AGILE METHODOLOGIES

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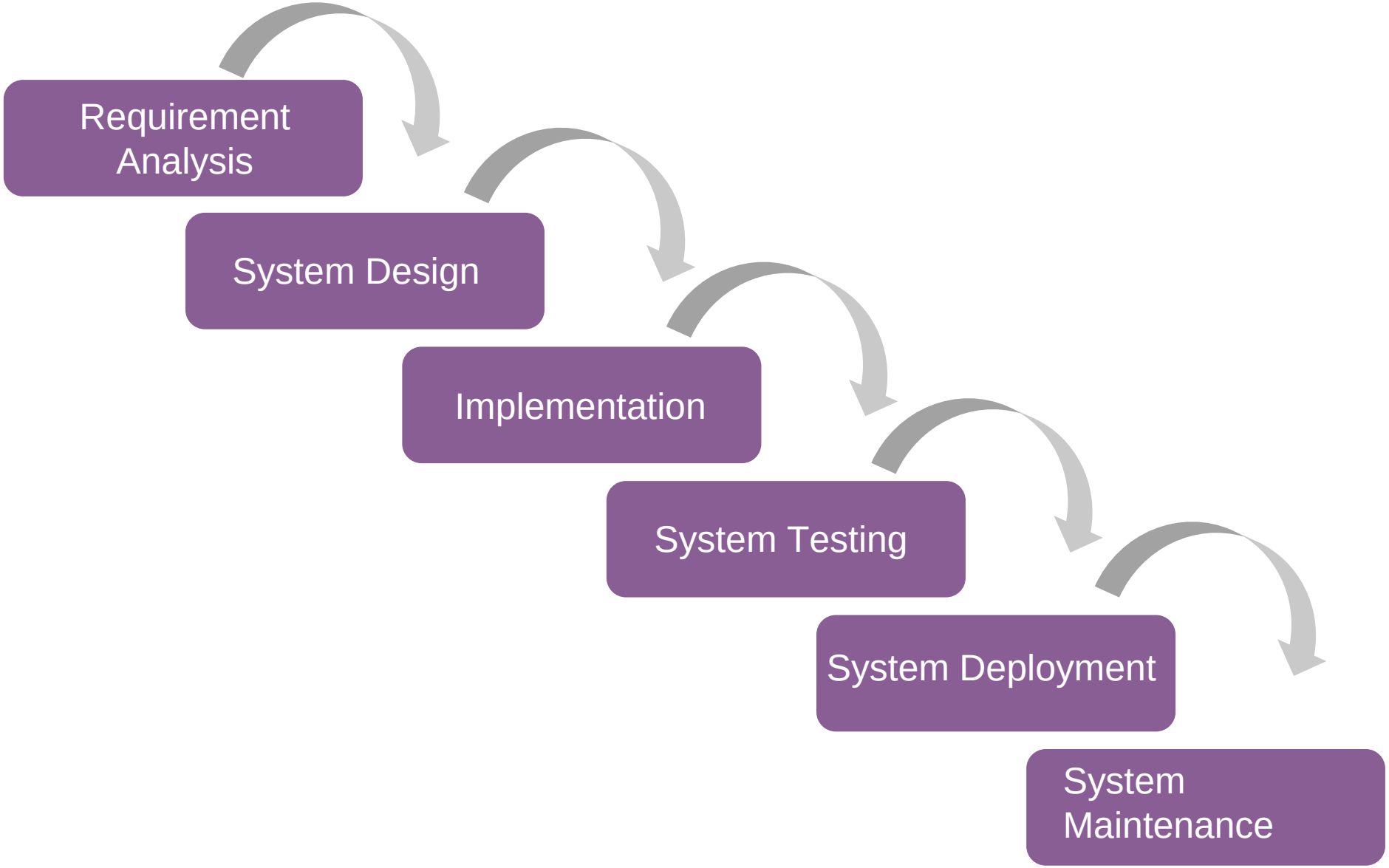
Watefall Model (SDLC)



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Agile Manifesto

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Agile Manifesto

Released in February 2001,at The Lodge at Snowbird ski resort in Wasatch mountain of Utah

A document that contains the core values and principles of agile software development.

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Four Core values of Agile Manifesto

Agile Methodologies	Traditional Methodologies
Individuals and interactions	Processes & Tools
Working software	Comprehensive documentation
Customer collaboration	Contract negotiation
Responding to change	Following a plan

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Twelve Principles of Agile Manifesto

01 Customer satisfaction

02 Early and continuous delivery of software

03 Embrace change

04 Frequent delivery

05 Motivated individuals

06 Collaboration of businesses And developers

07 Face-to-face communication

08 Working software

09 Technical excellence

10 Simplicity

11 Self-organized teams

12 Regularly reflect and adjust the way of work to improve.

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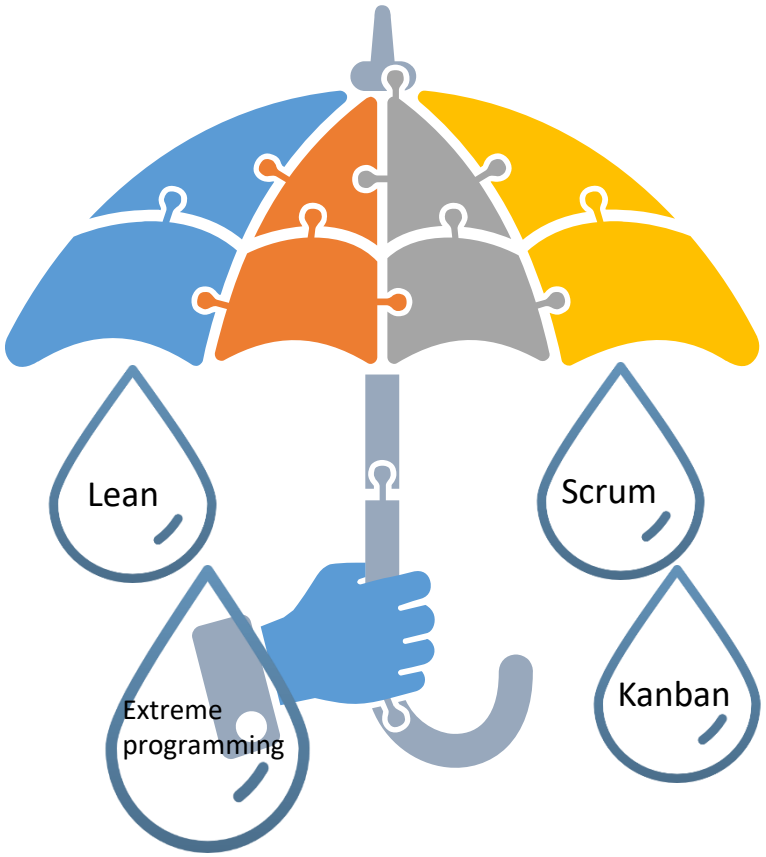
Agile Methodologies

- An umbrella term for a group of technical and project management methodologies.
- Used for developing products and services iteratively.



- Total Product Development is broken up into shorter, time-boxed periods - sprints or iterations.
- At the end of each iteration, there is a shippable product called increment.

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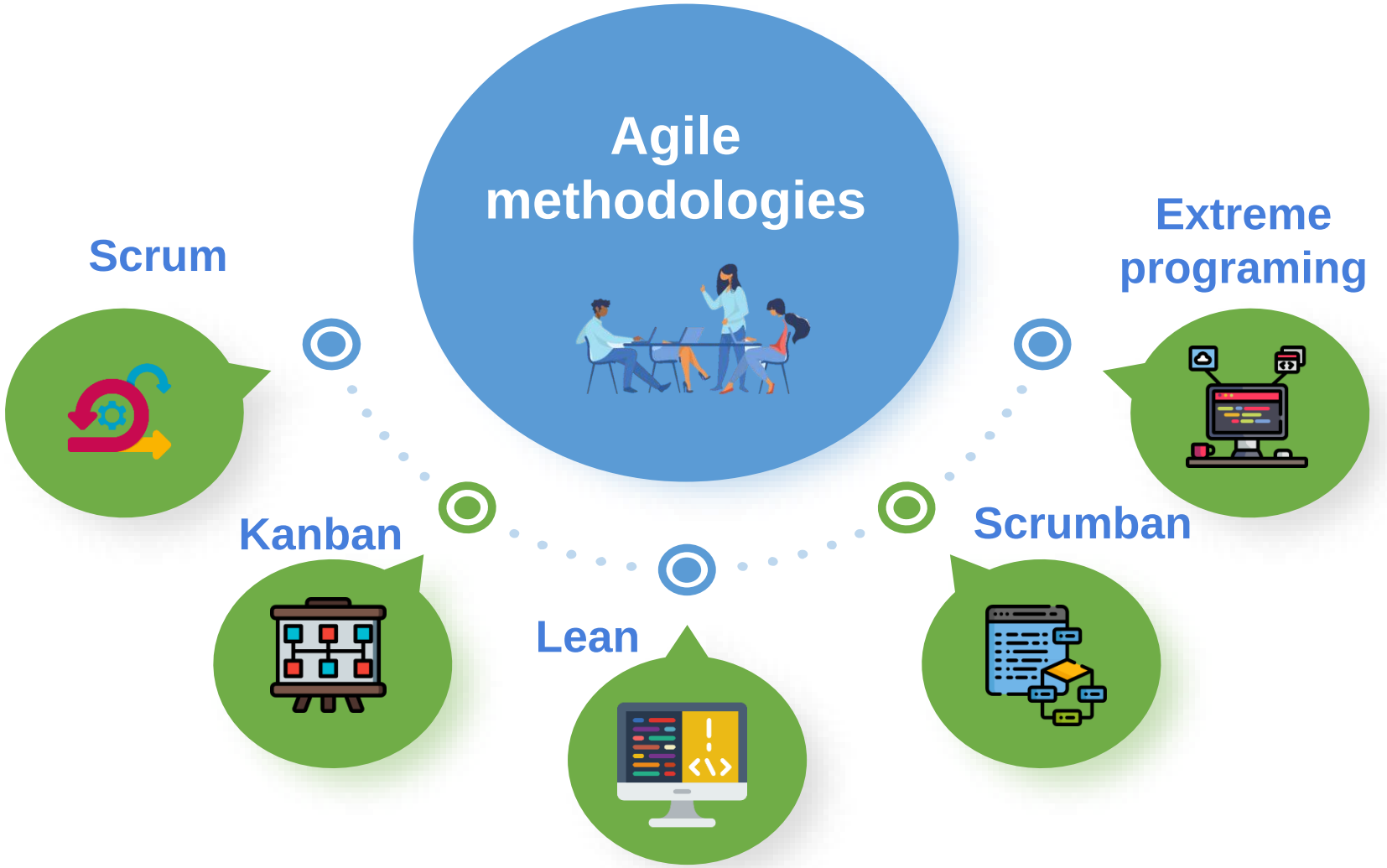
MOST POPULAR AGILE METHODOLOGIES



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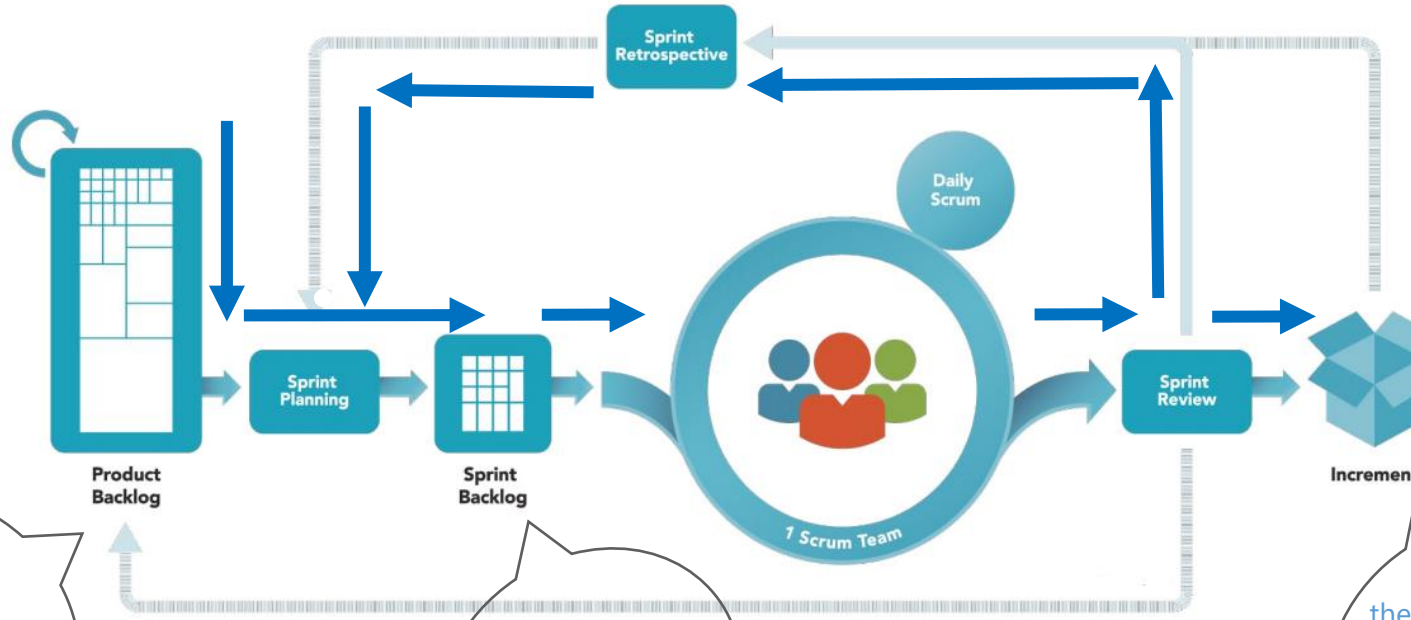
SCRUM FRAMEWORK

A **lightweight framework** for managing and organizing complex software projects.

Helps teams **deliver high-quality products fast and efficiently**.

software products are developed in short **cycles/iterations called sprints.**



a prioritized list of features and requirements for the product

the work to be done in the current sprint

the sum of all the product backlog items completed during a sprint

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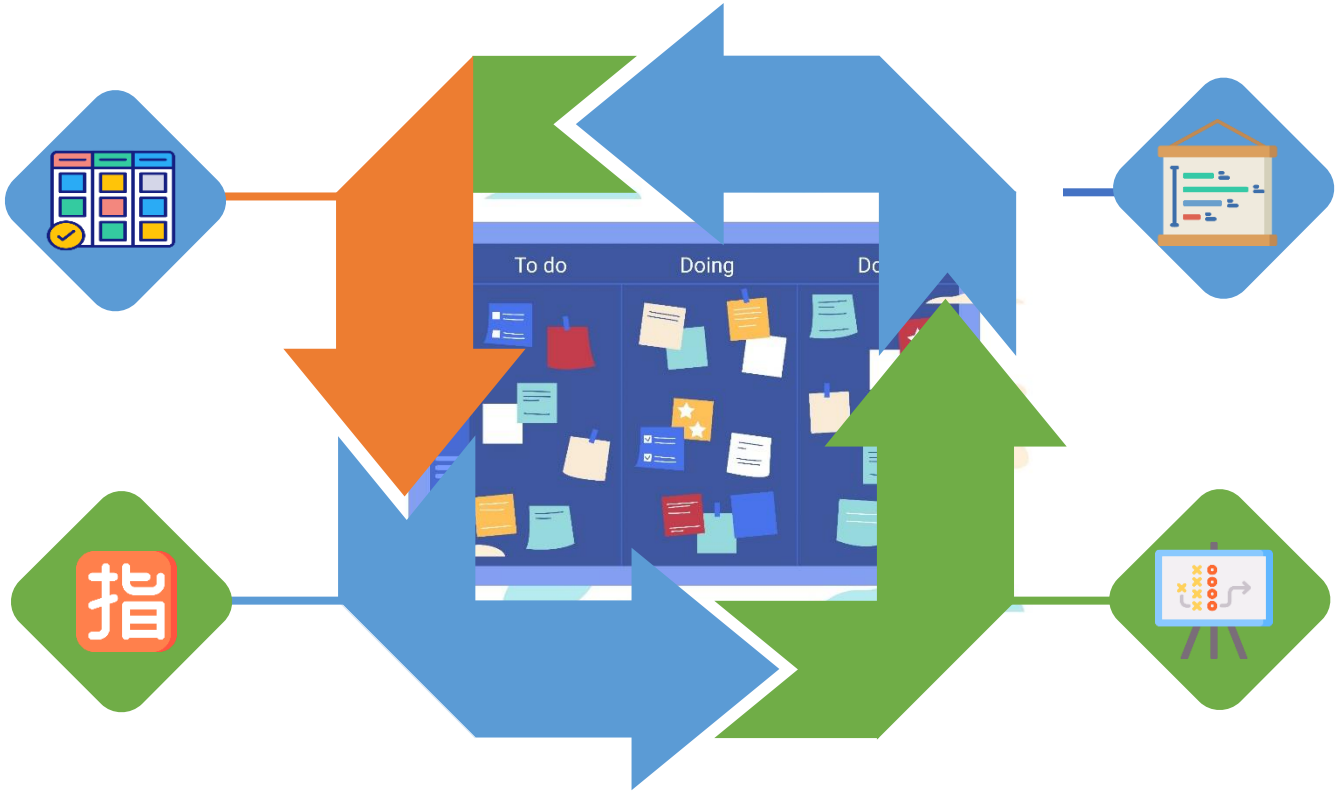
ABOUT KANBAN

- Method for managing and improving workflows.
- It is based on the concept of **"just-in-time" production.**

- Originated in **Toyota in the 1940s.**
- Name Kanban originated from a **Japanese word.**
- "Kanban" meaning "**visual board".**



- Often used in combination with other agile methods, such as Scrum

- work is represented by **cards on a board,** with each column on the board representing a different stage in the workflow.

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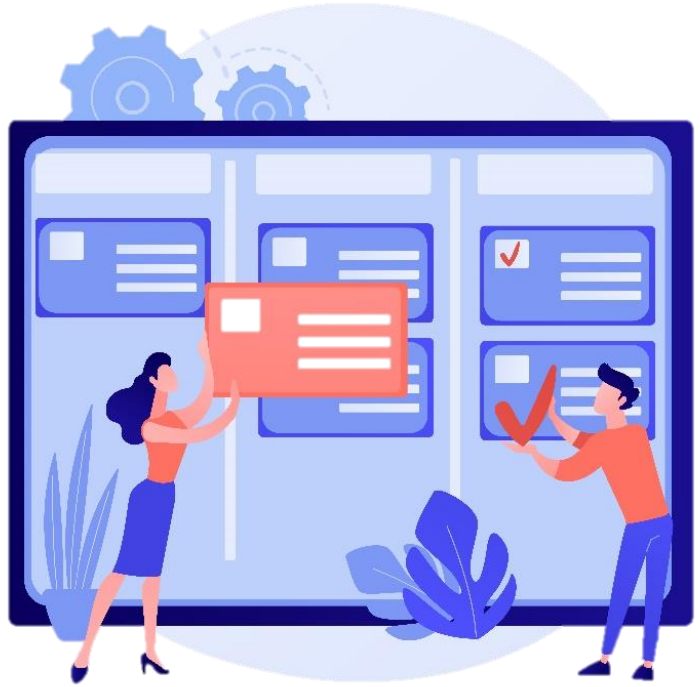
SCRUMBAN METHODOLOGY

A hybrid methodology that **combines** all the benefits of **Scrum and Kanban.**

Enables teams to handle **both incremental and evolutionary changes** in product development.



Allows teams to use the planning and prioritization tools of Scrum, while also utilizing the visual workflow management of Kanban.

Flexible enough to be used for both short-term and long-term projects.

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