Final Project
CS-250

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Explain the various roles on a Scrum-agile Team by identifying each role and describing its importance.

Roles: In a Scrum-agile team, the Product Owner is in charge of prioritizing features that are in line with business objectives; the Development Team is in charge of delivering product milestones; and the Scrum Master is in charge of facilitating communication and guaranteeing that Scrum principles are followed (Schwaber & Sutherland, 2017).

Importance: The Development Team's dedication drives successful implementation, the Product Owner makes sure the product satisfies business goals, and the Scrum Master encourages cooperation and removes obstacles, all of which work together to make the team successful(Schwaber & Sutherland, 2017).

Explain how the various phases of the SDLC work in an agile approach. Be sure to identify each phase and describe its importance.

Phases: There are four phases in the Agile SDLC:

Planning: involves setting priorities and project goals.

Implementation: Testing and coding in accordance with the plan.

Review: Getting input on the features that have been put into use.

Retrotrospective: Considering the procedure and making changes (Schwaber & Sutherland, 2017).

Importance: Planning establishes the course; implementation carries out the strategy; review guarantees stakeholder input; and retrospective promotes ongoing development (Schwaber & Sutherland, 2017).

Describe how the process would have been different with a waterfall development approach rather than the agile approach you used. For instance, you might discuss how a particular problem in development would have proceeded differently.

Waterfall method: The stages in a waterfall method are sequential and proceed in a linear fashion. Before going on to the following phase, each step needs to be finished.

Differentiation in Solving Problems: For example, Waterfall would probably have to go back to the planning stage if a need changed in the middle of the project, which might result in delays and higher expenses. Agile, on the other hand, permits flexibility, allowing modifications to be added in the upcoming sprint without affecting the project's overall workflow (Sommerville, 2011).

Explain what factors you would consider when choosing a waterfall approach or an agile approach, using your course experience to back up your explanation.

Factors: Project complexity, requirement clarity, and change adaptability are some of the factors that influence the decision between Waterfall and Agile.

Learnings from the Course Experience: We discovered that Agile is better suited for projects requiring regular stakeholder feedback and changing needs. When changes are anticipated to be small and requirements are well-defined, waterfall development may be more suitable (Boehm, 1988).

Sources

Sutherland, J., and Schwaber, K. (2017). "The Scrum Guide.

Sommerville, I. (2011). "Software Engineering" (9th ed.).

Boehm, B. W. (1988). "A Spiral Model of Software Development and Enhancement."