

Q1) Agile projects may have less effort required compared to traditional projects. What factors are responsible for this phenomenon?

**Ans.** The main reasons why Agile projects have less effort as compared to typical traditional projects are because:

- **Customer Involvement:** Agile methodologies prioritise customer collaboration throughout the development process. Regular feedback from stakeholders helps in understanding and incorporating changing requirements, ensuring the delivered product better meets customer expectations. This reduces the chances of delivering a product that does not align with user needs.
- **Iterative Development:** Agile projects follow an iterative and incremental development approach. This allows for the continuous delivery of small, manageable increments of the product. It enables stakeholders to see progress regularly, provides room for adjustments, and reduces the likelihood of major rework.
- **Adaptability to Change:** Agile embraces changes in requirements, even late in the development process. Traditional projects may face challenges in incorporating changes once the development has started, leading to more effort in managing change requests. Agile's flexibility allows for a more responsive and adaptive approach.
- **Frequent Communication:** Agile emphasises strong and frequent communication among team members, stakeholders, and customers. This facilitates a shared understanding of project goals, reduces misunderstandings, and enables quicker problem resolution. Effective communication can prevent issues from escalating, saving time and effort.
- **Collaborative Teams:** Agile promotes cross-functional and self-organising teams. Team members collaborate closely, sharing skills and knowledge. This reduces dependencies on specific individuals and minimises delays caused by waiting for specialised resources, streamlining the overall development process.
- **Early and Continuous Delivery:** Agile projects prioritise delivering functional increments early and continuously throughout the development cycle. This enables stakeholders to start using and benefiting from the product sooner, and it allows for early identification and resolution of issues, reducing the effort required for late-stage debugging and rework.
- **Frequent Testing:** Agile methodologies emphasise continuous testing throughout the development process. This helps identify and address issues early on, ensuring a higher quality product. In traditional projects, testing often occurs at the end of the development cycle, leading to potentially more extensive and time-consuming testing phases.
- **Focus on Value:** Agile methodologies prioritise delivering features that provide the most value to the customer. This focus on value helps in avoiding unnecessary work and concentrating efforts on the most critical aspects of the project, ultimately reducing overall effort.