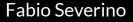
A pragmatic introduction to Agile methodology using Jira and Confluence



Agile principles

Agile project management is an iterative development methodology that values human communication and feedback, adapting to change, and producing working results.

Key values of Agile

- Iterative development
- Adaptive to changing requirements
- Frequent delivery
- Collaboration between cross-functional teams

Agile principles (2)

The main goal is to keep requirements and documentation lightweight and flexible.

This can only be achieved by ensuring close collaboration between team members, especially between business people and the developers.



Agile principles (3)

There are many methodologies that are considered agile but the two main ones (supported by Jira) are:

- SCRUM
- Kanban

SCRUM

Is the most highly recognized agile methodology

It works by breaking project down into smaller bits of user functionality represented by user stories.

User stories

Def. A user story is a short simple description of a product feature told from the perspective of a person that wants that feature.

They are used to define what is called the product **backlog** in an agile development workflow.

A backlog is a list of tasks required to support a larger strategic plan. In a product development context, it contains a **prioritized** list of items that the team has agreed to work sometime in the future.

User stories (2)

A typical grammar for user stories is

As a < type of user >, I want < some goal > so that < some reason >.

Ex. As a instagram user, I want to add photos to my profile so that I can have more likes.

User stories (3)

Detail can be added to user stories in two ways:

- By splitting a user story (epic) into multiple, smaller user stories.
- By adding "conditions of satisfaction."

Def. An **epic** is a very big user story that contains many other smaller user stories.

Def. The conditions of satisfaction is simply a high-level acceptance test that will be true after the agile user story is complete.

Condition of satisfaction

In other words, conditions of satisfaction are specific to a given product backlog item and define what must be true for that product backlog item to be considered done.

For example, a user story such as, "As a user, I am required to login with credentials before using the site," might include these conditions of satisfaction:

- user is logged in only when proper credentials are provided
- a "remember me" option is available
- user is locked out after three failed attempts

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- user is logged in only when proper credentials are provided
- a "remember me" option is available
- user is locked out after three failed attempts
- user can request a password reminder ← HIDDEN user story!

User stories

Usually, at first user stories are written using **post-it** cards where the user story is written on the front side and the condition of satisfaction on the back side.

After a brief discussion with the team:

- user stories are selected
- duplicates removed
- written form is improved
- they are organized in a agile management tool (like Jira)



SCRUM Roles

- Product owner (product team is better)
 - Define vision of the product
 - What should be built and why
- Development team
 - Builds the product
- Scrum Master
 - Facilitates the scrum process

SCRUM Roles

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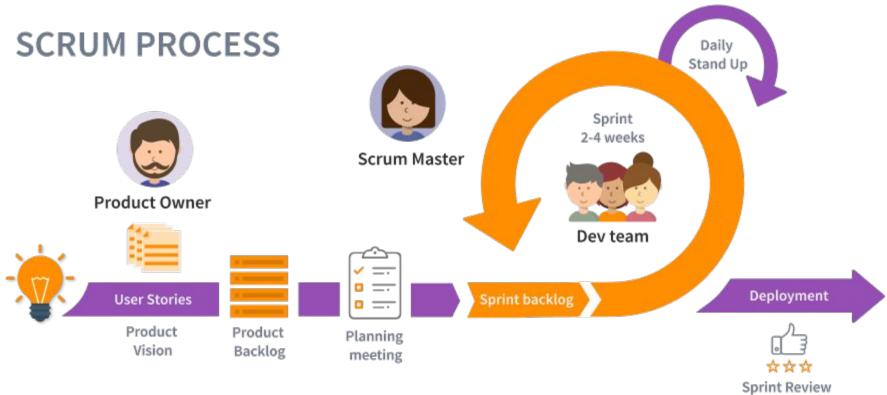
I hate this definition

I prefer the term project manager, It's stupid to have a people micro-managing the other people work

Although the scrum master ensures that the development team is working to meet the sprint goal, he is not considered their bosses or direct supervisors as the development team is expected to be self-organizing.

SCRUM Events

- Sprint planning (begin)
 - Sprint backlog created from product backlog
 - Dev team provides estimates => Story points or hours
- Standup Meeting (during)
 - Maximum 15 minutes long, the shorter, the better
 - What I did yesterday
 - What I plan to do today
 - Do I have any blockers?
- Sprint review & retrospective (end)
 - Review
 - What was completed / not completed
 - Retrospective
 - What went well
 - What could be improved



⁺ Sprint Retrospective

0	ScrumDevelop. Software project	···· 🗸	SCRUM board Backlog	•••
8	Backlog		Q Quick filters × Assignee ×	
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F	Pages	NEW	As a developer, I can update details on an item using the Detail View >> Click the "SCRUM-13" link at the top VERSION 2.0 SCRUM-13 ↑	
8	Components		As a user, I can find important items on the board by using the customisable "Quick Filters" above >> Try clicking the "Only I Q SCRUM-14 ↑ 📑	3
۲Ţ	Add item		As a scrum master, I can see the progress of a sprint via the Burndown Chart >> Click "Reports" to view the Burndown Chart	1
~	Settings		As a team, we can finish the sprint by clicking the cog icon next to the sprint name above the "To Do" column then selecting "Cor SCRUM-16 1 2	2
~	Settings		Instructions for deleting this sample board and project are in the description for this issue >> Click the "SCRUM-17" link and Q SCRUM-17 1	
			Backlog 8 issues Create spring	rint
			As a developer, I'd like to update story status during the sprint >> Click the Active sprints link at the top right of the screen to go tc SCRUM-9 ↑ 3	3
			As a product owner, I'd like to include bugs, tasks and other issue types in my backlog >> Bugs like this one will als VERSION 2.0 SCRUM-8 个	
			As an Agile team, I'd like to learn about Scrum >> Click the "SCRUM-1" link at the left of this row to see detail in the VERSION 2.0 SCRUM-1 1 2	2
			As a product owner, I'd like to express work in terms of actual user problems, aka User Stories, and place them in the VERSION 2.0 SCRUM-2 1 2	2
			As a product owner, I'd like to rank stories in the backlog so I can communicate the proposed implementation order VERSION 3.0 SCRUM-3 1 5	5
			As a team, I'd like to estimate the effort of a story in Story Points so we can understand the work remaining >> Try : VERSION 3.0 SCRUM-4 1 5	5
			As a team, I'd like to commit to a set of stories to be completed in a sprint (or iteration) >> Click "Create Sprint" then drag the foot SCRUM-5 个 🚺	D
			🚺 As a scrum master, I'd like to break stories down into tasks we can track during the sprint >> Try creating a task by clicking the Sul SCRUM-6 ↑ 🔲	

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ASampleScrum... ~ Software project

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Pages

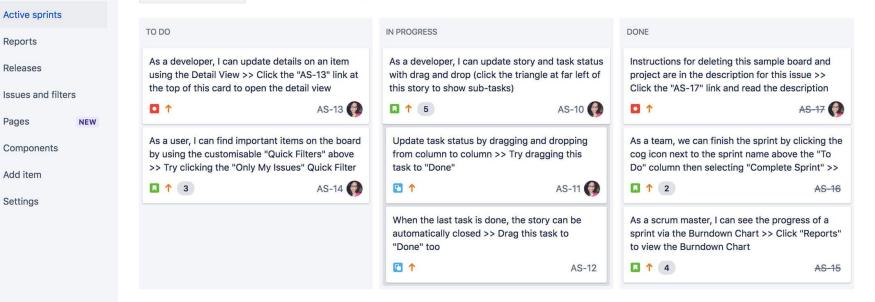
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AS board Sample Sprint 2

Quick filters Y

Q

Assignee ¥



4 days remaining

Complete sprint

...

Kanban

Is the a simpler form of agile development

• Define flow of work

- As in how does a particular work item go from start to completion?
- What are the various steps or stages that it would go through?

• Visualize the workflow

- A piece of work is represented by a Card that is contained in a list of the Kanban board
- The goal is to move items from left to right

• Limit on WIP items

• the limits generally come from the team's capacity (number and skill) to carry out tasks

• Monitor, adapt, improve

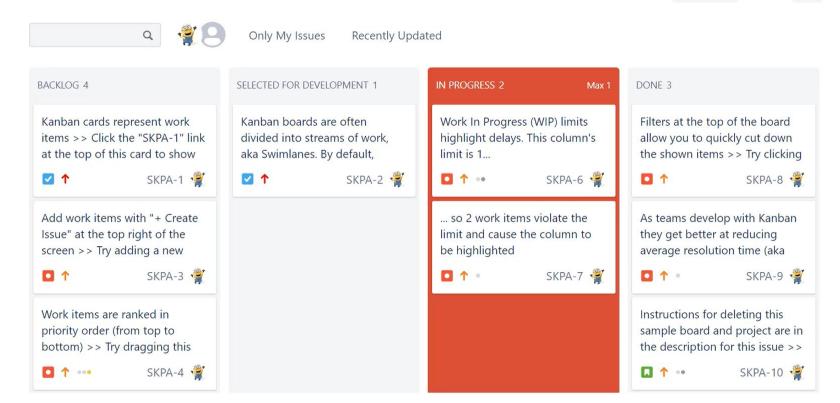
- The team can monitor the state of the board to adapt their processes, identify bottlenecks and make improvements.
- Change the shape of the board, adding lists
- Change priority of tasks based on people and circumstances

Projects / Sample Kanban Project A / SKPA board

Kanban board

🛿 🏠 Release 🖌 😪

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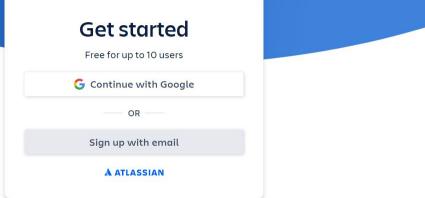
SCRUM VS Kanban

- Scrum is better suited for projects with defined features
- Kanban is better for
 - support
 - unpredictable development
 - lightweight development
 - not very structured work
 - short lived projects/tasks

♦ Jira Software Cloud Free



- ✓ Scale agile practices
- \checkmark Consolidate workflows
- ✓ Expand visibility
- ✓ Plan, track, and release



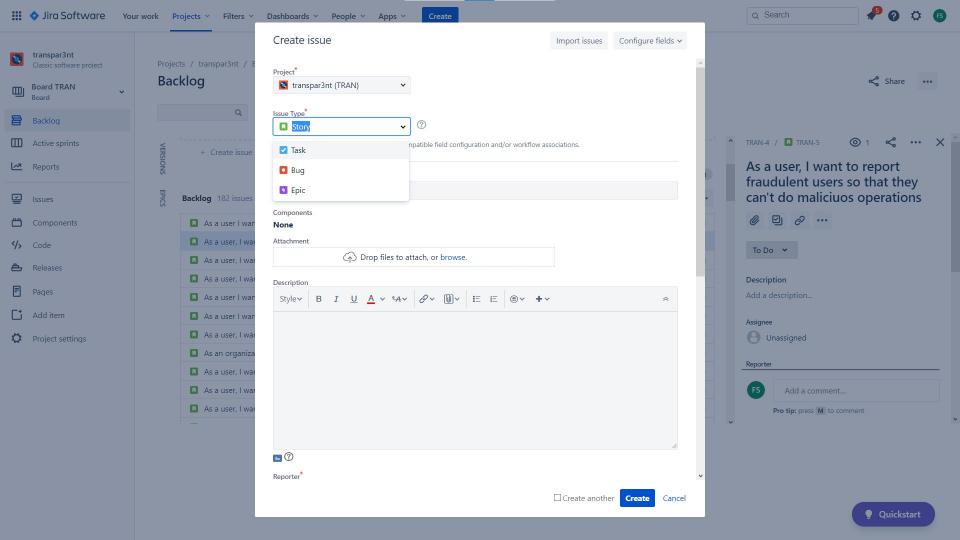
Back to JIRA

- Issues
 - Epics, stories, bugs, features are just different types of issues
- Projects
 - Is a collection of issues
- Workflow
 - is a set of statuses that an issue in a project can have, along with the transitions between statuses that the issue can go through.
- Versions
 - Used for tracking purposes, Jira allows you to create a version and add whatever issues that are going to be released into that version.
- Components
 - They are basically used to group issues within a project.

Issues

An issue is a data structure that contains

- Title
- Description
- Due date
- Priority
- Status
- So on and so forth...



Versions

Have you ever seen this kind of information attached to a new version of an app?

Novità

La versione più recente presenta la risoluzione di vari problemi tecnici e numerosi miglioramenti delle prestazioni.

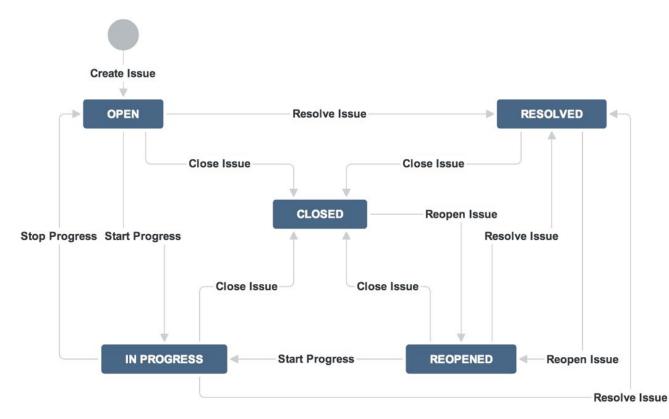
Cronologia aggiornamenti

Versione 162.0

This is a changelog.

In this form is simple... but not very informative

Typical workflow example



A better changelog

Confluence Spaces - F	People Q
EamCity Blog SPACE SHORTCUTS ChangeLog CHILD PAGES ChangeLog TeamCity 2020.1 Release N	Pages / TeamCity EAP / ChangeLog TeamCity 2020.1 Release Notes Created by Maria Kudyaxtseva on May 17, 2020 For the overview of the most Important new features check What's New in TeamCity 2020.1. Feature • TW-49672 — Use token-based CSRF protection and do not rely on Origin/Referer headers • TW-9157 — Making Investigations history info available • TW-6572 — Deline custom order for notification rules tabs • TW-54953 — Allow easy way to install agent with all the plugins (e.g. to use for cloud image preparation to speed up new cloud agent connection) • TW-54923 — Official Support for Slack • TW-64933 — Build Schedules tab: add option to hide triggers with 'Trigger only if there are pending changes' option enabled • TW-66011 — Update default maven version • TW-66054 — Deline using more sign some types of build problems instantly always • TW-64657 — Use to hange description on secondary nodes • TW-64574 — Deline baile agent-related user actions on secondary nodes • TW-65334 — Allow to did thange description on secondary nodes • TW-65433 — Allow to did thange description on secondary nodes • TW-65433 — Allow to change user profile and properties from secondary nodes • TW-65434 — Allow to change user profile and properties from secondary nodes • TW-65434 — Allow to change user profile and properties from secondary nodes • TW-65434 — Allow to change user profile and properties from secondary nodes • TW-65434 — Allow to change user profile and properties from secondary nodes • TW-65434 — Allow to change user profile and properties from secondary nodes • TW-65434 — Allow to change user profile and properties filter options in build log view • TW-64439 — Extract 'processing triggers' responsibility and make it possible to enable it on a secondary node • TW-64130 — Pull requests support for Azur DevOps

A better changelog

X Confluence Spaces - F	People	Q
TeamCity	Pages / TeamCity EAP / ChangeLog TeamCity 2020.1 Release Notes	
SPACE SHORTCUTS	Created by Maria Kudryavtseva on May 17, 2020 For the overview of the most important new features check What's New in TeamC Feature	If you build a very complex project, you and up with a changelog like this
ImageLog TeamCity 2020.1 Release N	 TW-49672 — Use token-based CSRF protection and do not rely on Origin/F TW-9157 — Making investigations history info available TW-65792 — Define custom order for notification rules tabs TW-54953 — Allow easy way to install agent with all the plugins (e.g. to use TW-54229 — Official Support for Slack TW-64983 — Build Schedules tab: add option to hide triggers with 'Trigger of TW-66001 — Update default maven version TW-64064 — Update "what's new" link for 2020 TW-64162 — Support for 1.x sbt versions TW-60059 — UI for "add to favorites" and custom order TW-65334 — Allow to edit change description on secondary node 	The changes are coming from Jira and the Changelog is automatically generated in Confluence ;) No manual work, no missing information.
	 TW-65199 — Enable agent-related user actions on secondary nodes TW-65461 — Enable auto-update for secondary nodes TW-64633 — Allow to initiate check for pending changes from secondary not TW-63346 — Allow to change user profile and properties from secondary not TW-64438 — Extract 'processing triggers' responsibility and make it possible TW-65101 — Add "Errors" and "Important messages" filter options in build I TW-61790 — Pull requests support for Azure DevOps 	odes e to enable it on a secondary node

Components

Perhaps your project is broken into back in development and front end of it.

So you could create both of these as components and be able to group your issues accordingly.

It's almost like a category of work, used to organize issues and automating process.

For instance you can configure issues created under a component to have a default assignee so that when created, it's automatically assigned to the right person.

Jira interface anatomy

- Product/project picker
- Your work
 - Shows the project you are working on and the issues that are more relevant to you (e.g. assigned issues)
- Projects
 - show your recent projects and actions as create project and view all projects
- Filters
 - A way to save your searches in a way that is relevant for you

- Dashboard
 - A customizable page that acts like a control panel
- People
 - Recent feature, used to represent real word teams in Jira
- App
 - Integrations...

Filters

A way to save your searches in a way that is relevant for you

- Example of filters
 - My open issues
 - Reported by me
 - All issues
 - Open issues
 - Done issues
 - Updated recently...

Dashboard

Moving on, a dashboard is a page that you can create that acts kind of like a control panel and gives you various kinds of information that's relevant to you, and the information is provided through things like widgets.

And you can customize this entire page from top to bottom and add different types of gadgets that display

Jira Software Your work Projects 🗸

Filters V Dashboards V People V Apps V

s Y Create

Q Search





Back to project

Projects / transpar3nt

All reports

Agile



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Reports

G

All reports

AGILE

Board TRAN Board

Burndown Chart

Burnup Chart

Sprint Report

Velocity Chart

Cumulative Flow Diagram

Version Report

Epic Report

Control Chart

Epic Burndown

Release Burndown

ISSUE ANALYSIS

Average Age Report

Created vs Resolved Issues R...

Pie Chart Report

Recently Created Issues Rep...



Burndown Chart

Track the total work remaining and project the likelihood of achieving the sprint goal. This helps your team manage its progress and respond accordingly.



Burnup Chart

Track the total scope independently from the total work done. This helps your team manage its progress and better understand the effect of scope change.

2			
	-		
		~	

Sprint Report

Understand the work completed or pushed back to the backlog in each sprint. This helps you determine if your team is overcommitting or if there is excessive scope creep.



Velocity Chart

Track the amount of work completed from sprint to sprint. This helps you determine your team's velocity and estimate the work your team can realistically achieve in future sprints.



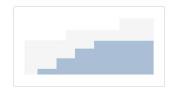
Cumulative Flow Diagram

Shows the statuses of issues over time. This helps you identify potential bottlenecks that need to be investigated.



Version Report

Track the projected release date for a version. This helps you monitor whether the version will release on time, so you can take action if work is falling behind.



Epic Report

Understand the progress towards completing an epic over time. This helps you manage your team's progress by tracking the remaining incomplete/unestimated work.



Control Chart

Shows the cycle time for your product, version or sprint. This helps you identify whether data from the current process can be used to determine future performance.

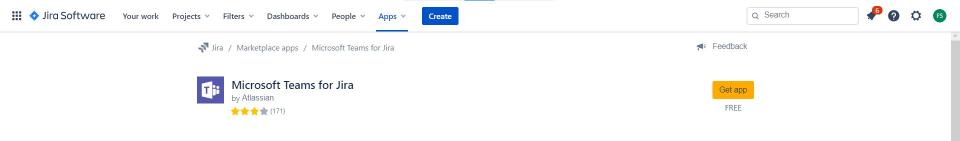
🗰 🔷 Jira Software your	work Projects × Filters × Dashboards × People × Apps × Create	Q Search 🔷 🖓 🏠 🚯
Classic software project	Pie Chart Report	
Back to project	Project: transpar3nt (Issue Type)	
	Chart	
Reports		
All reports		
AGILE		
	Story = 182	
Board TRAN V		
Burndown Chart		
Burnup Chart		
Sprint Report		
Velocity Chart		
Cumulative Flow Diagram		
Version Report	Epic = 37	
Epic Report		
Control Chart		
Epic Burndown		
Release Burndown	Data Table	
ISSUE ANALYSIS	Issues	%
Average Age Report	Story 182 Epic 37	83% 16%
Created vs Resolved Issues R		
Pie Chart Report		

https://transpar3nt.atlassian.net/issues/?jql=project+%3D+TRAN+AND+issuetype+%3D+Story



You can integrate Jira with your existing tools... for instance...





Jira integration for Microsoft Teams



Add the Jira Cloud tab in Microsoft Teams.

After installing add-on to your team's Jira, you are ready to add your first Jira tab in Microsoft Teams. To do this, select the Jira Cloud tile.

Select your Jira project.

Find a project you are working on or apply filters if you need to narrow down results.



•	Filter by team or channel	×	Demo > Dev Support …								101
9	Test Mary	Convenience Film Will <u>the Constituting -</u> +					0.00				
•	Integration Point										
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				KSDP-3	Add work items with "+ Craate Issue" at the to	Xyle Reese	Adds Vance	+	8409.00	6/01/18	8/31/18
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œ				KSDP-7	_ so 2 work items violate the limit and cause th.	Adele Vance	Addie Varion		IN PROCEEDS	6/27/18	6/30/18
10			0	KSDF-10	Instructions for doleting this sample board and.	Errira Store	Adole Vance		(10000)	6/23/18	6/25/18

Work on your issues together with your team.

Q Search

A

Discuss your backlog just within Microsoft Teams.

More details

Jira Cloud for Microsoft Teams makes collaboration and communication over the backlog easy and smooth. Create tabs with issues and track and discuss your team's progress in your channel without leaving Microsoft Teams.

Note: You need administrator access to install add-on.

Privacy and security

Privacy policy

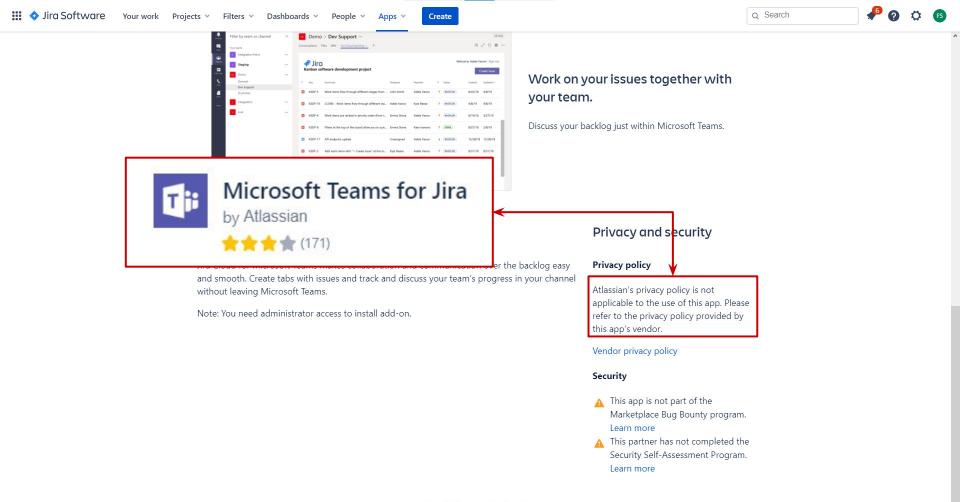
Atlassian's privacy policy is not applicable to the use of this app. Please refer to the privacy policy provided by this app's vendor.

Vendor privacy policy

Security

- A This app is not part of the Marketplace Bug Bounty program. Learn more
- This partner has not completed the Security Self-Assessment Program. Learn more

View all info on marketplace *



View all info on marketplace 7



Confluence

Is a content management system or Wiki tool that allows you to organize your work and collaborate

Typically used to store

- Wiki
- Project plans
- Knowledge base
- Team documentation
- Meeting notes
- Product requirements

but ultimately the kind of documents stored depends on the organization

Confluence main features

- Create and organize rich content related to anything and everything
- Real-time collaboration on documents
- Document templates for easy content creation
- Seamless integration with JIRA
- Automatic version control
- Automatic saving
- Apps and extensions available for added functionality

Confluence terms

• Spaces

- Like a directory, is a way to organize contents
- Confluence comprises of Spaces like JIRA comprises of Projects
- Pages
 - Any kind of content-document (e.g. meeting notes, articles, product specifications...)
 - Spaces contain Pages like JIRA Projects contain Issues
- Macros (advanced)
 - Dynamic content that can be added into a Page
 - Table of contents
 - JIRA Issue Filter
 - Search bar
 - Charts
 - ····

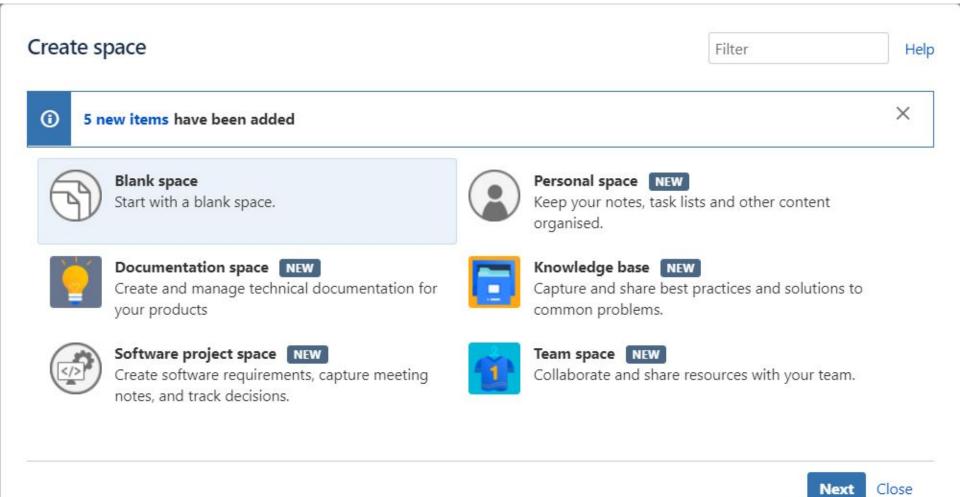
Spaces

There are basically two kinds of spaces

- The site space
 - is a collaboration space for a particular team or project
- Personal space
 - Basically a place to work on draft where you can polish your documents before moving them to a public (site) space

Every space has its own

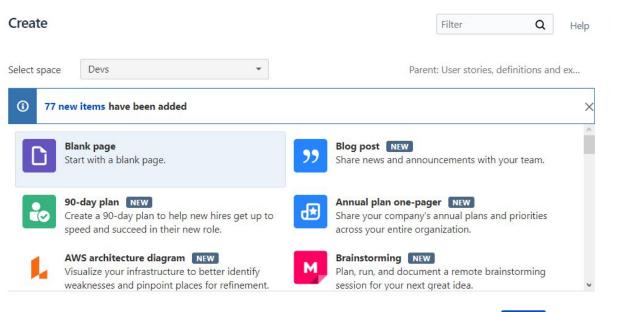
- pages
- files
- and an optional blog



Pages templates

- You don't need to use all of them on a day to day basis
- But if you do have some time, I recommend just going through the list and just keeping it at the back of your mind.
- Use your personal space from time to time to try new templates

Page templates



Add or customise templates for the selected space

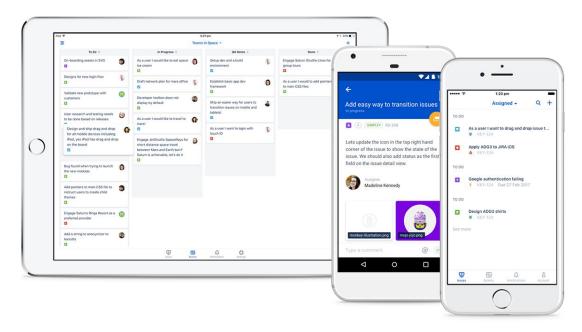
Create Close

Mobile Apps

Jira and Confluence are also available as mobile apps on Apple App Store and Google Play Store.







Conclusions

Jira and Confluence are two of the most used (and powerful) solutions for project management and Wiki.

Whether you will be working in an IT company or another type of organized company, it is very likely that during your career you will use them.

This is why it is important to understand the mechanisms and motivations behind these tools.

In the end, the tools change frequently, but the methodologies don't.