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* Assignment on Agile Approaches and Comparative Analysis

methodologies are frameworks used for and incremental project management Iterative software development. Below is a comparaanalysis of prominent Agile approaches based on their working principles, applicability and cost effectiveness.

Agile	Structure	Flexibility	Cost efficiency	Best fit for
Approach Scrum	Highly Atructured	Moderate	High for iterative delivery	
Kanban	Flexible	Fligh	Low setup, moderate tools	Operational and maintenence task
ХР	Structured and technical	High	High in quality	Fast - paced, dynamic projects
Lean	Minimalist	Moderate	Moderate to high	Efficiency focused projects.
FDD	Atructured	Low	High for Large projects	Feature - intensive development.

1. Scrum

Applicability:

. Best for projects requiring flexibility and frequent deliverables.

How it works:

- · Follows an iterative approach with predefined roles (Scrum Master, Product Owner, Team)
- · Work is divided into sprints (2-4 weeks)

2. Kanban.

Applicabity:

· Suitable for maintenence, support or ongoing delivery projects.

How it works:

· Visualizes tasks on a Kamban board, emphasizing Continuous delivery.

Extreme Programming (xp)

Applicability:

· Ideal for teams working on software - intensive projects requiring high-quality code.

How it works:

Emphasizes technical practices like Pair Programming, Test-Driven Development, and continuous itstegration.

- 4. Lean Software Development
- Applicability:
- · Effective for projects where efficiency is critical. How it works:
- ·tocuse on eliminating waster optimizing workflow
- and delivering value.
- 5. Feature Driven Development (FDD)

Applicability:

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2. Buld a.	feature 10 100	del .igi.i	Lexible	Kanbar.
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Efficiency focused project	or dead and	Pic-lerate	Minimalist	Lean
Feature - intensive development	thigh for Large projects	لوما	Structured	FDD