Peer-graded Assignment: Project Scenario 1

Reviews 12 complete

You've finished your peer reviews
Well done! You sent 12 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.

Zenith Healthcare product

by Anonymous Learner
April 17, 2020

Like Flag this submission

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.

Based on the information in the situation which has been assigned to me above, I would like to recommend the project manager should apply **iterative and incremental approach** to develop the software. There are some reasons why I recommended that:

1. Because the **current system architecture cannot support the rising demand of the product** which is loved by clients and is growing in popularity, it's **needed to be re-architect** but still **provide the same functionality**. It means that the **requirements** from client perspective are really **well known** and they **don't need to change**, and the **change** requirement **to support the growing demand** is clearly understood. With that information, **a predictive model** is suitable for the situation. Some of them are **Waterfall, V-Model, Incremental, Iterative, Incremental and Iterative**, and etc.
2. The product has been launched 2 years ago, it is working and to keep the growth of the product, **Zenith Healthcare must cover the problem of growing support fast enough to prevent losing of market shares**. Therefore, **Waterfall model and V-Model are not suitable**. The others are more appropriate than them.
3. The product has **4, faily independent components**, and all of them **need to be re-architected**, so we can organize the development team so that we can **develop** 4 of them **in parallel**. Moreover, out of the 4, one of them has caused the most pain and the organization could benefit greatly if the component could be replaced with a **new, highly scalable architecture**. Thus, we can **set the priority to re-architect for the component earlier than others** after re-architecting for the whole system.
4. The technical architect and project manager work from the corporate headquater in Germany, but most of the team who will do the coding for the migration will be in Belarus. The testing team will also be in Belarus. It means that they are **working in distributed model**, hence, they need **a formal way to communicate with each other e.g. with documents.** On the other hand, The work of migration is a tedious job and the deployment of a new system will involve a lot of external communication, managing customer expectation, etc. Thus, we need **a more interactive approach and rich communication including documents in development life-cycle**.

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.

By apply iterative and incremental development model, at the beginning, the project team will perform requirement analysis activity first to create requirement document and a meeting to get agreement on the requirement document will be hold before moving to re-architect activity. After re-architecting the whole system, architect and development team will work on re-architecting the most pain component first, then re-architect three other components in parallel. Then the team will develop and test those components simultaneously. When each component is completed, it will be integrated and deploy into the system immediately. Integration test activity will be performed each time a component is integrated into the system. After all components were integrated completely, the Testing team in Belarus will do the system test for the whole system. After that, the system will be tested at the site of project manager and architect with some client representatives as an alpha acceptance testing. At last step of development process, the system will be tested at clients' site in a beta acceptance testing phase in a duration of several months.

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.

As I describe above, the team should perform following testing levels:
+ Component Testing
+ Integration Testing
+ System Testing
+ Alpha Acceptance Testing
+ Beta Acceptance Testing

And the team must perform following type of testing:
1. Functional Testing - to make sure the efficiency and completeness of the functionality of the system.
2. Performance Testing - to make sure that the architecture of whole system and each components satisfies practical requirement.
3. Scalability Testing - to make sure that the organization could get the benefits from the popularity growth of the product.
4. Usability Testing - to make sure that users are able to learn and easy to use the system.

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.

Testing team should check following aspects:
1. Do the system have all of functionality as the previous version? Are they completed and efficient?
2. Is there any defects in those functionality?
3. Is the system able to scale up to meet the growth demand?

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.

Share your thoughts...