CSE6214 Software Engineering Fundamentals

Tutorial 2

Part A: Discussion

Topic (Lecture 2): Software Process

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1. Describe a process framework in your own words. When we say that framework activities are applicable to all projects, does this mean that the same work tasks are applied for all projects, regardless of size and complexity? Explain.

2. Give some examples of umbrella activities, which occur throughout the software process. Do you think they are applied evenly across the process, or are some concentrated in one or more framework activities?

3. Compare the following software engineering paradigms and discuss the type of software project that would be more applicable to each model.
   - Waterfall model
   - Incremental model
   - Prototyping model
   - Spiral model

4. Many of the recent models contain prototypes. Discuss what a software prototype is.

5. Discuss the values specified in the Agile Manifesto and how they relate to the "agility" of a software project.

6. Explain the key ideas and tasks for the framework activities in Extreme Programming. How are they different from the Prescriptive Process Models such as Waterfall Model?

7. Briefly describe the Scrum method. Explain the meanings of the following terms:
   - Backlog
   - Sprints
   - Scrum master

Part B: **Project**

Objective: To develop a plan for the project, to write System Overview

1. Elect the Team Leader and submit the name and contact details to the tutor. If you have not joined any groups, inform the tutor.

2. Based on the Project Description, identify the software process model to be used in the project. Based on the process model, plan the project activities and milestones. Draw the Gantt chart for the project.

3. Discuss with the tutor about the project scenario and identify the following:
   - The main users / roles in the system
   - The main processes / functions in the system

4. Write a System Overview based on your discussion. It should consist of an overview of the required system, main users / roles, and descriptions of how each user / role uses the system in the processes / functions.