✔ Peer-graded Assignment: Project Scenario 2

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project 2

◯ By Anonymous Learner
March 21, 2020   ♡ Like ⚑ Flag this submission

PROMPT

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

- Step 1: Start with analyzing the scenario and **identifying characteristics** of this situation and **specify logic** behind the selection of characteristics. Example: You may identify "User Needs Unknown" as a characteristic based on statement x, y and z in the scenario.
- Step 2: Map the characteristics to **selection of model** and **provide your logic** to make that conclusion. For e.g. you may say that since scenario has x and y characteristic, model A and B would be potential candidate. Additionally, since scenario has characteristic z, model A would be best option.

Project Characteristics:

1. This is a complex project of a big scale, which can be deducted from the following: the institution exists for 50 years, which means that there is a lot of documentation from previous periods; this is a relatively big institution with many individuals reflected in documentation - both employees and students; none of the processes were previously automated and most probably the list of existing processes is significant as well;

2. It's a long term project, which requires proper planning in terms of time and human resources /professionals involved - this can be deducted from the statement that the college wants to automate most of its processes during the next 5 years;

3. There is a benchmark system, i.e. an example of the result that state wants to achieve in terms of automation since the state has been expecting that the college will match other colleges in the country in terms of automation;

4. The Client (college) is interested in the project and will actively participate in its development, since the college leadership hopes to keep the tuition in check and to provide better service to students and faculty;

5. The development resources can be extended when needed, since the college wants to make the project in-house but is ready to invest money to attract external consultants when needed;

6. The Client doesn't know what he needs in terms of automation, so no exact Requirements can be developed;

7. A support team from different departments has been formed, which can be involved as a focus group or potential final users to define college needs in terms of automation;

8. The automation process should be developed in iterations as the client (college) wants to reap the benefit of the automation from early stages (as it is being built) and use the feedback from system users to future automation efforts.

9. There is a list of priorities for the development process, which are: processes that impact the students for e.g. admissions, class registration, grading, learning management system etc. and also privacy and security concerns as the college wants to make sure that systems can't be hacked and only the right people have access to the info.

10. The development team consists of: 5 developers, 3 QA and a Team Lead. Organization had signed a contract with a local company to provided additional resources when needed.

Taking into consideration the above mentioned characteristics, we consider that the best fit for this project will be Agile methods, since there are no clear requirements for the project and also there is high level of uncertainty what exactly should be done and how.

Since the college management wants to benefit from the project implementation from early stages and also since there is already a list of priorities that need to be implemented, the best Agile method to implement would be Scrum, which allows the following:

(1) some valuable product can be delivered from very early stage already,
(2) the feedback from production process can be used for continuous project development and
(3) the list of priorities defined by college management can be used as project backlog already.

Another argument for this model would be that the Client (the college) is ready to be actively involved into the development process and even had created a support group formed by representatives of different departments.

Also, since there is high level of uncertainty about what should be done for process automation, the project management team should apply the Lean Startup method too to define real needs of the client.

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As a focus group for this purpose can be involved the support group created by the client from representatives of different departments since these are the people who work with the whole range (or its biggest part) of college processes and know the best which are or might be the college needs in terms of process automation.

Thus, the best development method to apply would be the combination of two Agile methods - Scrum and Lean Startup. Also, since there is high level of uncertainty about what should be done for process automation, the project management team should apply the Lean Startup method too to define real needs of the client.

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RUBRIC

Did the learner identify "**Vague 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 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
   Identified the characteristic and specified the correct logic

Did the learner identify "**New Technology**" (or something similar) as one of the characteristics and specified the correct logic?

◯ 0 pts
   Didn't identify this characteristic

◯ 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 '**The IT department has lot to learn in terms technology to build this system.**'

● 2 pts
   Identified the characteristic and specified the correct logic

Did the learner identify "**Need to deliver value early**" (or something similar) as one of the characteristics and specified the correct logic?

◯ 0 pts
   Didn't identify this characteristic

◯ 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 '**College wants to reap the benefit of automation as it is being built and use feedback from system users to guide future agutomation efforts**'

● 2 pts
   Identified the characteristic and specified the correct logic

Did the learner identify "**Clients or Business available to work closely with development team**" (or something similar) as one of the characteristics and specified the correct logic?

◯ 0 pts
   Didn't identify this characteristic

◯ 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 '**College has formed a group from various departments of college that will help define and drive the development. This group will work closely with IT department on this effort.**'

● 2 pts
   Identified the characteristic and specified the correct logic

Did the learner select the right model for the scenario and provided the correct logic

◯ 0 pts
   Learner selected a model that may be very unnecessary for this situation like V-Model, Sashimi or Waterfall method

◯ 1 pt
   Learner selected the model that will work but is not the preferred model e.g. "Unified Process"

◯ 2 pts
   Learner selects the right model – Agile Model

◯ 3 pts
   Learner selects the right model and right variation of it which could be scrum in this case.

● 4 pts
   Learner selects the right model and specify the right logic behind the selection: Need to iterate due to 1) Unknown needs 2) Unknown Technology 3) Need to deliver value earlier. Since business is available to collaborate closely with development team, it validates one of the assumption before using agile methods

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

◯ 1 pt
   Little details

◯ 2 pts
   Enough Details

● 3 pts
   Enough detail with additional and out of the box / creative response

Any other open feedback for this question?

┌────────────────────────────┐
│ ok   │
│   │
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PROMPT

For the selected model, take us through a simulated / fictitious journey on how this project will be done all the way from requirements to deployment. You are free to make up characters as you feel appropriate to fit your story. Please watch the video on Applying software development models to get an idea. The video stays at high level. 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.

1. The project development team meets for project planning and defines list of existing requirements, already presented by the client.

2. During the planning period the development team also makes a list of assumptions on what the client might need in terms of process automation. This assumptions will be verified/tested with the support team by applying Lean Startup method and when confirmed as valid and/or necessary will be added to the project backlog.

3. After defining the project backlog the team starts the first sprint and defines the sprint backlog that they are going to start with.

4. While development team works on the sprint, other responsible team verifies with the support team the assumptions to transform them into project requirements or to decline.

5. After finishing the first sprint, the development team seeks for and takes on board the feedback received from the client about the sprint results. This feedback, alongside with the new list of requirements developed with the support team, will form the list of new project backlog.

6. When starting the next sprint the team will select the next sprint backlog to work on. At the same time the dedicated team will continue working with the support group to test assumptions and to define new list of requirements.

7. The next sprint and all the following will continue working with the feedback received after previous development efforts and the requirements developed by the dedicated team in collaboration with the college support team.

This formula will be applied till the end of the project. Whenever the team will need some external expertise to define further requirements or to involve more members of the development team they will invite external consultants.

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
   The story supports the model selected

◯ 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.

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