CSE6214 Software Engineering Fundamentals

Tutorial 12

Part A: Discussion
Topic (Lecture 12): Software Project Management

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1. Briefly describe the four P's in software project management.

2. List a few examples of project metrics.

3. Explain the use of size-oriented and function-oriented metrics.

4. What is required to produce a good estimation for a software project?

5. What is software scope?

Part B: **Tutorial Activity**
Learn to draw network diagram in finding a critical path (AOA)
Calculate path possibility and estimated path.

Activity 1 – Read and understand the meaning of Critical Path Method at the following URL: http://en.wikipedia.org/wiki/Critical_path_method

a) What is the importance of drawing an (Activity on Arrow) AOA diagram in finding a critical path?
b) Search the Internet on the characteristics of an AOA Diagram.
c) Find out the meaning and the symbols that represent Activity, Event and Dummy Activities in AOA diagram.

Activity 2 – Draw an AOA diagram based on Table 1

Table 1

Activity	Immediate Predecessor	Duration (month)
A	-	4
B	-	3
C	A	2
D	A	4
E	B	2
F	C	3

Activity 3 – Draw an AOA Diagram and calculate the longest path using Table 2

Table 2

Activity	Immediate Predecessor	Duration (week)
A	-	2
B	-	1
C	-	3
D	A	2
E	B, C	4
F	C	4
G	D, E	3

Part C: **Project**
Task: Verification & Validation

1. Review the prototype with the software design, and ensure that the prototype is developed according to the software design.

2. Review the functions of the prototype with the software requirements, and ensure that the required functions are processing as required by the customers / users. You should use the acceptance test as a checklist for this purpose.