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✔ Peer-graded Assignment: Project Scenario 1
Reviews 5 complete
  You've finished your peer reviews
  Well done! You sent 5 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.
Stronger, Better, Faster... Software
by Anonymous Learner
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     April 10, 2022
    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.
                                                             1 pt

    Step 2: Select a model that best fits the

                                                               Identified the characteristic but the
        characteristics you identified in step 1. Justify
                                                               logic/reference statement used to support the
         your choice by providing by the logic behind
        your selection. For example, you may say that
                                                               characteristic was incorrect. The correct
                                                                logic/reference statement to support this
         since the scenario has characteristics X and Y,
                                                                characteristic is "...with the exact same
         models A and B are potential candidates.
                                                                functionality. Thus, the requirements from
         Additionally, since the scenario has
                                                               client perspective are very well known and do
         characteristic Z, model A is the best option.
                                                                not need to change"
    The situation involves a 2 year old product that needs
   new architecture to handle growing demand. The
                                                               Identified the characteristic and specified the
   client needs are well known as the system must
                                                               correct logic
   perform the exact functions.
   The best design model for this scenario is the
   Incremental Model where the Requirements and
   Design are done upfront and each branch afterwards
                                                             Did the learner identify "Known Solution" (or
   will follow the Waterfall Model. These designs work
                                                             something similar) as one of the characteristics?
   best with low-risk, predictive situations. Since the
   system is performing the same exact needs, the
    Requirements and Design will be consistent.
                                                                 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"
                                                             O 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?
                                                                 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."
                                                             O 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?
                                                             O pts
                                                               Learner selected a model that is ill-suited to this
                                                               situation like the Spiral Model, the V-Model,
                                                               Sashimi, or the Waterfall method
                                                            ○ <sub>1 pt</sub>
                                                               Learner selected a model that will work but is not
                                                               the preferred model (e.g. "Unified Process")
                                                            O 2 pts
                                                               Learner selected the right model: the Incremental
                                                           O<sub>3 pts</sub>
                                                               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.
                                                             O 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.
                                                            O pts
                                                               Little detail
                                                             1 pt
                                                               Enough detail
                                                             O 2 pts
                                                               Enough detail with additional, out-of-the-
                                                               box/creative thinking
                                                             Any other open feedback for this question?
   Imagine that you were the lead or project manager
   for this project. For the selected model, take us
                                                             Does the story supports the model selected by the
   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
                                                               The story does not supports the model selected
   story. Please watch the video on "Applying Software
                                                               by the learner
   Development Models" to get an idea. The video stays
  at a high level, but you can go into further detail as
   you feel necessary. In your story, please make sure to
                                                               The story supports the model selected but story
   talk about artifacts and practices followed by the
                                                               was shallow with not much details
   team on this project.
   The PM and Architect will deploy the Incremental
                                                                The story was very detailed and complete (covers
   Model with the Requirements and Design are done
                                                               all artifacts and ceremonies of the model
    upfront. After this is deployed to our remote team,
   each team can work on the 4 components of the
   system simultaneously in seperate incremental
   branches and be launched when ready to meet rising
                                                               The story was very creative and covers things that
   demand. Testing can be done individually since each
                                                               weren't taught in the course but applicable to this
   component functions relatively independent. The 1
   component that requires replacement can be worked
   on first to allot for time testing while the other
   components are much more predictive and can be
   relaunched. This design will allow for development of
   multiple parts at one time since there is a high
   demand and will result in a faster development time.
   Assume that you are the quality lead or technical lead
   on this project. What kind of testing would you
                                                             Are the types of testing suggested by the submission
   suggest the team to do? Be sure to justify your
                                                             appropriate for the example?
   answer. To answer this question, first, list down the
   key things from the use case above that are really
   important. For e.g. scalability, performance, usability,
                                                               There are no suggested types of testing.
   integration between components, etc. After that,
    identify what type of testing would you want the
   team to do to make sure that upgraded product is
                                                               Some types of testing are listed, but no attempt is
   high quality and deployed defect free. Please refer to
                                                               made to justify them, right or wrong.
   the "Testing and Verification" section in module 2.
   Also, please watch the following videos to learn about
   various types of testing methods:
                                                               Some types of testing are listed, some are right
                                                               but most are wrong. The justification does not do
   https://www.coursera.org/learn/software-
   processes/lecture/G30EZ/software-testing-
                                                               a good job of explaining why these types of
   <u>perspectives</u>
                                                                testing are needed.
    Testing would be important for scalability, handling
   high traffic, and performing the exact requirements
                                                               Types of testing listed make sense for the project
   and needs. Each component will be tested for
                                                               (with at most one exception), but the justification
   scalability and v & v thorugh unit and module testing.
                                                               does not do a good job of explaining why they are
   The system as a whole will also be tested for
                                                               necessary.
   performance with system testing. And finally, to test
   for meeting requirements and client needs it will be
                                                                 Types of testing listed make sense for the project
   tested through acceptance testing live, with users,
                                                               (with at most one exception), but the justification
   especially those who are familiar with the software.
                                                               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
                                                             RUBRIC
   Continuing your role as a quality lead or technical
   lead for the project. Write a few examples of test
                                                             Do the test cases or narrative provided make sense
   cases or a descriptive narrative for what you expect
                                                             relative to the project at hand?
   the testing team to use when testing this product.
   Please refer to the "Testing and Verification" section
   in module 2. Feel free to make assumptions about
                                                                There are no test cases or narrative
   the functionality of the system to come up with a
                                                                Test cases or a narrative exist, but is either not at
   The system will be tested through acceptance testing
                                                               all clear or completely misses the point of the
   by various users to verify and validate the systems
                                                               assignment.
   functions are performing the same. Users can easily
   visit the site with the same expectations and test the
   site through behavior. Since this is a service based
                                                               Some test cases or a brief narrative appears, but
   system, users with various needs and utilizing various
                                                               only applies to the project in a tangential way (is
   functions can be final verification based on their
                                                               mostly off-topic, hardly related, etc.)
   knowledge of the previous system.
                                                               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.
                                                             O 8 pts
                                                               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
    Comments \ left \ for \ the \ learner \ are \ visible \ only \ to \ that \ learner \ and \ the \ person \ who \ left \ the \ comment.
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Waterfall Models
Incremental Models
Iterative Models

Applying traditional software development models

Video: Phase Gates / Stage Gates

Video: Applying Software Development Models

Quiz: Traditional Software
Development Models
11 questions

Peer-graded Assignment: Project Scenario 1

Review Your Peers: Project Scenario

13 min