



# SOFTWARE



# METHODOLOGIES

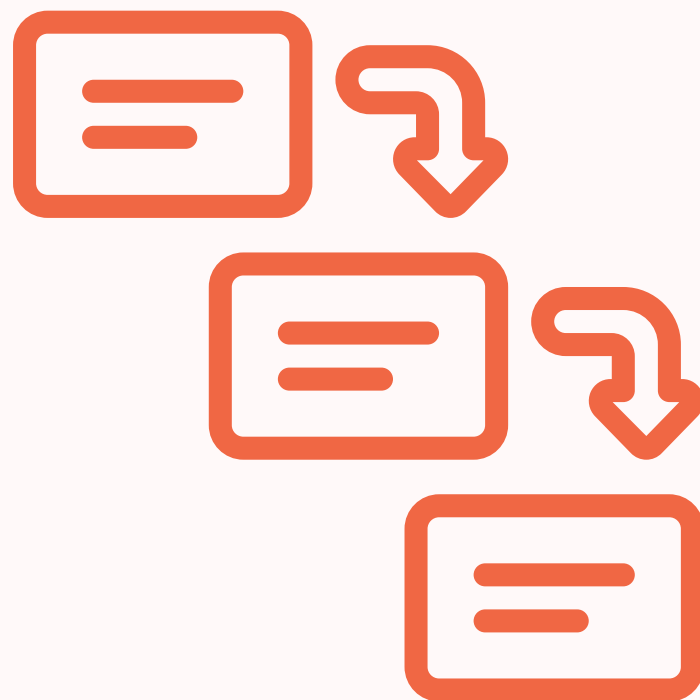
# YOU MUST KNOW





# 1. Waterfall methodology

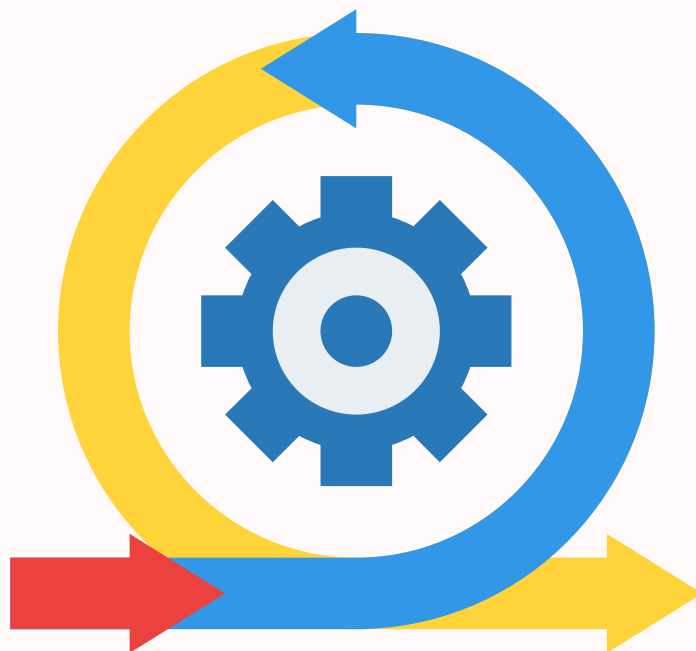
Sequential approach where each phase must be completed before moving to the next, with limited opportunities for changes.





# 2. Agile methodology

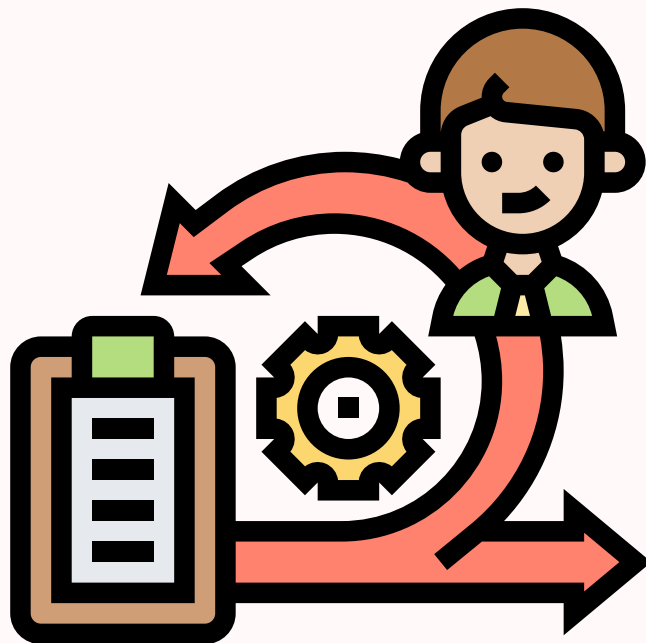
A flexible project management approach that values adaptability, collaboration, and customer satisfaction with continuous feedback loops, in contrast to the traditional sequential approach.





# 3. Scrum methodology

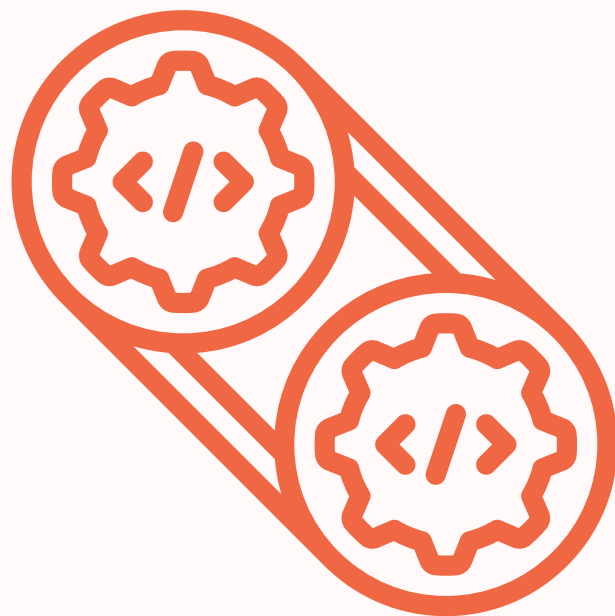
subset of Agile, a team-based framework for project management that emphasizes iterative development and continuous delivery in short sprints, promoting collaboration and communication.





# 4. Lean methodology

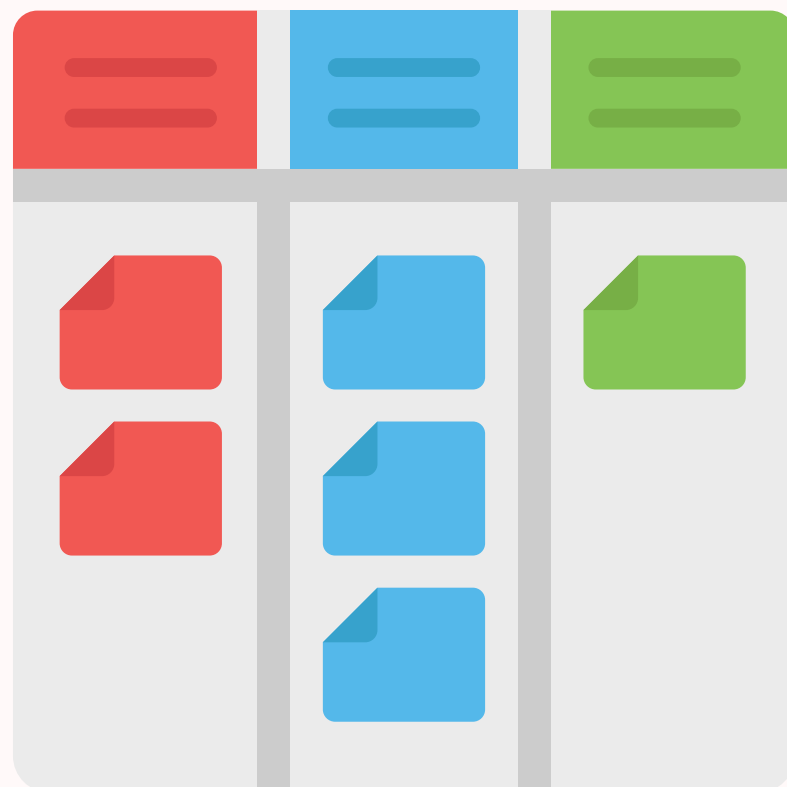
A project management approach that emphasizes continuous improvement and the elimination of waste to maximize efficiency in processes, value for the customer, and team satisfaction.





# 5. Kanban methodology

Visual project management approach that helps track work, visualize progress, and optimize processes with an emphasis on reducing waste, limiting work in progress, and improving the flow of work.





# 6. Six Sigma methodology

A data-driven project management approach that uses statistical methods to identify and eliminate defects in processes, improve quality, and reduce variability.





# 7. Critical Path Method (CPM)

A project management approach that identifies the critical path of activities necessary to complete the project, and highlights dependencies and deadlines to help manage the project's timeline.







# 8. PRINCE2 methodology

A structured project management approach that defines stages, processes, and roles to help deliver projects on time, on budget, and with quality in government and other regulated industries.





# 9. Rapid Application Development (RAD)

An iterative approach to software development emphasizing prototyping, rapid feedback, and close collaboration between developers and customers, resulting in faster delivery of high-quality software.





# 10. Extreme Programming (XP)

An Agile software development methodology that emphasizes delivering working software in short time frames, continuous testing, pair programming, and the use of coding standards and practices to improve software quality.



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