Software Engineering

Assignment for Week 1

Assignment for Lecture 1: Generic View

Please submit a report with your answers to the following questions. (m5XXXXXX_lec01.pdf)

1. What are three ways to deal with a wide variety of software functionality? Please explain each of them.
2. Indicate two aspects (dimensions) that define software complexity. If you have software being developed in your laboratory, analyze which quadrant it belongs to.
3. What are the principles of software engineering that can be applied to all type of software system?
4. What general issues make software development difficult?
5. What are the main four software process activities?
6. Please summarize "No Silver Bullet" by Fred Brooks within 300 words.
7. Please summarize about "Software Crisis" within 300 words.
8. Please summarize what you personally think about the ethics and practices of software engineering that you will be strictly adhering to, within 300 words.
9. Apart from the challenges of heterogeneity, business and social change, and trust and security, suggest other problems and challenges that software engineering is likely to face in the 21st century. (Hint: Think about the environment.)
10. Explain how the universal use of the web has changed software systems and software systems engineering.

Assignment for Presentation

Please submit a report with your responses to the following questions. (m5XXXXXX_pre01.pdf)

1. What is your research area?
2. What is your research theme?
3. How does your research relate to software engineering?

Deadline

1 week later