**Assign 10**

**Due Date: 04/25/2021 11:59pm Total points: 3**

Write a paper to reflect on your understanding of project management after studying the attached 3 research papers, power-point slides, and the lecture recordings. Compare and contrast the project management approaches in the plan-based and agile-based projects. What have you learned about the comparison of popular software project management tools?

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**Deliverable:**

Project Management is the process of planning and controlling system development within a specified time with minimum costs and the right functionality. However certain things must be considered when planning a project. Scope, size of team, budget, and tools used must all be considered when considering project management. A project can go about in many different ways for example, it can take more of a agile approach or an project management approach.

During project management, you can use project management tools to help identify all tasks, their sequence and estimate time to complete each one. One example of a project management tool is a Gant chart. A Gant chart may be used to help plan out a project and its requirements. Firstly, you identify the task by classifying by its type. Next you identify how long the task is going to take. Finally, you identify the relationship that each task has, and which tasks are dependent on each other. As you keep going you chart your progress and update it to see how the progress is going. It is very crucial to make sure that it gets updated as the project goes along so that it stays organized.

A project can be done in an agile approach. This is an approach that is done in iterations and evolves as a project goes on. It isn’t as planned out initially, however, it is very easy to go back and make changes too. One example of this is PERT. PERT (Project Evaluation and Review Technique) – is used to plan out a project on a very large scale. It was developed in the 1950’s to reduce the costs and time of a project. It is event oriented and takes a probabilistic approach. This approach keeps time as a variable with represents the planned resource application along with performance application. In this approach it has high precision time estimates. Usually, it has more than one estimate, being around three-time estimates. It focusses on repetitive activities. Overall, PERT is very beneficial in large scale activities in comparison to a more agile approach.

A project can be done in plan-based approaches. This is where projects are planned out step by step approach. If a project is changed in anyway then the project will suffer and it will be difficult to make changes. One example of this is CPM. CPM (Critical Path Method) – is used to plan out, scheduling complicated bus routine activities. It was developed in the late 1950s and was used for planning, scheduling, coordination, and control activities in a project. It is very activity oriented and deterministic. If any activity is delayed in this project, the entire project is going to suffer. In this project it only has one time estimates. Reasonable time estimates. It focuses on repetitive activities.