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Assignment 2: TOET SPM

Question no 1:

- Product metrics vs Product metrics

Product metrics:

It describes the characteristics of the product such as size, compatibility, design features, performance and quality level of

Example:

1. Kilo lines of code
2. Defect Detection Rate

Process Metrics:

It can be used to improve efficiency of an existing process used in software development and maintainance.

Example:

1. Defect Detection Percentage
2. Defect Density
3. Time to fix the defect.

- Subjective Metrics Vs Objective Metrics

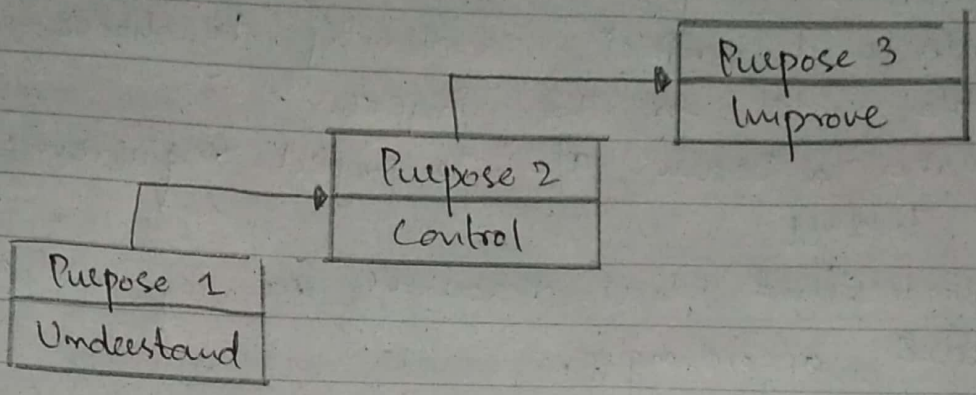
Objective Metrics:

1. They are non-negotiable, i.e the way they are defined does not change with respect to the niche or the type of endeavor they are being applied to.
2. Actual cost or AC is always total cost actually incurred in accomplishing a certain activity or sequence of activities.
3. To this standards belongs a defined 'units'
   a. meters,
   b. seconds
   c. watts.

Subjective Metrics:

1. These metrics are a relatively new precept and are more flexible than the rigid framework of the objective metrics. It deals with performance but the approach is more tailored.
2. For some enterprises the niche in which they function forces project management to change in order to adapt to the demands of the workplace.

Question no 2



1. Measurement Goals: (Purpose: ~~Process~~ Improve)
   (i) To improve strategies for the timely competition and to achieve desired goals.
   (ii) Improve quality of Product, Process should be unambiguous.
   (iii) Improve feedback process by focusing on different measures.

2. Indicators (Purpose: Control)
   (i) Cost and time should be under control
   (ii) Controlling that the project is under defined scope to avoid scope creep.
   (iii) Understand the dependencies of a process so that delay in one process may not affect other.

3. Understand Purpose :
(i) Understand project complexity to choose suitable model for the Project.
(ii) Make a team a/c to project requirement and budget.
(iii) Understand what resources are required and allocate accordingly.

Question 3 :

Case - A

Goal:
- Improve Reliability
- Improve Maintability
- Improve flexibility
- Improve Usability

Questions:
Q1 How much software is being maintained?
Q2 What is the current reliability
Q3 what is the complexity of Software?
Q4 How good is documentation?
Q5 what are the maintainance staff like?
Q6 what are the reliability staff like

Metrics:

1. #Modules
2. FP's
3. LOC
4. #faults found.
5. % effort spent on maintainance
6. paths count metrics
7. % comment
8. year experience qualifications.
9. %Testing
10. Effectiveness.