Introduction to Agile

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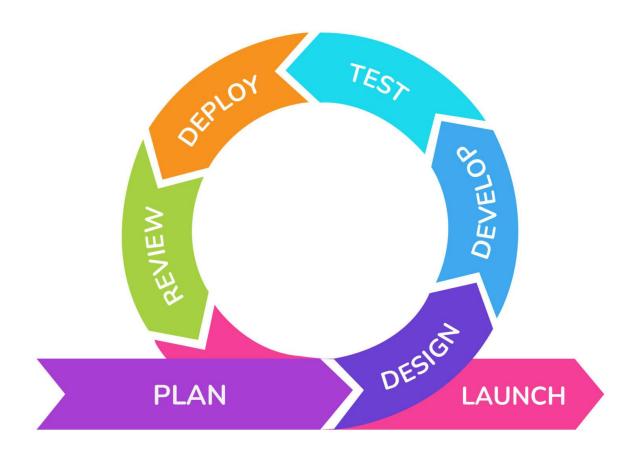
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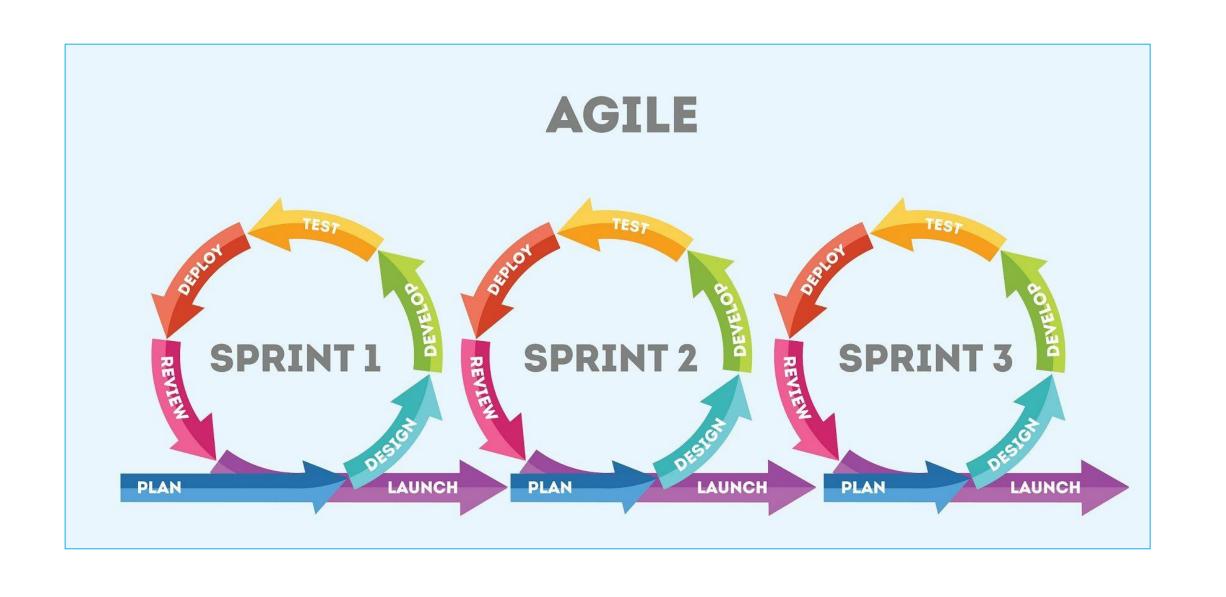
1. Introduction to Agile

What is Agile?

- **Agile** is a mindset and methodology used for software development and project management.
- It focuses on incremental delivery, continuous improvement, and collaboration.
- Emphasizes individuals and interactions, working software, customer collaboration, and responding to change.

AGILE





Agile Manifesto (2001)

4 Core Values:

- 1. Individuals and interactions over processes and tools.
- 2. Working software over comprehensive documentation.
- 3. Customer collaboration over contract negotiation.
- 4. Responding to change over following a plan.
- **12 Principles** include early and continuous delivery, embracing change, sustainable pace, simplicity, etc.

Why Agile?

- More adaptable to change.
- Delivers value to customers faster.
- Encourages team collaboration and accountability.

2. Agile Team and Tools

Agile Team Structure

- Cross-functional: includes developers, testers, product owner, and scrum master.
- Collaborative, self-organizing, and empowered to make decisions.

Key Roles

- Product Owner defines features and prioritizes backlog.
- **Scrum Master** facilitates the process and removes impediments (issue or obstacle or blocker).
- **Development Team** builds the product increment.

Common Tools

- Jira, Trello, Asana for task tracking and sprint planning.
- Confluence, Miro for documentation and collaboration.
- Slack, Teams for communication.
- CI/CD Tools Jenkins, GitHub Actions, etc., for automated deployments.

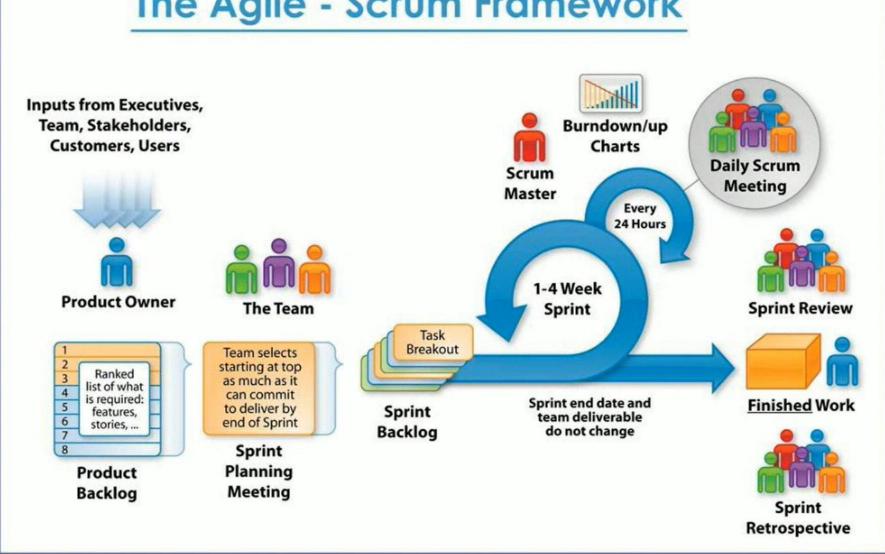
3. Agile Smart Pack

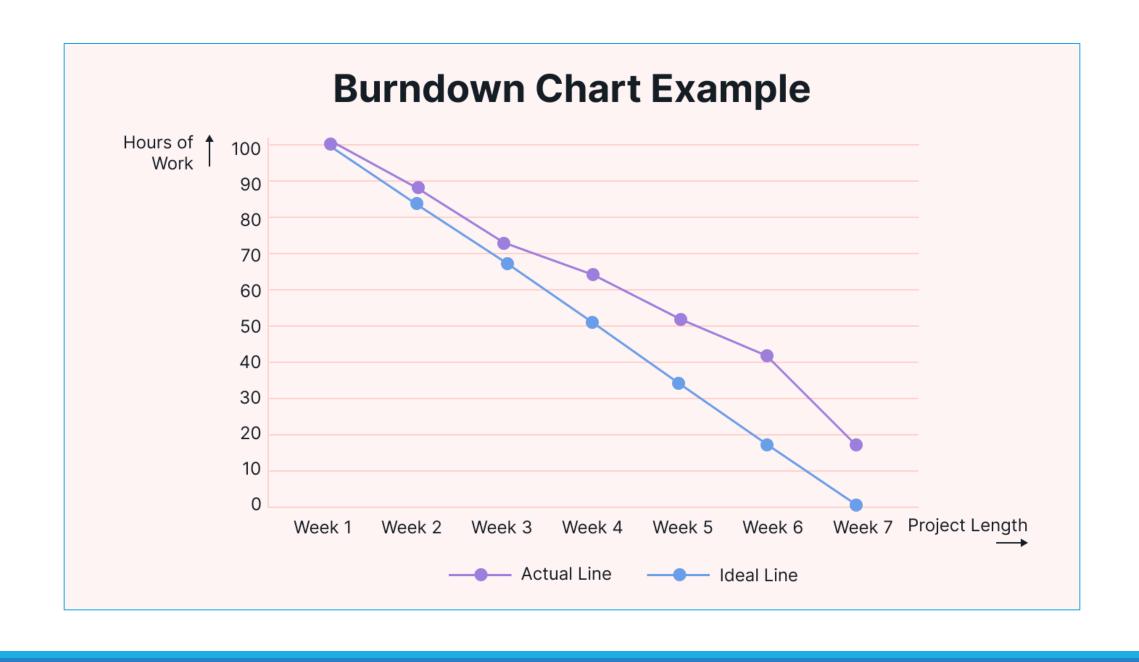
The "Agile Smart Pack" refers to essential Agile practices and frameworks used together for better productivity and efficiency.

Components

- Backlog: Prioritized list of work items.
- User Stories: Descriptions of features from the end-user perspective.
- Story Points: Estimation technique used in Agile.
- Velocity: The amount of work a team can handle during a sprint.
- Burndown Chart: Visual representation of work left in a sprint.

The Agile - Scrum Framework





Frameworks Included

- Scrum Iterative process with sprints (typically 2–4 weeks).
- Kanban Visualize workflow, limit work in progress.
- SAFe Scaled Agile Framework for large enterprises.

4. Agile Rituals

Agile rituals (also called ceremonies) foster team alignment and continuous improvement.

Main Agile Rituals

- Sprint Planning: Define goals and select backlog items for the sprint.
- Daily Stand-up: Quick, daily sync on progress and blockers.
- Sprint Review: Demonstrate completed work to stakeholders.
- Sprint Retrospective: Reflect and improve the team's process.
- Backlog Refinement: Ongoing activity to update and prioritize the backlog.

5. Agile Myths

Common Misconceptions

- "Agile means no documentation" Agile values just enough documentation.
- "There's no planning in Agile" Agile includes planning at every level (release, sprint, daily).
- "Agile is only for software" Agile is used across industries: marketing, HR, education, etc.
- "Scrum = Agile" Scrum is one Agile framework; not all Agile teams use Scrum.
- "Agile means chaos" Agile has structure, roles, and processes.

6. Agile Roles

Key Roles Explained

Product Owner:

- Represents customer voice.
- Maintains and prioritizes the product backlog.
- Ensures the product delivers business value.

Scrum Master:

- Agile coach and facilitator.
- Ensures the team follows Agile practices.
- Removes impediments and promotes collaboration.

• Development Team:

- Cross-functional members who build and test the product.
- Self-organizing and collectively responsible.

• Stakeholders:

- May include customers, executives, users.
- Provide feedback and validate product direction.

Q & A