

Lab 1

Agile vs Waterfall

Agile development involves working on multiple things at once while waterfall works on one thing at a time. Waterfall is a linear approach that follows the sequence: Conception, Initiation, Analysis, Design, Construction, Testing, and Deployment. Agile works on things in “sprints.” Agile relies on customer involvement. Pros for taking the waterfall approach include the project having clear deadlines, a more disciplined design, better documentation, more clear communication, and it has a easy learning. Cons of the waterfall approach are change is costly, delivery times are slow, it is risky to gather requirements too early, and there is a tendency to neglect testing. Pros of agile are adaptability, immediate user feedback, it involves test-driven development, there is fast, high-quality delivery, and agile focuses on teamwork. Cons of agile are often it leads to procrastination, agile requires skill-dependent teams, there is high time commitment needed from all members, and oftentimes documents get neglected.