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Changes to requirements or design are difficult to accommodate once the project is underway, as the process assumes all requirements are known upfront. Risk Management: Risks are addressed during the early stages of the project, with preventive measures identified and planned. Well-Suited for Stable Requirements: It is best suited for projects where requirements are well understood and unlikely to change significantly. Advantage of Waterfall Methodology: Easy to Understand: The waterfall methodology is easy to understand as it follows a linear sequential process that makes it easy for the team to understand the project requirements. Predictability: The waterfall methodology provides predictability, as the project's scope, budget, and timeline are determined at the beginning of the project. Documentation: The waterfall methodology requires extensive documentation of the project's requirements, which can help in future maintenance and updates. The Design phase is more methodical and well-structured before any software works on the same. Clear project phase helps to clearly define the dependency of the team's work. Disadvantage of Waterfall Methodology: Lack of Flexibility: The waterfall methodology is rigid and lacks flexibility, making it challenging to make changes in the middle of the project. Inefficient: The waterfall methodology is inefficient, as each phase must be completed before moving on to the next one, which can cause delays in the project's delivery. Client Involvement: The waterfall methodology does not involve the client until the end of the project, which can lead to misunderstandings and dissatisfaction. Risk of time waste due to transition. Extra communication meets overhead during the phase transition. As compared to agile product ownership and engagement may not be as strong. Conclusion Choosing between Agile and Waterfall project management depends on the project's needs. Waterfall is good for projects with clear and stable requirements, offering structured planning and clear milestones. Agile is flexible, suited for projects with evolving requirements, allowing for continuous improvement and faster delivery. Both have strengths and weaknesses, and the choice should consider project scope, timeline, team dynamics, and customer feedback, both methodologies have their strengths and weaknesses, and the decision should be based on factors such as project scope, timeline, team dynamics, and customer requirements.

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