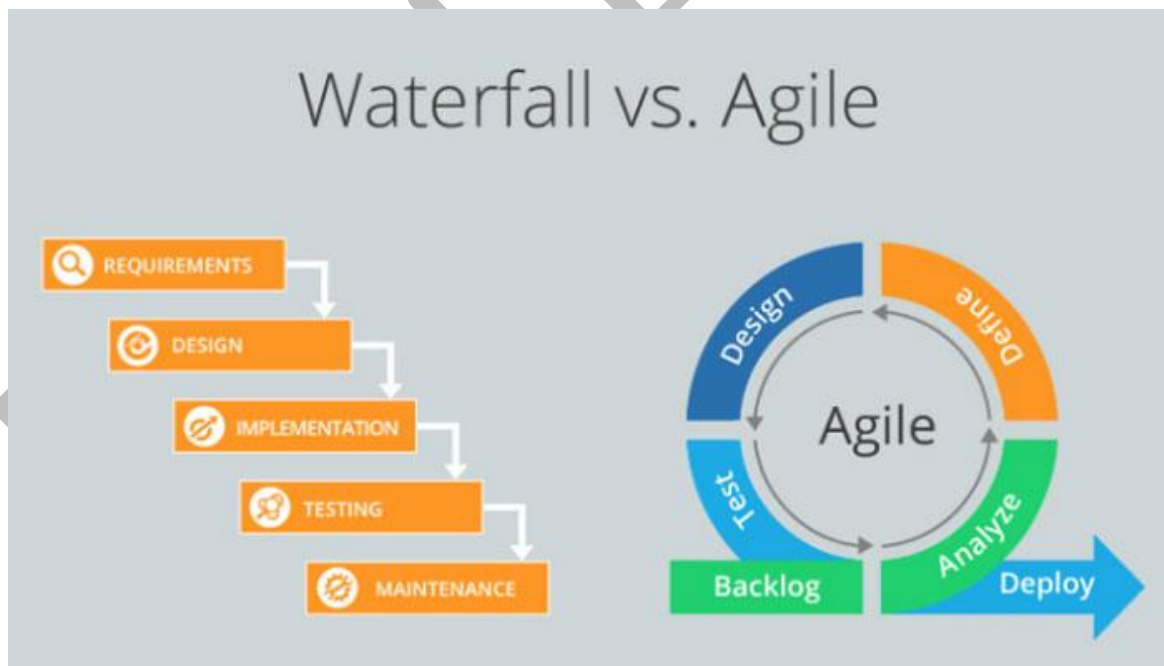# Agile

What is agile ?

Agile software development refers to a group of software development methodologies based on iterative development, where requirements and solutions evolve through collaboration between self-organizing cross-functional teams. Agile methods or Agile processes generally promote a disciplined project management process that encourages frequent inspection and adaptation, a leadership philosophy that encourages teamwork, self-organization and accountability, a set of engineering best practices intended to allow for rapid delivery of high-quality software, and a business approach that aligns development with customer needs and company goals. Agile development refers to any development process that is aligned with the concepts of the Agile Manifesto. The Manifesto was developed by a group fourteen leading figures in the software industry, and reflects their experience of what approaches do and do not work for software development.

OR

A way of project development

Benefit of Agile :

- ➢ Simple Project : Waterfall
- ➢ Complicated Project : Agile
- ➢ Req.Complicated : Agile

What is Scrum :

Scrum is a subset of Agile. It is a lightweight process framework for agile development, and the most widely-used one.

Benefit if Scrum :

- Increase the quality of the deliverables
- Cope better with change (and expect the changes)
- Provide better estimates while spending less time creating them
- Be more in control of the project schedule and state
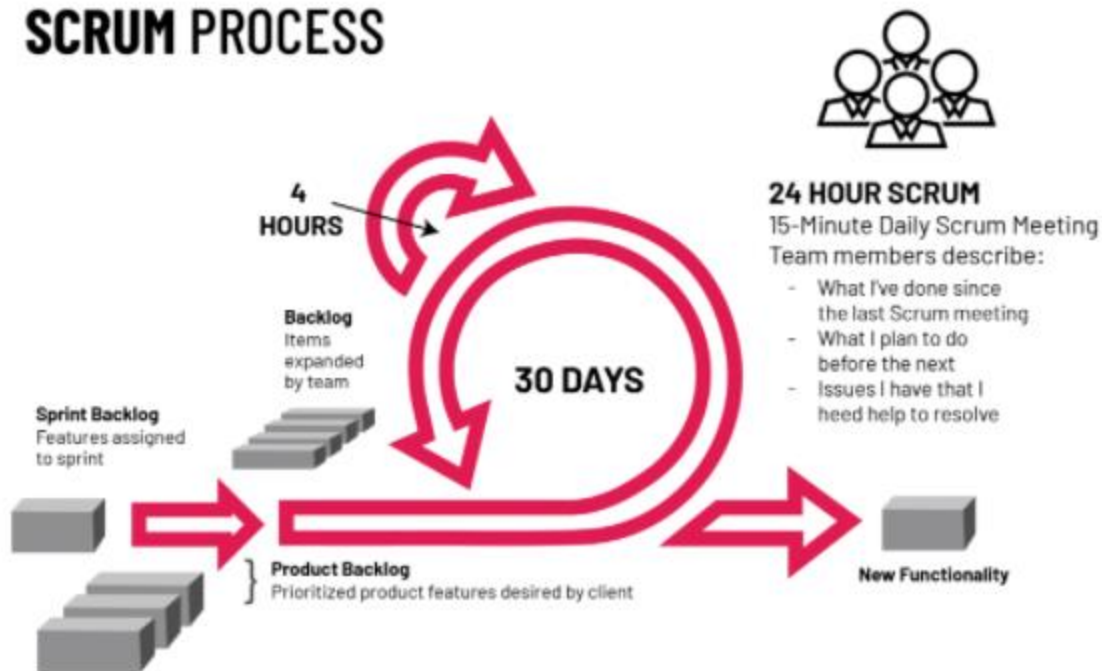
Scrum Component :

Artifact :

    1.Product Backlog

    2.Sprint Backlog

    3.Product Increment

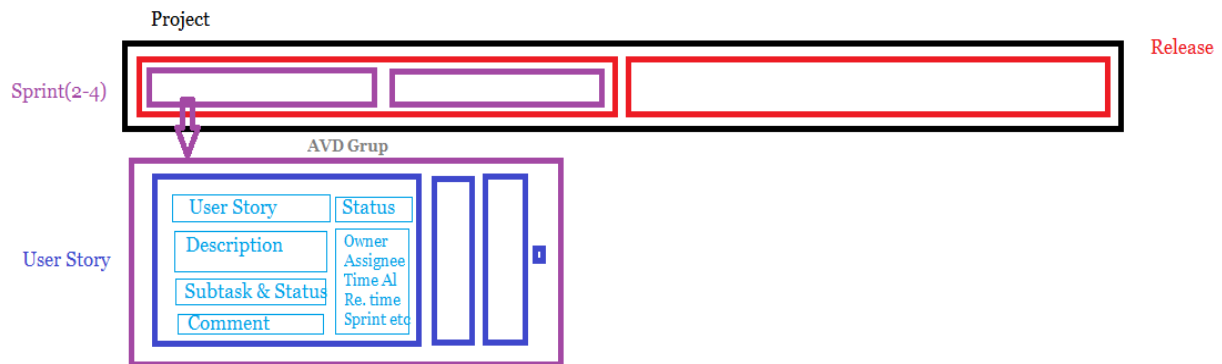**Meeting :**

    1.Sprint Planning

    2.Daily Standup

    3.Sprint Review

    4.Sprint Retrospective

Roles :

    1.Product Owner

    2.Scrum master

    3.Scrum Team

Scrum Framework working flow

Project Release :

Project backlog :

A project backlog is a prioritized and structured list of deliverables that are a part of the scope of a project. It is often a complete list that breaks down work that needs to be completed.

The project backlog helps structure scope and identify business priorities before teams spend too much time planning the details.

For longer projects, teams may not keep the entire work breakdown structure in the project backlog. Instead, it may only focus on what needs to be done during a specific time period.

Sprint :

- ➢ 2-4 WEEK
- ➢ Part of release
- ➢ Close the requirement
- ➢ Plan before starting and review it
- ➢ Need to do Sprint retrospective

Sprint backlog :

The sprint backlog is **a list of tasks identified by the Scrum team to be completed during the** Scrum sprint. During the sprint planning meeting, the team selects some number of product backlog items, usually in the form of user stories, and identifies the tasks necessary to complete each user story.
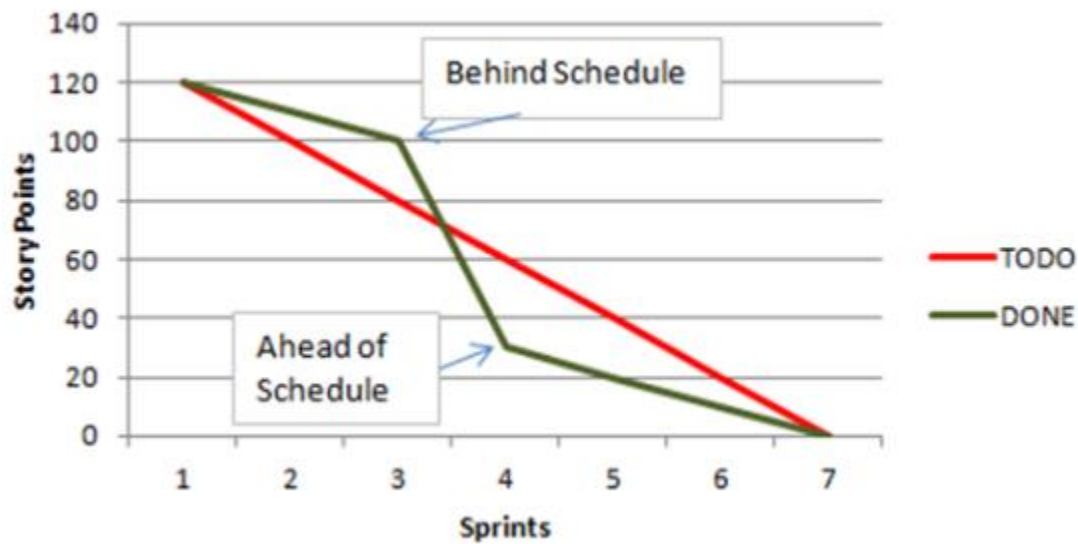
User Story :

- ➢ In each sprint there can be multiple user story
- ➢ Feature , function , requirement

➢ Can update status

Release backlog :

➢ Planned delivery backlog

Burn down chart :

Sprint Review :

Sprint Retrospective :

Daily Scrum :

➢ 15 min scrum
➢ Todo, did and any blocker

Deployment : Project deployment on production cluster
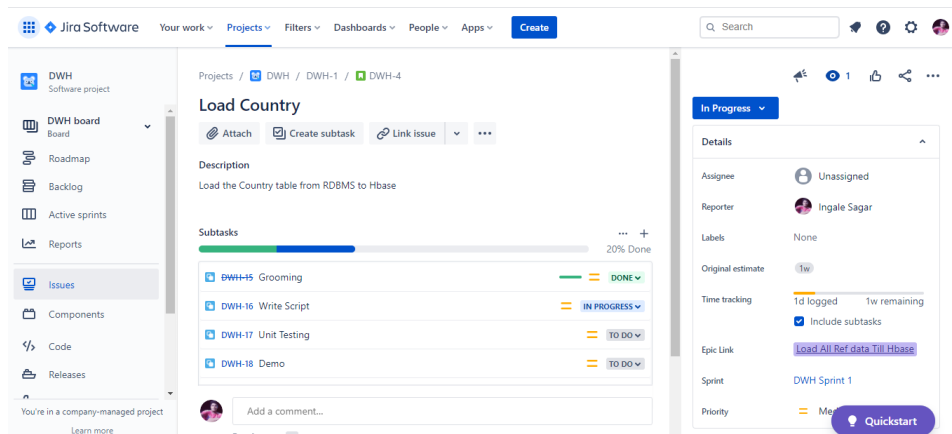
Jira tool for Agile Scrum :
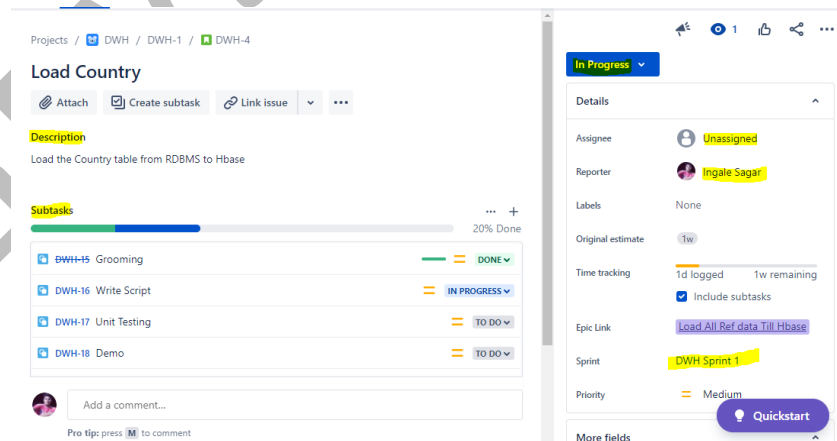
Jira Tool :

Sprint :

User Story :

Sprint backlog :
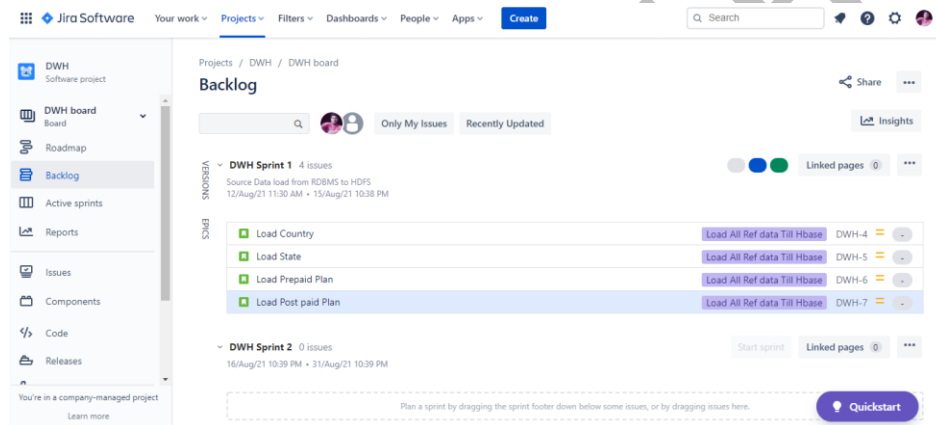
User story and additional options :

Confluence

Confluence is a web-based corporate wiki developed by Australian software company Atlassian. Atlassian wrote Confluence in the Java programming language and first published it in 2004. Confluence Standalone comes with a built-in Tomcat web server and hsql database, and also supports other databases

Benefit :

1. A single place for all your documentation

2. Break down communication barriers

3.Reduce time-wasting context switching
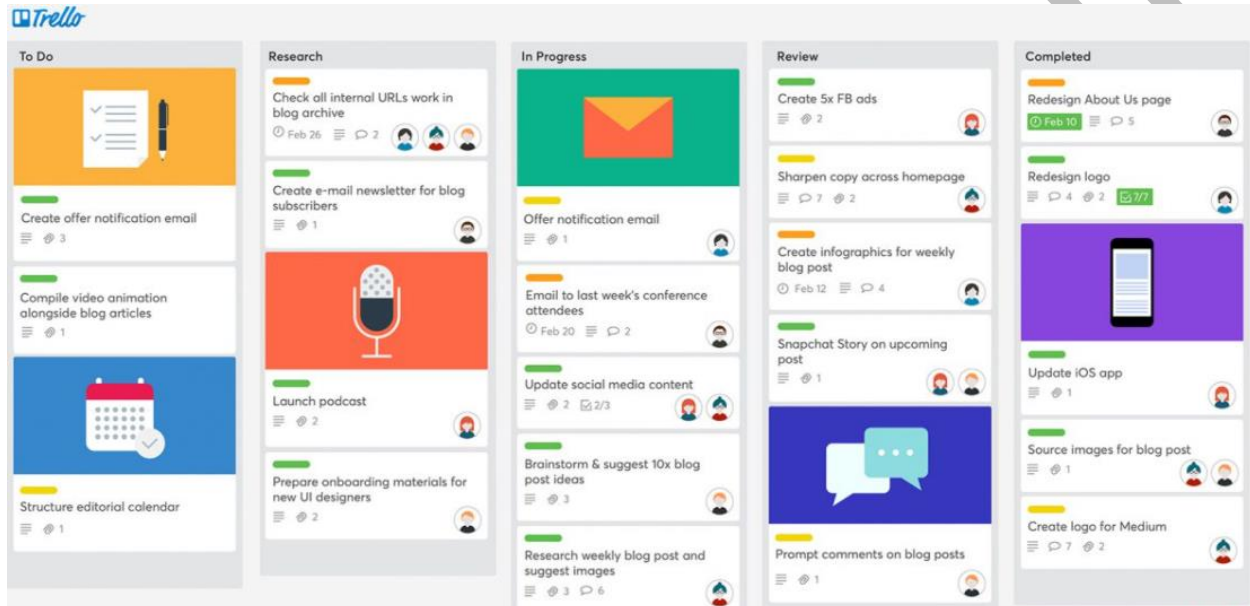
4. Provide visibility into your software projects

Trello

Trello is a web-based, Kanban-style, list-making application and is a subsidiary of Atlassian. Originally created by Fog Creek Software in 2011, it was spun out to form the basis of a separate company in 2014 and later sold to Atlassian in January 2017. The company is based in New York City

**********************************END***