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Different agile methods

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Agile

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# Agile methods

## Agile Scrum Methodology:

Scrum is a simple Agile Project Management framework suitable for iterative and incremental projects. It has gained popularity due to its simplicity, sustained productivity, and ability to blend various underlying approaches from other agile methods.

The Scrum process involves key elements:

Product Owner: Creates a wish list known as a product backlog.

Scrum Team: Takes a part of the wish list (Sprint Backlog) and works on its implementation during a sprint of 2-4 weeks.

Scrum Master: Keeps the team focused on targets.

Daily Scrum: A meeting to track progress during the sprint.

Review: At the end of the sprint, the team completes tasks with a review, feedback, and starts a new sprint.

## Lean:

Lean is an iterative, agile methodology focused on delivering customer value through value stream mapping. It emphasizes principles like uninterrupted improvement, respect for people, waste elimination, rapid delivery, knowledge-making, and deferred commitment.

Lean empowers individuals and small teams, prioritizing efficient resource implementation for maximum productivity.

## Kanban:

Kanban is a visual workflow management approach used within Lean teams. It visualizes and manages the product-making process, emphasizing continual delivery without stressing the entire software development life cycle. Key principles include workflow automation, limiting work in progress, and boosting flow.

Kanban encourages collaboration, continuous learning, and improvement through defining the best team workflow.

## Extreme Programming (XP):

Used in conjunction with Scrum, XP focuses on enhancing customer satisfaction by delivering what customers need immediately. It emphasizes regular releases, precise development cycles, and practices like code review, pair programming, and frequent customer communication.

XP is based on four values: uniformity, simplicity, communication, feedback, and endurance.

## Crystal Methodology:

Crystal Methodology comprises small agile methodologies like Crystal Clear, Crystal Yellow, and Crystal Red. Each has its framework. It categorizes projects based on team size, system criticality, and project preferences.

Crystal focuses on interaction, people, expertise, communication, skills, and community, tailoring its approach to project characteristics like team size and system criticality. (Tyagi, 2021)

# Preferred method

## Agile Scrum Methodology:

Choosing Scrum for our team of five members is a smart move because it's simple, efficient, and encourages teamwork. With clear roles like Product Owner, Scrum Team, and Scrum Master, it keeps things organized. The short sprint cycles and daily meetings help us stay on track and quickly adapt to changes. Scrum's straightforward approach makes it easy for us to communicate, improve continuously, and respond swiftly to project needs.

# Bibliography

Tyagi, N. (2021, June 16). *7-types-agile-methodologies*. Retrieved from analyticssteps: https://www.analyticssteps.com/blogs/7-types-agile-methodologies