Research the Waterfall methodology. Outline the history of the methodology. Provide one business scenario where this methodology might still be beneficial. Provide the rationale for your answer. Comment on at least two of your classmates' posts.

The Waterfall method is a breakdown of activities in a linear sequential phase. It consists of six stages: requirements analysis, design, implementation, verification, integration, and maintenance. Each phase is dependent on the deliverables of the previous phase. The first known presentation of these linear phases was held by Felix Lorenzo Torres and Herbert D. Bennington in 1956. It did not gain popularity until 1970 when Winston W. Royce coined the term Waterfall for its description in a paper titled “Managing the Development of Large Software Systems”. He then went on to state that the model was risky and invited failure, then added suggestions to improve it. His paper began to be misinterpreted as an endorsement for the sequential method therefore it being called the Waterfall methodology. After this it gained popularity in the 70’s and 80’s especially with large projects within the defense, aerospace, and government systems. With the growth of technology in the 90’s and 00’s, this methodology was seen as too rigid and slow. It is still used widely today, especially in fields that require high stability, predictability, and compliance. One of such industries that this methodology is still used is the healthcare industry. Because the methodology is straight forward, it is still seen as the top project management system used in healthcare systems. Because of its rigid and straightforward planning, each phase gets mapped out with expectations, and each step is completed before moving on to the next. An interesting thing I read was that as technology has progressed, project managers have been mixing the waterfall methodology with agile techniques to speed up the process a bit, while maintaining transparency, security, and cost effectiveness within a project.

References:

Combining Agile and Waterfall Improves the Drug Development Process. (n.d.). DMI. https://dminc.com/blog/why-combining-agile-and-waterfall-improves-the-drug-development-process/

Methodologies, A. &. W. (n.d.). How did Waterfall methodology emerge from the software engineering field? www.linkedin.com. https://www.linkedin.com/advice/3/how-did-waterfall-methodology-emerge#:~:text=The%20term%20Waterfall%20was%20first,verification%2C%20integration%2C%20and%20maintenance.

ProspHire, & LBodnarchuk. (2022, September 6). The Importance of Project Management in Healthcare: 5 Methodologies Explained. ProspHire. https://www.prosphire.com/blog/the-importance-of-project-management-in-healthcare-5-methodologies-explained/#waterfall

Wikipedia contributors. (2023). Waterfall model. Wikipedia. https://en.wikipedia.org/wiki/Waterfall\_model