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**Exercise URL:** https://github.com/nidhip6/SOEN-6841/blob/main/Week2\_exercise\_chapter3\_nidhi.docx

**Week 2(Exercise: Chapter 3)**

**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 demand less effort than traditional projects for several reasons:

* **Iterative Development:** Agile breaks down the process into small, manageable iterations. This enables continuous feedback, helping to identify and resolve issues early, which reduces the effort needed to fix them later in the project.
* **Flexible Scope:** Agile prioritizes delivering the most valuable features first and allows for changes throughout development. This flexibility prevents wasted effort on unnecessary or changing features.
* **Collaborative Approach:** Agile encourages close collaboration among cross-functional teams, including developers, testers, designers, and stakeholders. This collaboration improves communication, reduces misunderstandings, and keeps everyone aligned with project goals, minimizing rework.
* **Frequent Deliveries:** Agile focuses on delivering functional software in short, frequent cycles. This allows stakeholders to regularly see progress and provide feedback, reducing the likelihood of major rework at the end.
* **Continuous Improvement:** Through regular retrospectives, Agile promotes ongoing improvements. Teams reflect on their processes and adjust, resulting in more efficient workflows and reduced effort in future iterations.
* **Adaptability:** Agile methodologies embrace change, easily accommodating shifting requirements and priorities. This reduces the effort needed to manage changes and ensures the project remains aligned with stakeholder needs.
* **Reduced Documentation Overhead:** While documentation is still important in Agile, the focus is on delivering functional software rather than extensive documentation, reducing time spent on documentation tasks.
* **Early Issue Detection:** Agile projects often use continuous integration and automated testing, leading to early identification of defects. Fixing issues early in the process reduces the overall effort and enhances software quality.