

CSE6214 Software Engineering Fundamentals

Tutorial 3

Part A: Discussion

Topic (Lecture 3): Software Requirements Engineering

1. Refer to the following URL about Requirements Engineering Process:

<http://www.slideshare.net/logu73/requirement-engineering-process>

(a) What do you understand about Requirements Engineering?

(b) Discuss in brief about the 4 high levels of RE sub processes

Requirements engineering [spiral, can go back and forth] :

- feasibility (whether have enough manpower, can
- elicitation (what function client want)
- specification (documenting, maintaining)
- validation

2. Why is it that many software developers don't pay enough attention to requirements engineering? Are there ever circumstances where you can skip it?
3. Discuss some problems that occur when requirements must be elicited from three or four different customers.
4. What is the purpose of domain analysis?

Part B: Project

1. Based on the System Overview describing the processes, prepare a list of use cases for the project. Refer to the following webpage on how to write use cases:

<http://www.visual-paradigm.com/tutorials/writingeffectiveusecase.jsp>

2. For each use case, write a paragraph describing the use case process – what the actors input to the system, what the system processes, and what output is generated to the user.
3. Draw the use case diagram and submit to the tutor. Refer to the following webpage on how to draw use case diagrams in Visual Paradigm:

http://www.visual-paradigm.com/support/documents/vpuserguide/94/2575/6362_creatingusec.html

(Note: you should write the paragraph in the use case specification)

4. Assigned each team member to a process. The assigned member will be responsible to further elaborate the use cases with activity diagrams. Refer to the following webpage on how to draw activity and swimlane diagrams in Visual Paradigm:

http://www.visual-paradigm.com/support/documents/vpuserguide/94/2580/6713_drawingactiv.html