

Adaptive Software Engineering

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HA-3

1) Scrum is an agile framework used to develop complex products through iterative and incremental practices. It focuses on team collaboration, fast delivery, continuous feedback, and flexibility to change.

Components

A) SCRUM Roles

B) SCRUM Artifacts

C) SCRUM Events



2) Kanban is a method used for managing workflow using visual boards.

A Kanban board is a tool that shows the workflow and status of tasks.

Basic columns:

- TO DO: Tasks waiting to be started
- In progress - Tasks being worked on
- Done - Completed tasks

kanban focuses on visualizing work, limiting work-in-progress (WIP), and improving flow efficiency.

Tools: Trello, Jira, ClickUp, Asana

3) Benefits:

a) Scrum

- clean structure
- predictable delivery
- encourages teamwork and feedback

b) Kanban

- visual tracking of work
- easy to adopt and flexible
- improves workflow efficiency

Challenges:

a) Scrum

- requires training and discipline
- strict roles and ceremonies
- sprint planning overhead

WIP