Waterfall Models Incremental Models Iterative Models ✔ Peer-graded Assignment: Project Scenario 1 Applying traditional software Video: Phase Gates / Stage Gates You've finished your peer reviews Well done! You sent 14 peers feedback that will help them. If you have time, please review one or two more. Every Video: Applying Software Development Models review you do helps another peer complete the course! 13 min Quiz: Traditional Software Development Models Your fellow learner has submitted their assignment anonymously and your review will be anonymous to them. All 11 questions names are still visible to course instructors. Peer-graded Assignment: Project System Architecture - Zenith Healthcare Review Your Peers: Project Scenario by Anonymous Learner ♡ Like 🏳 Flag this submission April 17, 2020 PROMPT RUBRIC What software development methodology would you suggest for this situation and why? Did the learner identify "Known User Needs" or "Known Requirements" (or something similar) as Step 1: Start analyzing the scenario by one of the characteristics and specified the correct 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 Didn't identify this characteristic based on statement X, Y and Z in the scenario. Step 2: Select a model that best fits the Identified the characteristic but the logic / characteristics you identified in step 1. Justify reference statement used to support the your choice by providing by the logic behind characteristic was incorrect. The correct logic / your selection. For example, you may say that reference statement to support this characteristic since the scenario has characteristics X and Y, is "...with the exact same functionality. Thus, models A and B are potential candidates. Additionally, since the scenario has the requirements from client perspective are very well known and do not need to change" characteristic Z, model A is the best option. O 2 pts Based on the information provided, the project of Identified the characteristic and specified the Zenith Healthcare has following characteristics: 1. Well known requirements for 3 out 4 components - the project is just to re-architect the existing components and the functionalities of existing system are well accepted by clients. Did the learner identify "Known Solution" (or 2. Experienced development team - the team something similar) as one of the characteristics? developed the existing system 3. Components are relatively independent 4. One out of four components is the pain point Didn't identify this characteristic of existing business process and company can be benefited from the replacement of this Identified the characteristic but the logic / component as early as possible. 5. Involvement and feedback from clients are reference statement to support this characteristic was incorrect. The correct logic / reference required for re-engineering the problematic component so as to reduce the risk and ensure statement to support this characteristic is "What the new version can fulfill users' requirements needs to be changed in the system to support the growing demand is also well understood" and demand. 6. The rest of components is relatively stable Summary the above points, the handling of the Identified the characteristic and specified the defected component should be distinct from other correct logic components due to its high risk, urgency and unclear requirement. Did the learner identify "Benefit in deploying part Incremental model is a ideal model adopted for this of the product" (or something similar) as one of the project. Each components is deemed as the independent increment in the project. Each increment can be applied with different Didn't identify this characteristic development models. For details, spiral model is applied to the defected component so as to incorporate involvement and feedback from clients in Identified the characteristic but the logic / the development to ensure the new version can be reference statement to support this characteristic truly validated by user and can process with the was incorrect. The correct logic / reference increasing demand. Waterfall model will apply to the statement to support this characteristic is "Out of rest components to save the resources for the rethe 4, one of them has caused the most pain and organization could benefit greatly if that engineering of the defected component component could be replaced first with a new, The increment can be implemented at different point highly scalable architecture." of time. The increment of defected component can be started first so that the team have more time and 2 pts resource to polish this component with a hope to correct logic launching new version as earliest convenience. starts at different time so that the development can develop the defected component first and then the Did the learner select the right model for the scenario and provide the correct logic?

rest components with a hope of early tackling the pain points from the defected component.

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. Little detail 1 pt Enough detail O 2 pts Enough detail with additional, out-of-thebox/creative thinking Any other open feedback for this question?

0 pts

Model

4 pts

organization

Learner selected a model that is ill-suited to this situation like the Spiral Model, the V-Model, Sashimi, or the Waterfall method

Learner selected a model that will work but is not the preferred model (e.g. "Unified Process")

Learner selected the right model: the Incremental

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

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

component as fast as we can.

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. In my imagination, the project team will initiate the requirement workshop with clients for the new

version of the system. The team can compile specifications, architecture design and overall component design.

Then the team can initiate the first increment which is the component with most pain points with spiral model. This is a iterative process that the team first define the objectives of re-architect for this component, then identify the risk and solution, develop the prototype and then review with clients what to do next iteration. In each loop, the team can receive feedback from clients and refine the new component to ensure the final version and make sure that the process is on the right track. The loop is stopped until the team and clients think the new version is good enough to launch. With spiral model, the risks can be deviated and the new version of component can be verified and validated by the client

With the progress of implementing new version component to replace the old defected one, the team can initiate other increments with waterfall model. The waterfall approach is pretty straight forward. The team and clients goes through requirement, design, implementation, testing and deployment. The gate may be set in between each phase to let every stakeholder to review if everything in precedent phase is on track.

RUBRIC Does the story supports the model selected by the

> The story does not supports the model selected by the learner

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"

The story was very detailed and complete (covers all artifacts and ceremonies of the model selected) The story was very creative and covers things that weren't taught in the course but applicable to this

PROMPT

What kind of testing would you suggest the team to

do? Be sure to justify your answer. As incremental model is adopted, the increments start at different time. And incremental testing approach is also adopted. We first tested the first component which is supposed to be the new version of the original defected component. Then, we add more test cases to verify if the first component works well with later components step by step.

A bottom up testing approach is also applicable as the components are relatively independent.

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

There are no suggested types of testing. Some types of testing are listed, but no attempt is made to justify them, right or wrong.

but most are wrong. The justification does not do a good job of explaining why these types of testing are needed. 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

Some types of testing are listed, some are right

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.

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

PROMPT

Write a few example of test cases or a descriptive narrative for what you expect the testing team to use Do the test cases or narrative provided make sense relative to the project at hand?

RUBRIC

when testing this product. For bottom up approach, the testing is expected to deliver the stub to test the individual components. Then the team can build the driver to test if the components work well with its adjacent components and so on until the driver combines all components.

There are no test cases or narrative

Test cases or a narrative exist, but is either not at all clear or completely misses the point of the assignment.

only applies to the project in a tangential way (is mostly off-topic, hardly related, etc.) 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

Some test cases or a brief narrative appears, but

the definition of the type does not apply them to this specific project. Test cases exist but are not considered comprehensive; Narrative only applies to the

project partially, or is incorrect in some major way Test cases exist and are nearly comprehensively descriptive; Narrative applies but has mistakes which affect applicability/understandability

Test cases included are excellent; Narrative clearly explains the how the testing should be approached.

Submit Review

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