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Course: Software Project Management

Exercise URL: <https://github.com/Jinish-Vaidya/Software-Project-Management/tree/main/Exercise>

Week 1: 26th January to 4th February, 2023

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Exercise 3.2

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

Solution

Agile projects often require less effort compared to traditional projects due to several factors:

1. **Iterative Development:** Agile projects break down the development process into small, manageable iterations. This allows for continuous feedback, which helps in identifying and addressing issues early on, reducing the effort required to rectify them later in the project lifecycle.
2. **Flexible Scope:** Agile projects prioritize delivering the highest value features first and allow for changes in requirements throughout the development process. This flexibility reduces the effort wasted on developing features that may not be necessary or may change later.
3. **Collaborative Approach:** Agile emphasizes close collaboration between cross-functional teams, including developers, testers, designers, and stakeholders. This collaboration fosters communication, reduces misunderstandings, and ensures that everyone is aligned with project goals, thus minimizing rework and effort.
4. **Frequent Deliveries:** Agile projects aim to deliver working software in short, frequent iterations. This allows stakeholders to see progress regularly and provide feedback, reducing the likelihood of major rework and effort required at the end of the project.
5. **Continuous Improvement:** Agile promotes a culture of continuous improvement through regular retrospectives. Team members reflect on their processes and identify areas for improvement, leading to more efficient workflows and reduced effort in subsequent iterations.
6. **Adaptability:** Agile methodologies embrace change and are designed to accommodate evolving requirements and priorities. This adaptability reduces the effort required to manage changes and ensures that the project remains aligned with stakeholders' needs.
7. **Reduced Documentation Overhead:** Agile values working software over comprehensive documentation. While documentation is still important in Agile projects, the emphasis is on delivering functional software rather than extensive documentation, reducing the effort spent on documentation tasks.
8. **Early Detection of Issues:** Agile projects typically incorporate continuous integration and automated testing, allowing for early detection of defects. Addressing issues early in the

development process reduces the effort required to fix them later and improves overall software quality.