

1) Agile development is an iterative and incremental approach to software development. Instead of big planning, it focuses on small, flexible cycles. It is called Sprints.

→ It helps to deliver the project faster, with better quality.

2) In Agile methods we have baby steps, constant feedback, flexible changes.

→ while in traditional methods we have big upfront plan, sequential phases & less room for changes.

3) Some key principles in Agile development

→ Individuals and interactions over processes and tools which empowers the team.

→ working on software instead of lengthy documentation.

→ customer collaboration over contract negotiation

→ Responding to change over following plan.

4) Significance of iterative dev.

→ Build and ~~can~~ tweak continuously, which helps learning and refining new ideas.

⇒ Significance of incremental dev. 2023/2014

→ Delivers usable features each time, not whole projects at the end.

⇒ In conclusion, Both helps for faster feedback, early value, reduced risk.

5) Customer interaction helps in constant guidance, which improves quality of software.

→ Removes the errors at early stage, which leads to faster software delivery.

→ customer interaction helps engineers to prioritize work in the project.

6) Trello is open-source, user-friendly project management tool specially for Agile teams.

⇒ It provides flexibility, bcz it supports popular tools like Git, Slack and Jira.

⇒ It is customizable, configure features and views to match your team's unique agile practices.

⇒ Community-driven open-source development fosters constant improvement and vibrant user community.

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7) Key features.

→ Visual workflow:- It provides visual workflow of the development that organization and progress tracking.

→ Flexible cycles:- Adapt to any agile methodology with ease.

→ It provides Analytics and reporting for performance insights and optimization.

8) Jira has shared Kanban boards.

→ which helps to see who's working on what.

=> Discussions and comments.

→ It has features where we can leave feedback, ask questions and keep everyone in the loop directly on tasks.

=> It also has @mentions and notifications features.

=> we can connect with Slack, git and other platforms.

9) User stories

→ Capture needs:- Craft clear, concise stories describing what users want

→ Prioritize backlog - Rank user stories based on importance and impact, guiding the team's focus.

⇒ Task management.

⇒ It has visualization features, where we can track the progress.

⇒ Subtasks & checklists.

→ break down complete task into sub task.

⇒ Discussion & comments feature.

→ It has discussion forum where we can comment.

10) Trello helps in planning.

→ With the help of drag-and-drop sprint creation, we can set sprint duration (with ease).

→ Via Burnup charts, we can visualize progress and potential roadblocks.

⇒ Trello in Tracking.

→ With Kanban boards we can track completion within sprints.

→ By progress report, we get automatic updates on sprint goals, tasks & remaining workload.