tutorials (A)

(1) What is a software development withodology, and why it is important in the software development process?

A process by which developers design implement and test new computer.

(4) What are the challenges and considerations when selecting and implementing a specific software development methodology for a project.

challenges.

NO: SAD

* Unestablished project infrastructure.

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- * Keeping up with changing requirements.
- * Quality Assuarance.
- * Undefined quality standards.

Considerations,

- * The type and size of the project
- * Development techniques and tools.
- * Development risks.
- * Tr Teams' capasity.
- * Experienced pevelopers and correct team structure.

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(2) What is the main difference between traditional (Waterfall) and iterative (Apile) Methodologies ?

· (Sequencial) Waterfall method is a linear system of working that requires the team to complete each project phase before moving on to the next one while Agile encourages the team to work simultaneously on different phases of the project. Agile advocates iterative development cycles in with multiple lifecycle phases can run in parallel.

Futhermore;

Waterfall method values quality over speed but Agile

Mockey's documentation (legit) Waterfall without is flexible for the elfent's requirements method values to go after the Tapid changes of market (need too speed) In waterfall methods requirements are clear and settled but in Agile requirements are uncertain · Agile allows for progressive eloboration of the plan while Naturall method follows the plan developed at the beginning of the project. (6) What are the key components of the scrum formework in Agile methodology? A scrum frame work contains; * The roles; "Serum master, scrum product, own (scoum team) and the scoum team. * Dovo lopment team * The sprints , sprint planning, sprint review, sprint backlog, sprint retro Daily scram. or scrum events; sprint planning events scrum meeting sprint review meeting sprint retrospective meeting. To only the (5) What is agile methodology and what are it's key principles and values ? Agile methodology is a project management approach that involves breaking the project into phases and emphasizes continuous collaboration and improvement core values and principals of Agile methodology; D Emphasized teamwork and communication, > Working software over comprehensive documentation. 3) customer collaboration over contract negotiation. A Responding to change over following a plan. 50 Find TK 12 porociple Map