Homework #1 - Software Requirements and Specifications
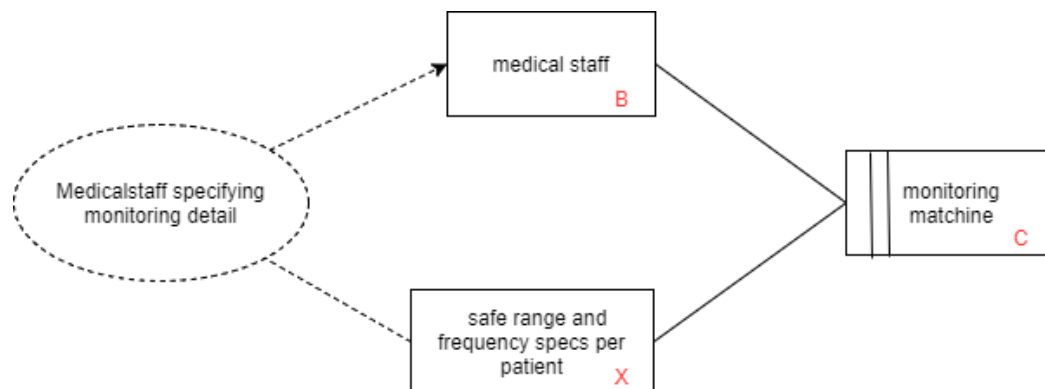
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1. Write the problem statement for the sub-problem

    Medical staff specifying monitoring detail

2. Draw problem diagram (context diagram + required behavior requirement)

C:Causal domain
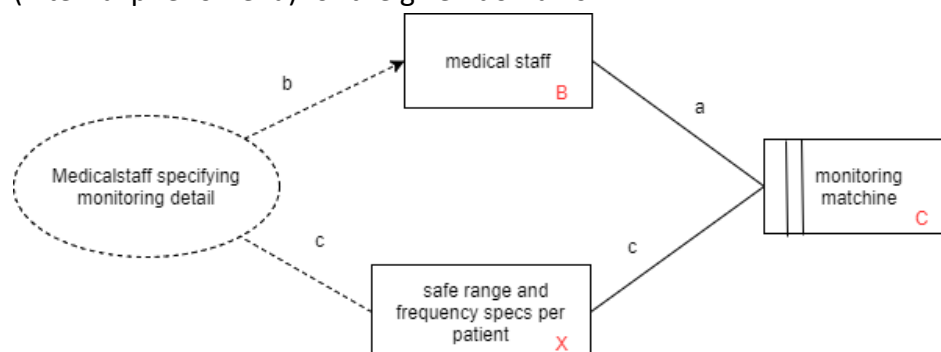
B:Biddle domain

X:Lexical domain

The diagram is not fit with required behavior diagram. The required behavior diagram is look like below:

3. Label all relevant phenomena including shared phenomena and domain properties (internal phenomena) for the given domains.
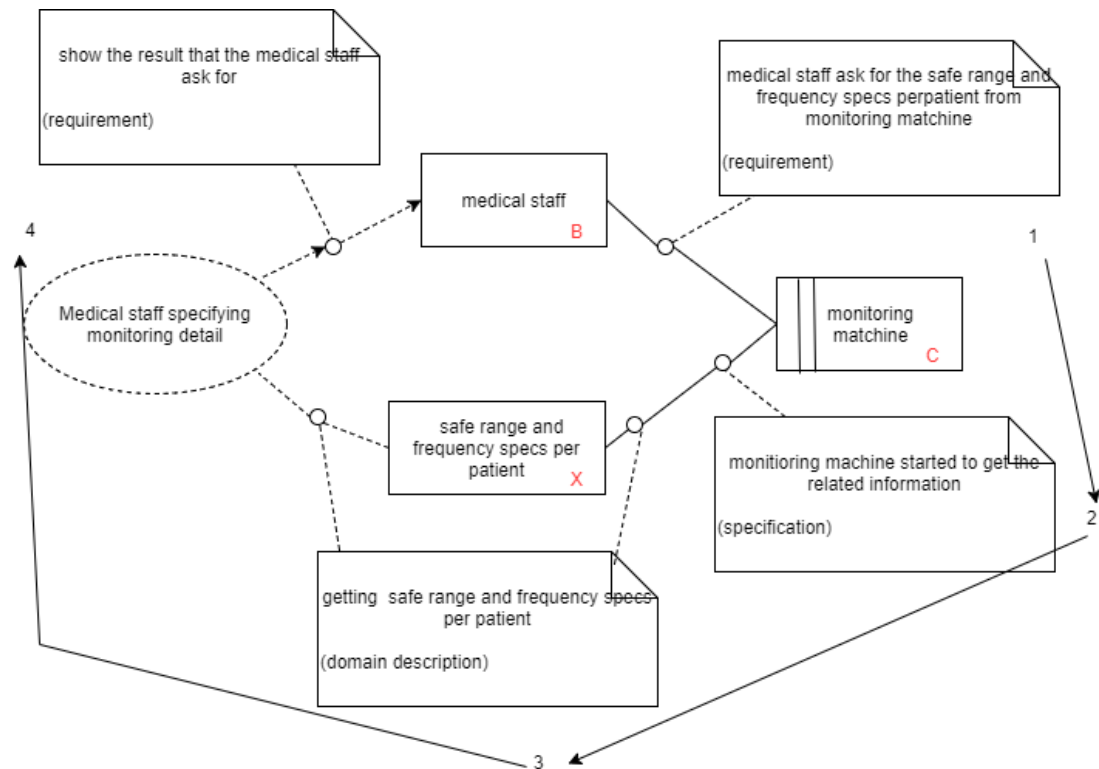

a:MS!{staff ID,command}

   MM!{ patient's name,safe range,frequency }

b:MD!{ patient's name,safe range,frequency }

c:SF!{patient's name,safe range,frequency}

4. Write frame concern for the required behavior sub-problem you identified.

show the result that the medical staff ask for

(requirement)

medical staff ask for the safe range and frequency specs perpatient from monitoring matchine

(requirement)

medical staff
B

4

Medical staff specifying monitoring detail

monitoring matchine
C

1

safe range and frequency specs per patient
X

monitioring machine started to get the related information

(specification)

2

getting safe range and frequency specs per patient

(domain description)

3

It is helpful to understand how the machine satisfies the requirement if you describe the three descriptions like p107-108 Sec. 5.2.2 of the textbook.