

Software Engineering & Design

1. Remembering:

- Define the nature of software and its significance in various application domains.
- List the characteristics of legacy software and explain the challenges associated with maintaining and upgrading it.
- Describe the changing nature of software, including WebApps, Mobile Applications, Cloud Computing, and Product Line Software.

2. Understanding:

- Differentiate between functional and non-functional requirements in software engineering.
- Explain the importance of requirements engineering processes in software development.
- Describe the elements of a software requirements document and the process of requirements validation.

3. Applying:

- Utilize software design concepts such as abstraction, architecture, and modularity in designing software systems.
- Develop a software design model by applying object-oriented design principles and design classes.
- Estimate effort using techniques such as Function Points and COCOMO for project scheduling and staffing.

4. Analyzing:

- Analyze software testing strategies and environments for building an effective software testing process.
- Differentiate between various types of software testing and apply black box and white box testing techniques.
- Evaluate the software testing lifecycle and its importance in ensuring high-quality software products.

5. Evaluating:

- Assess software quality guidelines and attributes to ensure the quality of software products.
- Critically evaluate the importance of software process models in managing software development projects.
- Analyze the role of requirements management in the success of software projects.

6. Creating:

- Develop software requirements specifications based on requirements elicitation and analysis.
- Design software systems using design concepts such as separation of concerns and information hiding.
- Implement software testing processes and techniques to ensure the reliability and effectiveness of software applications.

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