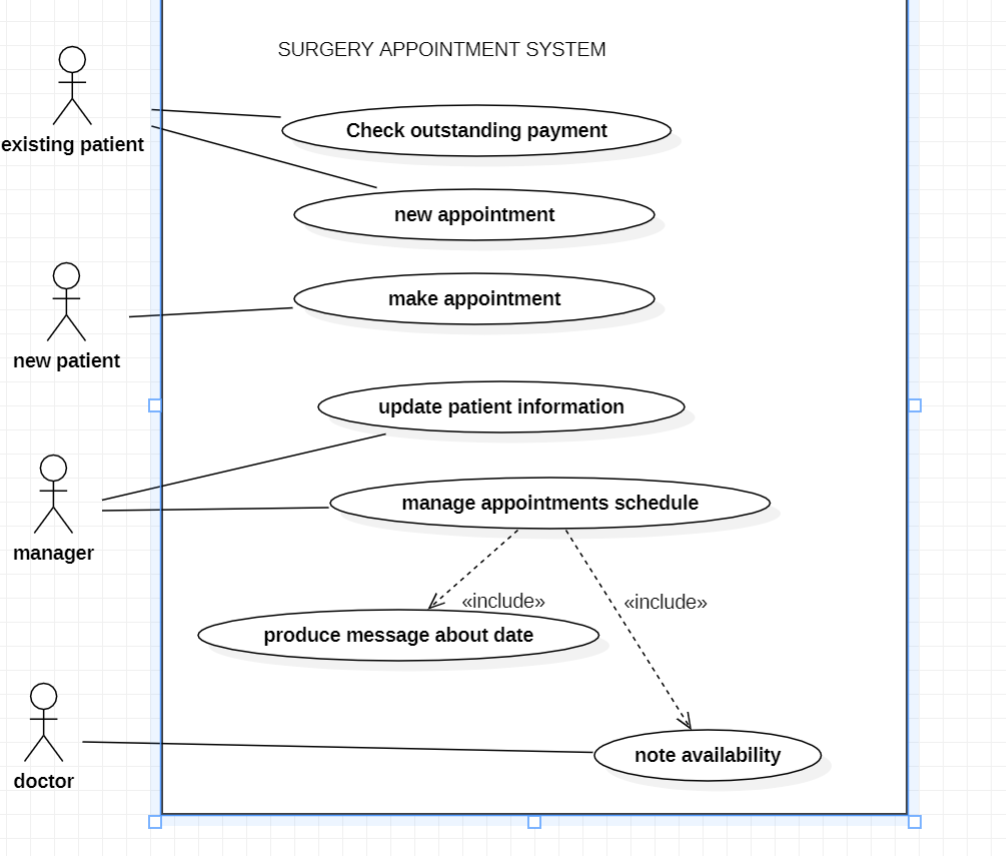
**CAT:2**

**Question 1**



**QUESTION TWO**

**a)**



2b)

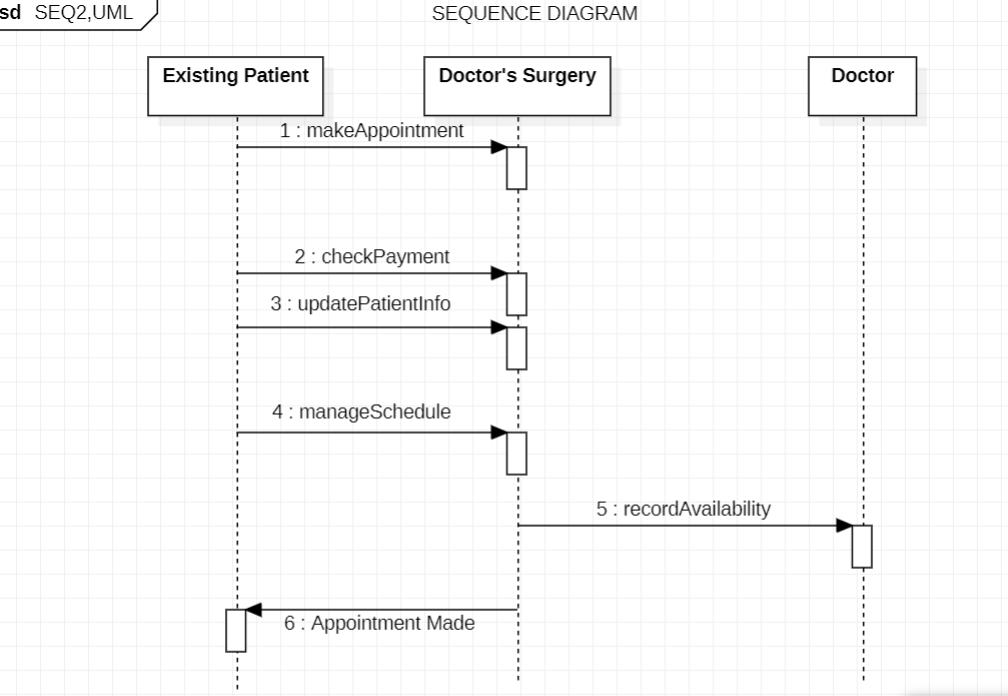
Actor refers to is an internal / external user or external system with which a system being modeled interacts with

for example we have patient doctor and manager as our actors above

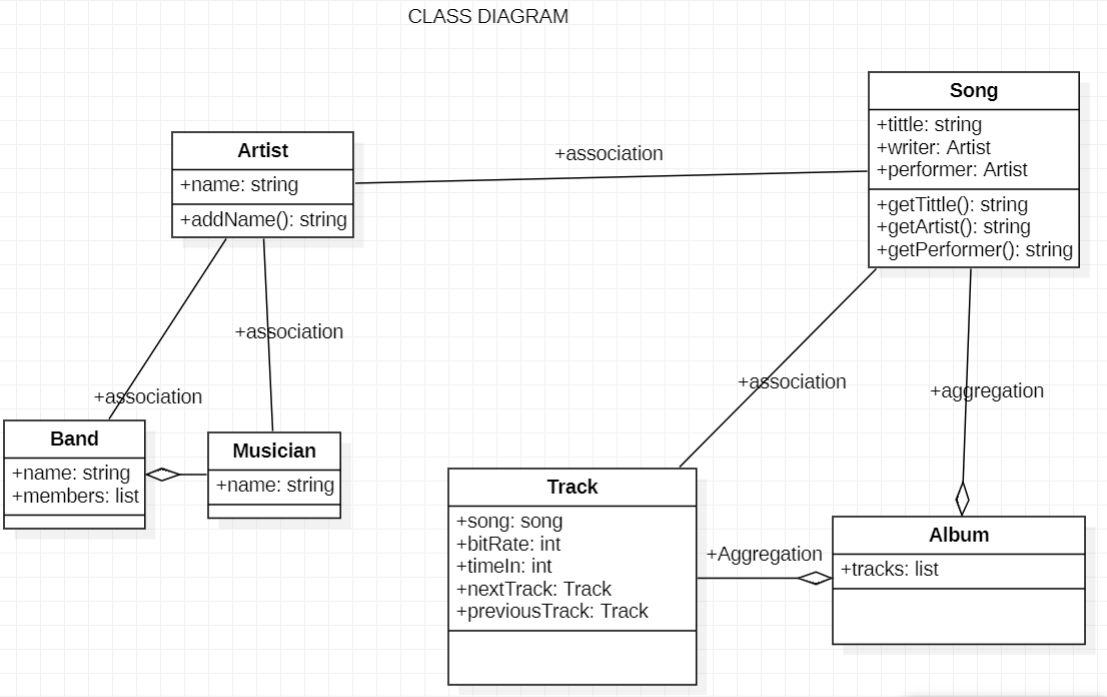
include is a relationship that adds additional functionality that are not specified in the base use case. eg record availability and producing schedule information .

Exclude is a relationship is used to include optional behavior from an extending use case in an extended use case

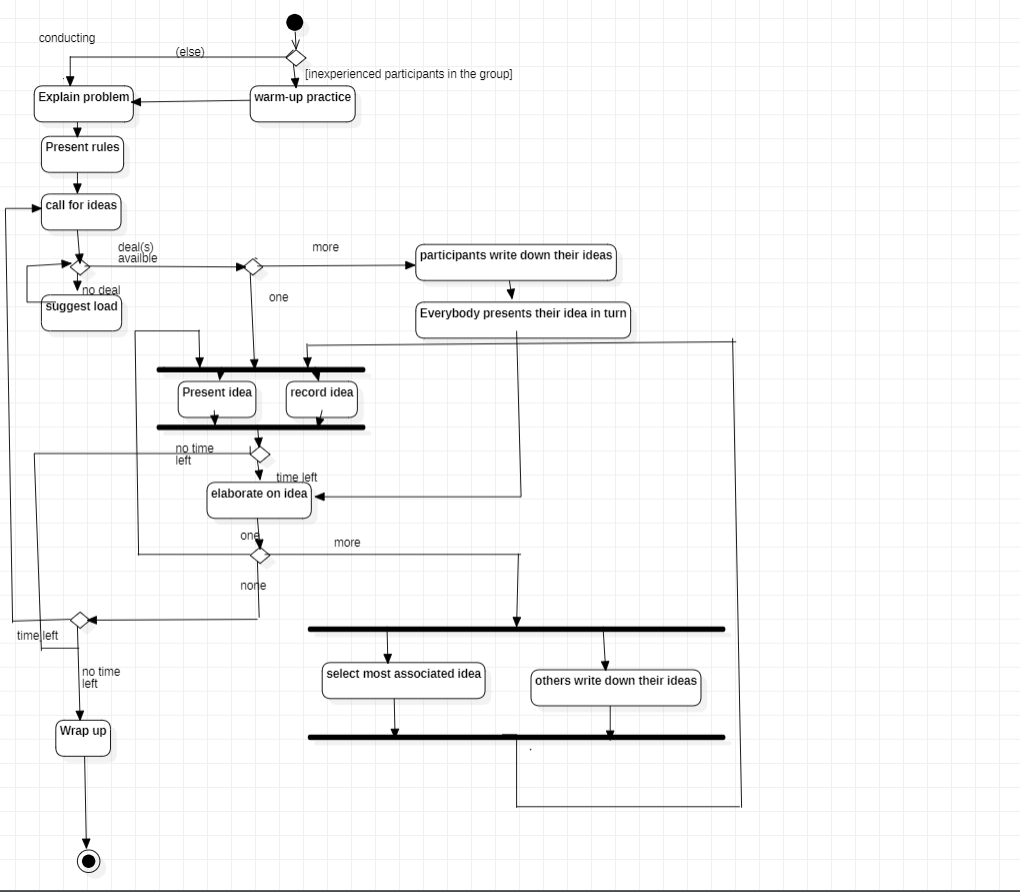
2c)



**QUESTION 3**

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**QUESTION FOUR**

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