

The Waterfall methodology is a traditional, linear project management approach often used in software development. Sequential Phases: The process is broken down into distinct, consecutive phases—typically requirements, design, implementation, testing, deployment, and maintenance. This limited flexibility can make the Waterfall approach less suitable for projects where requirements may change or evolve during the development cycle. This ensures all project details, requirements, and deliverables are clear upfront, providing a roadmap for the entire project and helping manage expectations. Waterfall is best suited for projects with well-understood, stable requirements, where change is minimal, and a predictable process is essential. Limited Flexibility: Once a phase is complete, revisiting or altering it is often challenging and costly. Predictability: Waterfall's structured approach and upfront planning provide a clear view of timelines, costs, and project scope. The project team gathers and finalizes all requirements upfront, with little expectation for changes later. 2.3.4.5.6.7