

Project Methodology - Tutorial 03

01. What are the project management phases consist of when creating project plans?

Initiation, planning, execution, controlling & monitoring, closure

02. Briefly describe each of the following software development methodologies

The waterfall methodology is a project management approach that emphasizes a linear progression from beginning to end of a project. This methodology, often used by engineers, is front loaded to rely on careful planning, detailed documentation and consecutive execution.

Parallel platform development occurs when multiple developers are working on different versions of the same object for different hardware platforms (often called variants). The different versions of the objects, such as one version for windows and one for UNIX, are typically not merged.

The V model is a project management system that's popular in software and web development. This model uses sequential phases paired with validation tests that allow the development team to set clear expectations and identify potential flaws throughout the process without needing a final build first.

Rapid Application Development or RAD means an adaptive software development model based on prototyping and quick feedback with less emphasis on specific planning. In general, the RAD approach prioritizes development and building a prototype, rather than planning.

The agile methodology is a set of techniques, values and principles designed to guide and improve how software development teams work together to deliver new applications and updates. It values: individuals and interactions over processes and tools. Working software over comprehensive documentation.

02. Compare the differences between waterfall development and V-Model development.

Waterfall Model

- The software testing is done after the completion of development phase.
- Type of waterfall model is relatively linear sequential design.
- In waterfall method can't go reverse.
- Cost is low.
- Complexity is lower than v-model.
- Probability is high.

V-Model

- Each phase in the development cycle has a directly associated testing phase.
- Type of v-model is sequential/parallel in nature.
- In parallel method can go reverse.
- Cost is high.
- Complexity is more than waterfall.
- Probability is low.