

Azure Boards



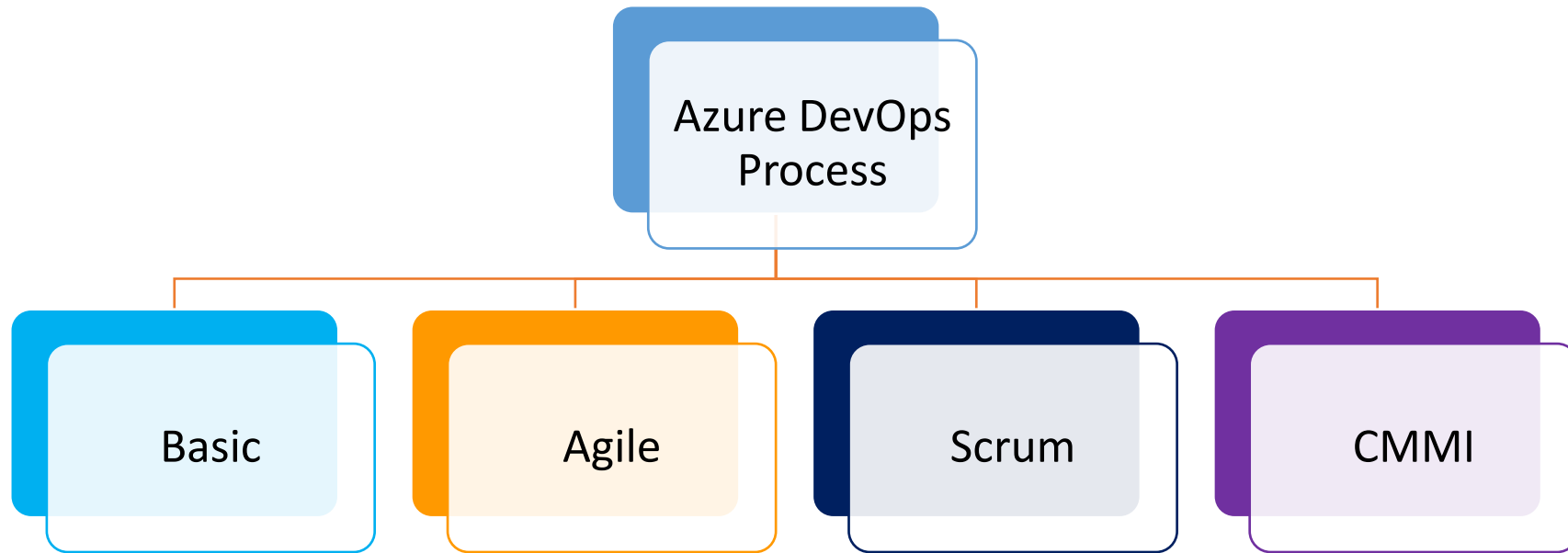
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Azure Boards

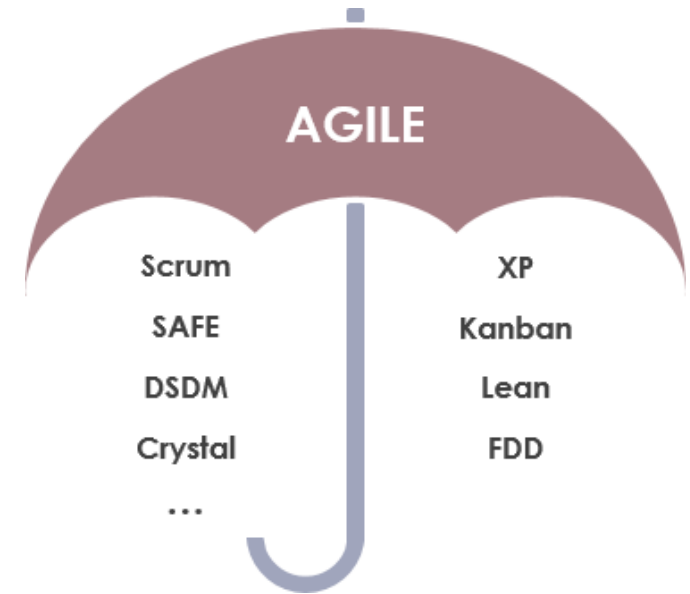
- Used to Plan Your work/sprints.
- Visualize Your Work/Tasks.
- Track user stories, backlog items, task, features, and bugs associated with your project.
- You track work by adding work items based on the process and work item types.

Azure DevOps Process Templates



CMMI vs. Agile vs. Scrum

- CMMI (Capability Maturity Model Integration) is used for the improvement of the current process to attain certain levels
- Agile is a methodology that promotes continuous iteration of development and testing in the software development process.
- Scrum is an Agile process to focus on delivering the business value in the shortest time. It deals with new process.



DevOps vs. Agile

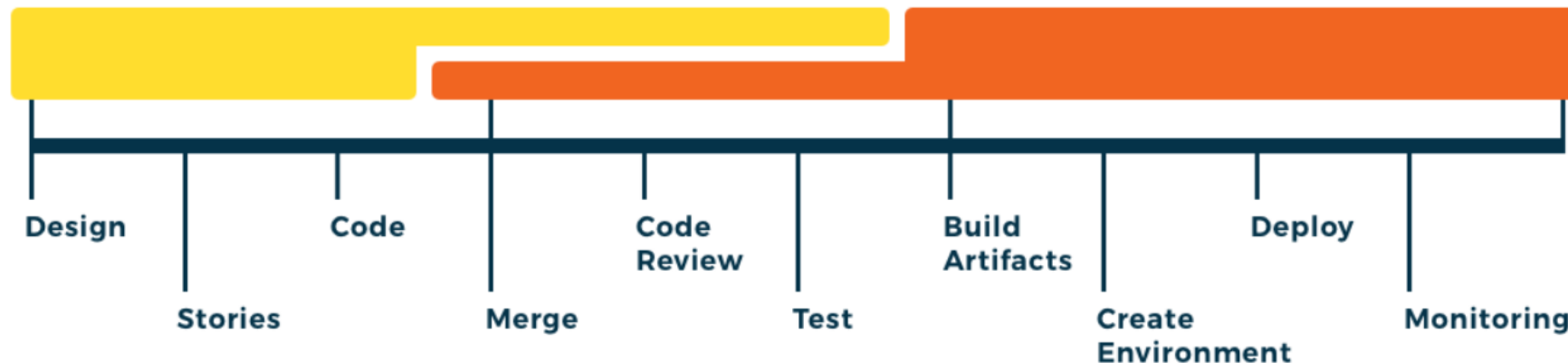
Features	DevOps	Agile
Agility	Agility in both Development & Operations	Agility in only Development
Processes/Practices	Involves processes such as CI, CD, CT, etc.	Involves practices such as Scrum, Kanban, etc.
Key Focus Area	Timeliness & quality have equal priority	Timeliness is the main priority
Release Cycles	Smaller release cycles with immediate feedback	Smaller release cycles
Source of Feedback	Feedback is from monitoring tools	Feedback is from customers
Scope of Work	Agility & need for Automation	Agility only

DevOps vs. Agile

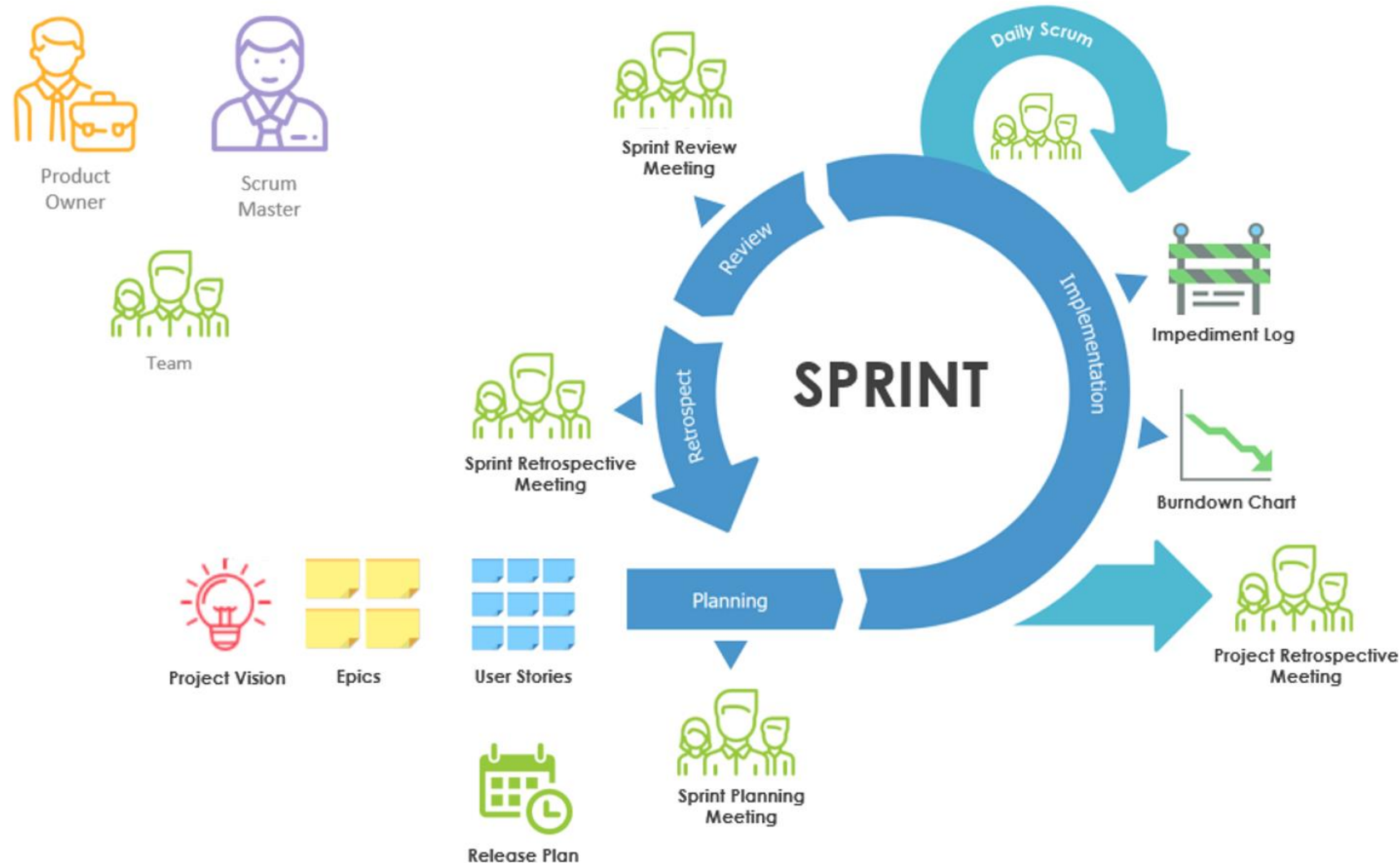


HUMAN ACTIVITIES (AGILE)

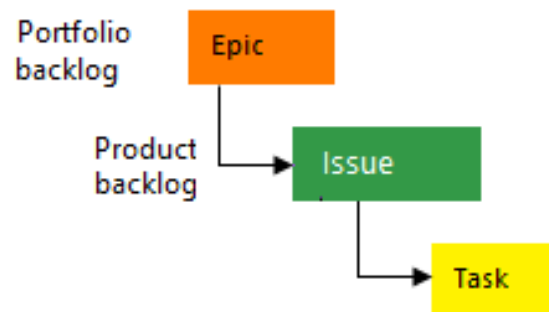
COMPUTER ACTIVITIES (DEVOPS)



Agile - How Does Scrum Work?

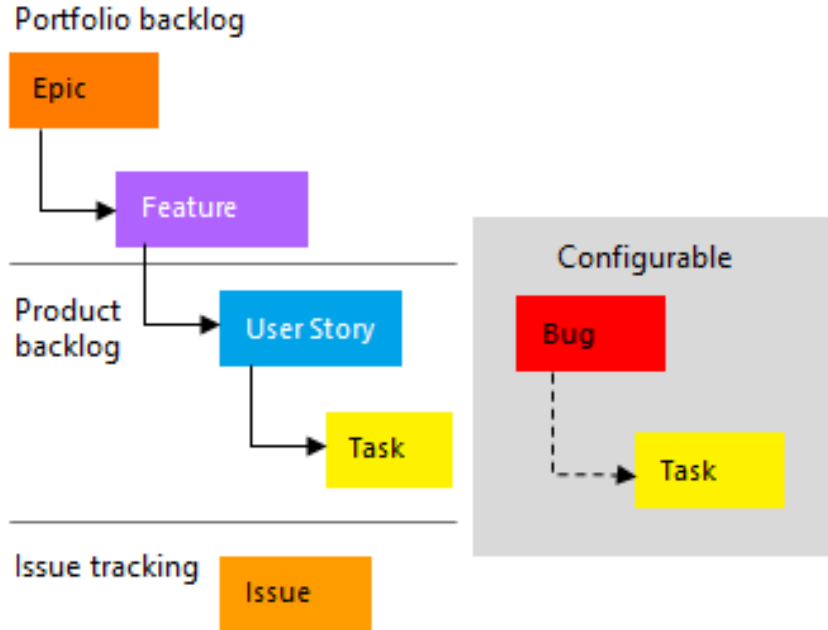


Basic Process



State	Title
● To Do	▼ 🏰 Web site updates
● Doing	📄 Secure sign-in
● Doing	▼ 📄 Hello World web site
● To Do	✅ Design welcome screen
● To Do	✅ Standarize form factors
● To Do	✅ Change background color
● To Do	✅ About screen
● To Do	📄 Welcome back page
● To Do	📄 Change initial view
● To Do	▼ 🏰 Service status
● Doing	📄 Resolve service status issues
● Doing	📄 Check performance
● To Do	📄 Change new item

Agile Process



Epic -> Months -> Deliver in multiple sprints.

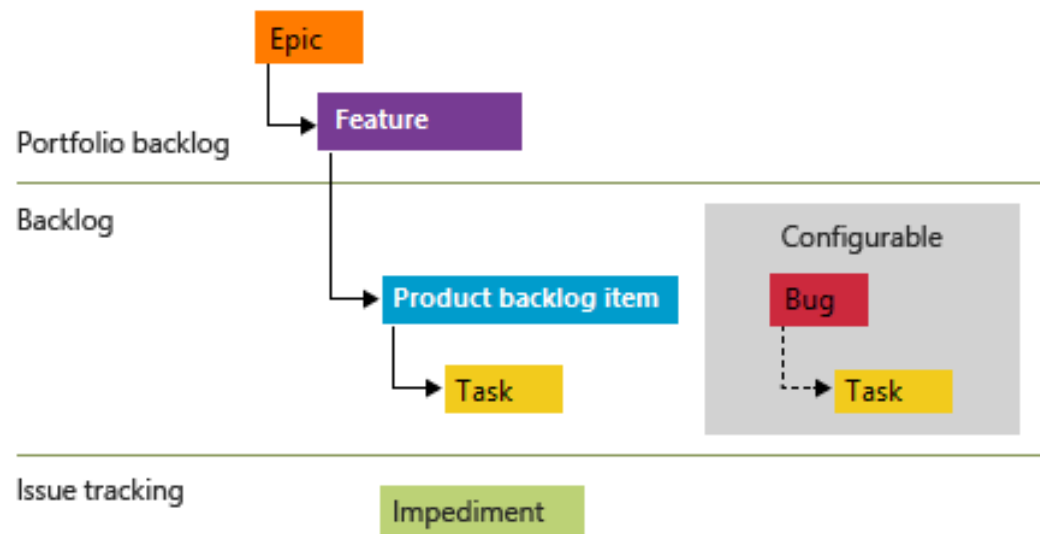
Feature -> Weeks -> Deliver in 2 or more sprints.

User Story/Product Backlog Item -> Days -> Deliver in single sprint

Task -> Hours

State	Title
● New	▼ 🏰 Web site updates
● New	▼ 🏆 Web pages
● New	📄 Cancel order form
● Active	▼ 📄 Hello World web site
● Active	📄 Change background color
● New	📄 Change page layout
● New	📄 Develop about page
● New	🐛 Slow response on form
● Active	> 🐛 Secure Sign-in
● New	> 🏆 Improve User Experience
● Active	> 🏆 Emoticon feedback enabled in client
● New	▼ 🏰 Service status
● New	▼ 🏆 Service support
● New	📄 Lookup service outages
● Resolved	🐛 Canadian addresses don't display
● Active	🐛 Voicemail hang issue
● Active	🐛 Check issues with permissions

Scrum Process



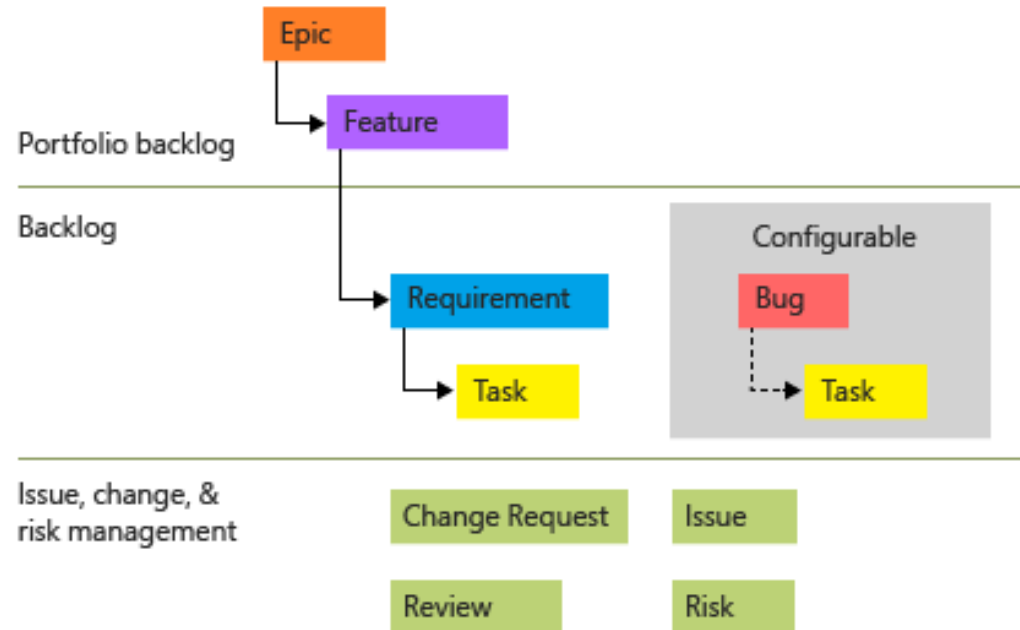
State

- New
- In Progress
- Committed
- Approved
- New
- New
- New
- New
- Approved
- New
- New
- New
- New
- New
- In Progress
- New

Title

- ✓ 🏰 Phase 1 - Customer access and engagement
 - ✓ 🏆 Customer Phone - Phase 1
 - > 📞 Request support
 - > 📞 Phone sign in
 - > 🏆 Customer Web - Phase 1
- ✓ 🏰 Support mobile apps
 - ✓ 🏆 Mobile shopping cart
 - 📞 Check out
 - 📞 Add an item
 - 📞 Clear an item
 - 📞 Design UI
 - > 🏆 Mobile feedback
- ✓ 🏰 Customer service - improve UI performance
 - ✓ 🏆 Refresh web look, feel, performance factors
- 🐛 Bug 2

CMMI Process



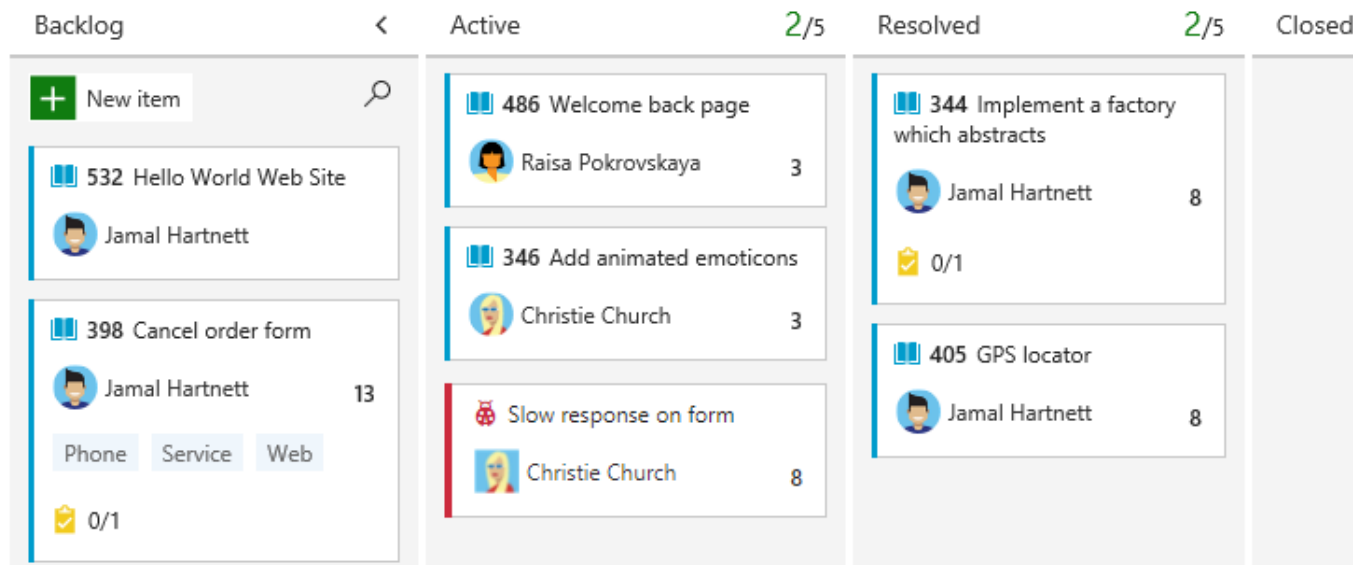
Work Item Type	Title
Epic	✓ 🏰 Service status
Feature	✓ 🏆 Web pages
Requirement	📄 Cancel order form
Bug	🐛 Slow response on form
Bug	🐛 Secure sign-in
Feature	> 🏆 Improve User Experience
Feature	> 🏆 Emoticon feedback enabled
Epic	✓ 🏰 Web site updates
Feature	✓ 🏆 Service support
Requirement	📄 Lookup service outages
Bug	🐛 Voicemail hang issues
Bug	🐛 Check issues with permissions

Basic vs. Agile vs. Scrum vs. CMMI

Tracking area	Basic	Agile	Scrum	CMMI
Workflow states	<ul style="list-style-type: none">• To Do• Doing• Done	<ul style="list-style-type: none">• New• Active• Resolved• Closed• Removed	<ul style="list-style-type: none">• New• Approved• Committed• Done• Removed	<ul style="list-style-type: none">• Proposed• Active• Resolved• Closed
Product planning	<ul style="list-style-type: none">• Issue	<ul style="list-style-type: none">• User story• Bug (optional)	<ul style="list-style-type: none">• Product backlog item• Bug (optional)	<ul style="list-style-type: none">• Requirement• Bug (optional)
Portfolio backlogs	<ul style="list-style-type: none">• Epic	<ul style="list-style-type: none">• Epic• Feature	<ul style="list-style-type: none">• Epic• Feature	<ul style="list-style-type: none">• Epic• Feature
Task and sprint planning	<ul style="list-style-type: none">• Task	<ul style="list-style-type: none">• Task• Bug (optional)	<ul style="list-style-type: none">• Task• Bug (optional)	<ul style="list-style-type: none">• Task• Bug (optional)
Bug backlog management	<ul style="list-style-type: none">• Issue	<ul style="list-style-type: none">• Bug	<ul style="list-style-type: none">• Bug	<ul style="list-style-type: none">• Bug
Issue and risk management	<ul style="list-style-type: none">• Issue	<ul style="list-style-type: none">• Issue	<ul style="list-style-type: none">• Impediment	<ul style="list-style-type: none">• Issue• Risk• Review

Kanban Board

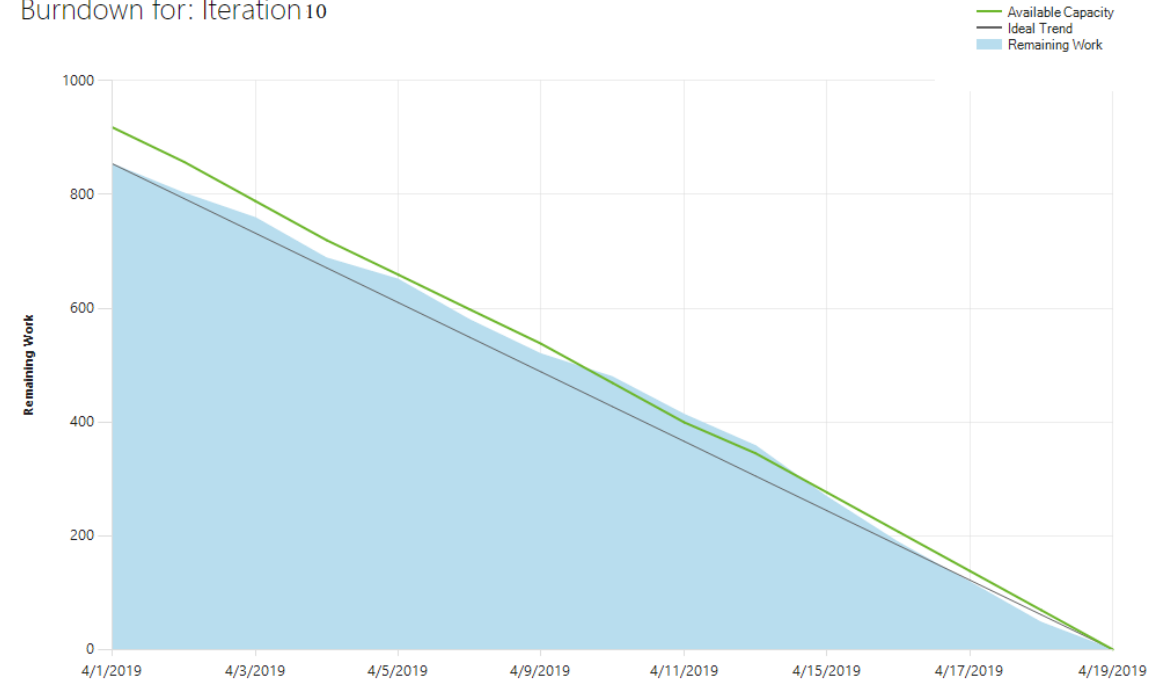
- Kanban board is useful for visualizing and track project progress.
- Easily identify who is working on what tasks and the status of those tasks.
- Create transparency between the team and the stakeholders.
- Easy and user-friendly status change option by just drag-and-drop.



Burndown Graph

- Burndown graph represents the remaining work of a Scrum Team.
- The vertical axis represents the story points or hours and horizontal axis represent the dates (between the sprint start date and end date).

Burndown for: Iteration10



Velocity

- Velocity is the measurement of backlog items completed in a single sprint by Team members.
- Helps in forecasting future sprints and the backlog items that a team can complete.

