Waterfall Models

Incremental Models

Iterative Models

Applying traditional software development models

- **Video:** Phase Gates / Stage Gates
  8 min
- **Video:** Applying Software Development Models
  13 min
- **Quiz:** Traditional Software Development Models
  11 questions
- **Peer-graded Assignment:** Project Scenario 1
  2h
- **Review Your Peers:** Project Scenario 1

Peer-graded Assignment: Project Scenario 1

Reviews 9 complete

You've finished your peer reviews
Well done! You sent 9 peers feedback that will help them. If you have time, please review one or two more. Every review you do helps another peer complete the course!

Your fellow learner has submitted their assignment anonymously and your review will be anonymous to them. All names are still visible to course instructors.

MyWork

by Anonymous Learner
April 17, 2020

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PROMPT

What software development methodology would you suggest for this situation and why?

- Step 1: Start analyzing the scenario by **identifying the characteristics** of this situation and **specify the logic** behind the selection of characteristics. For example, you may identify "User Needs Unknown" as a characteristic based on statement X, Y and Z in the scenario.
- Step 2: **Select a model** that best fits the characteristics you identified in step 1. **Justify your choice** by providing by the logic behind your selection. For example, you may say that since the scenario has characteristics X and Y, models A and B are potential candidates. Additionally, since the scenario has characteristic Z, model A is the best option.

- Zenith Healthcare is a new company in the market.
- The company needs to re-architect the system and want to provide the exact same functionality.
- Requirements from the client perspective are very well known.
- Four components need to be re-architect.
- Out of 4, one component has caused the most problem.

Sashimi Model

- As we have all the requirements from the user, the Sashimi Model will best fit in the characteristics above.
- Sashimi model shortens the development time, So the developer can deliver the product on time.
- people with different skill can start working without waiting. for example, you can start with your design phase while the requirements are being created.

RUBRIC

Did the learner identify "**Known User Needs**" or "**Known Requirements**" (or something similar) as one of the characteristics and specified the correct logic?

- 0 pts
  Didn't identify this characteristic
- 1 pt
  Identified the characteristic but the logic / reference statement used to support the characteristic was incorrect. The correct logic / reference statement to support this characteristic is "**...with the exact same functionality. Thus, the requirements from client perspective are very well known and do not need to change**"
- 2 pts
  Identified the characteristic and specified the correct logic

Did the learner identify "**Known Solution**" (or something similar) as one of the characteristics?

- 0 pts
  Didn't identify this characteristic
- 1 pt
  Identified the characteristic but the logic / reference statement to support this characteristic was incorrect. The correct logic / reference statement to support this characteristic is "**What needs to be changed in the system to support the growing demand is also well understood**"
- 2 pts
  Identified the characteristic and specified the correct logic

Did the learner identify "**Benefit in deploying part of the product**" (or something similar) as one of the characteristics?

- 0 pts
  Didn't identify this characteristic
- 1 pt
  Identified the characteristic but the logic / reference statement to support this characteristic was incorrect. The correct logic / reference statement to support this characteristic is "**Out of the 4, one of them has caused the most pain and organization could benefit greatly if that component could be replaced first with a new, highly scalable architecture**."
- 2 pts
  Identified the characteristic and specified the correct logic

Did the learner select the right model for the scenario and provide the correct logic?

- 0 pts
  Learner selected a model that is ill-suited to this situation like the Spiral Model, the V-Model, Sashimi, or the Waterfall method
- 1 pt
  Learner selected a model that will work but is not the preferred model (e.g. "Unified Process")
- 2 pts
  Learner selected the right model: the Incremental Model
- 3 pts
  Learner selected the right model and the right variation of it: the most basic incremental model -- all phases are completed in each increment. This allows us to replace the most pain-inducing component as fast as we can.
- 4 pts
  Learner selects the right model and specifies the right logic behind the selection: "Out of the 4, one of them has caused the most pain and the organization
  could benefit greatly if that component could be replaced first with a
  new, highly scalable architecture."

What is the overall quality and detail of the response and the facts supporting the response.

- 0 pts
  Little detail
- 1 pt
  Enough detail
- 2 pts
  Enough detail with additional, out-of-the-box/creative thinking

Any other open feedback for this question?

PROMPT

For the selected model, take us through a simulated / fictitious journey on how this project will be completed all the way from defining requirements to deployment. You are free to make up characters as you feel appropriate to fit your story. Please watch the video on" Model Selection" to get an idea. The video stays at high level, but you can go in further details as you feel necessary. In your story, please make sure to talk about artifact and practices followed by the team on this project.

For the selected model, take us through a simulated/fictitious journey on how this project will be completed all the way from defining requirements to deployment. You are free to make up characters as you feel appropriate to fit your story. Please watch the video on" Model Selection" to get an idea. The video stays at a high level, but you can go in further details as you feel necessary. In your story, please make sure to talk about artefact and practices followed by the team on this project.

In this project, we have well-known requirements from the client. To support the expected demand the company needs to re-architect the system and wants us to provide the exact same functionality. The product has 4, fairly independent components. All 4 components need to be re-architected. One of them has caused the most pain and the organization could benefit greatly if that component could be replaced first with new. but we're not specifically sure which one of those components needs to be replaced.

In this situation, I select Sashimi model to work on this project. The idea is that we allow overlapping the different phases of the software development lifecycle. instead of waiting for the requirement phase to complete, you can start with design while the requirements are being created. Similarly, if the part of the application designs we can start the Implementation phase and so on.

RUBRIC

Does the story supports the model selected by the learner?

- 0 pts
  The story does not supports the model selected by the learner
- 1 pt
  Identified the characteristics but logic / reference statement to support this characteristic were incorrect. The correct logic / reference statement to support this characteristics is "**Also, college leadership has some idea on what to build but not sure what exactly are college needs in terms of automation**"
- 2 pts
  The story was very detailed and complete (covers all artifacts and ceremonies of the model selected)
- 4 pts
  The story was very creative and covers things that weren't taught in the course but applicable to this scenario.

PROMPT

What kind of testing would you suggest the team to do? Be sure to justify your answer.

I would suggest a Validation Testing. Validation confirm that the software performs to the user's satisfaction and assure that the software system meets the user's need.

RUBRIC

Are the types of testing suggested by the submission appropriate for the example?

- 0 pts
  There are no suggested types of testing.
- 5 pts
  Some types of testing are listed, but no attempt is made to justify them, right or wrong.
- 6 pts
  Some types of testing are listed, some are right but most are wrong. The justification does not do a good job of explaining why these types of testing are needed.
- 7 pts
  Types of testing listed make sense for the project (with at most one exception), but the justification does not do a good job of explaining why they are necessary.
- 8 pts
  Types of testing listed make sense for the project (with at most one exception), but the justification only does a mediocre job of explaining why they are necessary.
- 9 pts
  Types of testing listed make sense for the project (with at most one exception), and the justification provided makes sense (with at most one exception).
- 10 pts
  The types of testing listed are perfectly applicable to the project, and these types of testing are fully justified.

PROMPT

Write a few example of test cases or a descriptive narrative for what you expect the testing team to use when testing this product.

The purpose of testing is to find the bug or error. You've got to make sure that you have quality input, and output for any of this stuff to work.

RUBRIC

Do the test cases or narrative provided make sense relative to the project at hand?

- 0 pts
  There are no test cases or narrative
- 5 pts
  Test cases or a narrative exist, but is either not at all clear or completely misses the point of the assignment.
- 6 pts
  Some test cases or a brief narrative appears, but only applies to the project in a tangential way (is mostly off-topic, hardly related, etc.)
- 7 pts
  Test cases provided are not fully described (e.g. they are missing expected output); the narrative merely lists ways of testing which are generic or the definition of the type does not apply them to this specific project.
- 8 pts
  Test cases exist but are not considered comprehensive; Narrative only applies to the project partially, or is incorrect in some major way
- 9 pts
  Test cases exist and are nearly comprehensively descriptive; Narrative applies but has mistakes which affect applicability/understandability
- 10 pts
  Test cases included are excellent; Narrative clearly explains the how the testing should be approached.

Submit Review

Comments

Comments left for the learner are visible only to that learner and the person who left the comment.

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