

⑤. What is the testing phase in the SDLC model?

The developed software is thoroughly tested to ensure that it meets the requirements and works correctly.

Tutorials ③

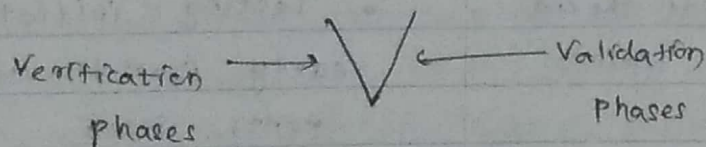
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① What are the project management phases consist of when creating project plans?

initiating, planning, executing and closing, monitoring and controlling, closure

② Briefly describe each of the following software development methodologies.

- Waterfall → It is a breakdown of project activities into linear sequential phases, meaning they are passed down on to each other. It sequentially approaches planning, analysis, designing, implementation and system execution. No reverse in this method.
- Parallel → In this method after creating the initial design it is divided into subprojects among sub teams. each team will perform their task simultaneously. can reverse back.
- V-model → An extension of Waterfall model. It is also known as verification and validation model. The corresponding testing phase is planned in parallel.



- RAD model → prototyping and iterative development with no specific planning.
- Uses minimal planning in favor of rapid prototyping.
- No detailed preplanning.

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* Agile development → A combination of iterative and incremental process models with focus on process adaptability and customer satisfaction by rapid delivery of working software product.

Steps :

Planning, Requirement analysis, Design, coding, unit testing and acceptance testing.

Pros & cons :

- * A realistic approach to software development.
- * Promotes teamwork and cross training.
- * Resource requirements are minimum.

- * Not suitable for handling complex dependencies.
- * More risk of sustainability, maintainability, extensibility.

③ Compare the differences between Waterfall development and V-model development.

Waterfall development vs V-model development.

- | • Sequential | • Iterative |
|---|--|
| • Limited or no feedback loops | • Early and continuous feedback through the testing in each phase. |
| • Testing occurs at the end of the development cycle. | • Testing initiated early from the requirements itself. |
| • Does not accommodate changes easily. | • Allows changes. |