

Software engineering assignment

Software Engineering Assignment Questions

1. Software Development Life Cycle (SDLC)

- Explain the different phases of the Software Development Life Cycle. Provide examples of activities in each phase.

2. Agile Methodology

- Describe the Agile methodology. How does it differ from the Waterfall model? Highlight its advantages and challenges.

3. Software Design

- What are the principles of good software design? Explain with examples.

4. UML Diagrams

- Draw and explain the purpose of any two UML diagrams: Use Case Diagram, Class Diagram, or Sequence Diagram.

5. Software Testing

- Differentiate between black-box testing and white-box testing. Provide examples of scenarios where each is used.

6. Software Maintenance

- What are the types of software maintenance? Explain how each type is applied in real-world projects.

7. Requirement Engineering

- Explain the process of requirement engineering. How do you ensure that the requirements are clear and complete?

8. Version Control Systems

- Discuss the importance of version control systems in software development. Compare Git and SVN in terms of features and usability.

9. Risk Management

- What are the common risks in software engineering projects? Describe strategies to mitigate these risks.

10. Software Quality Assurance

- Explain the importance of Software Quality Assurance (SQA). What are the key activities involved in ensuring quality during software development?
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Instructions for Submission:

- Provide detailed answers to each question.
- Include diagrams wherever necessary.
- Submit the assignment as a PDF by the given deadline.