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Discussion 3

1. Briefly describe the V model in your own words.
   1. A more in-depth version of the waterfall method that testing is started as soon as requirement are met.
2. In what cases do you think the V model is appropriate to apply?
   1. In a smaller project where the requirements are clear.
3. What is the difference between system design and architecture design?
   1. System Design- The inner workings of the software
   2. Architecture Design- Is the software’s “skeleton”
4. What the different stages of software testing? Are there other stages not discussed in the lecture? Describe each stage in your own words.
   1. Unit Testing- Testing the code to help find and get rid of bugs earlier on
   2. Integration Testing- Tests to see if the internal modules can operate well together within the system.
   3. System Testing- Tests to check that the entire system is functioning and is in communication with external systems
   4. Acceptance Testing- Tests to see if the system is compatible with other systems that the user may be using.
5. What are the differences between validation and verification?
   1. Validation is the assurance of quality work and verification is an evaluation of quality work.
6. Describe the incremental process model in your own words.
   1. It breaks it down into multiple increments which leads to faster delivery and deployment to the customer.
7. Explain in what way the incremental model may be more efficient than the V model.
   1. It is easier to get feedback from the customer on the development that has already been completed.
8. Explain in what way the waterfall model may be more applicable than the incremental model.
   1. If it was a smaller project that did not need to be broken down into smaller pieces.
9. “Each stage of the incremental model is completed following the waterfall model” Do you agree or disagree? Explain your answer.
   1. Yes
      1. Each Stage must follow these steps from the waterfall model:
         1. Communication
         2. Planning
         3. Modeling
         4. Construction
         5. Deployment
10. Describe the evolutionary process model in your own words.
    1. It is a quick process that must be repeated for quality work. This process is used when the objectives given by the client are very general.
11. What are the differences between the incremental model and the prototyping model?
    1. Prototype model is when a prototype is built, tested, and then changed as customer needs change. Whereas the incremental model is when the product is analyzed, designed, and tested in increments until the product is finished.
12. What are the differences between spiral model and incremental model?
    1. The difference is that the spiral model will complete the divided parts simultaneously rather than the incremental model where it is completed in steps.
13. What are the differences between spiral model and prototyping model?
    1. Prototype model is when a prototype is built, tested, and then changed as customer needs change. Whereas the spiral model is broken into multiple pieces and those pieces are completed simultaneously.
14. What process model would you use when the client himself is unsure of the requirements?
    1. The Evolutionary Model