

Azure Boards



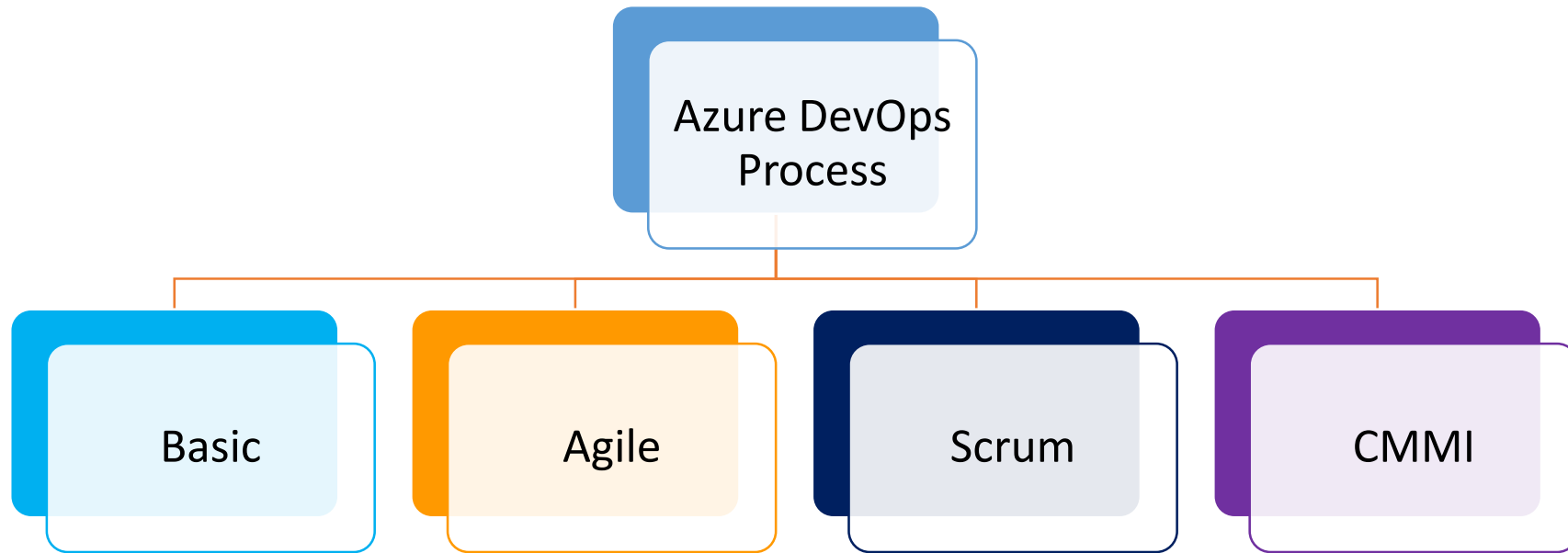
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Azure Boards

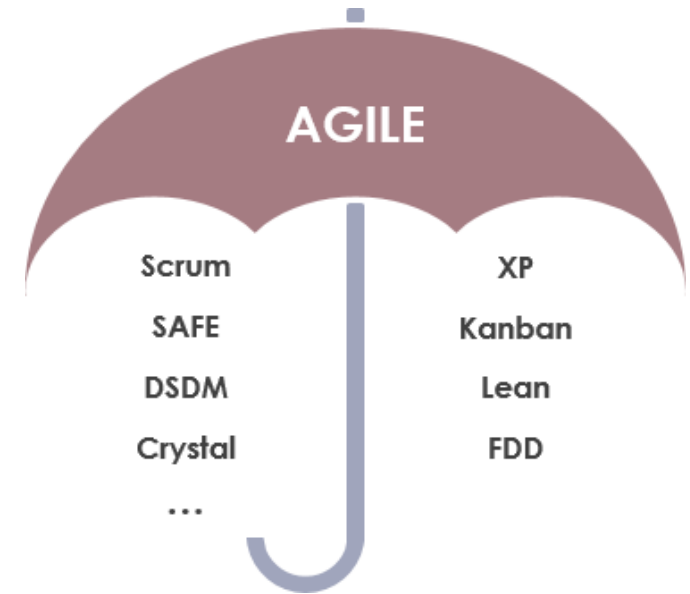
- Used to Plan Your work/sprints.
- Visualize Your Work/Tasks.
- Track user stories, backlog items, task, features, and bugs associated with your project.
- You track work by adding work items based on the process and work item types.

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

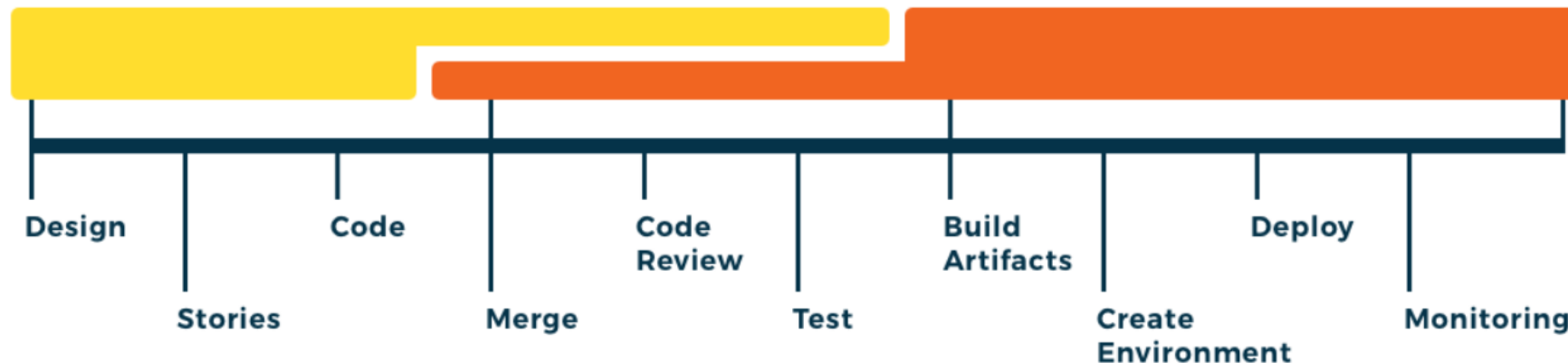
| Features | DevOps | Agile |
|----------------------------|--|--|
| Agility | Agility in both Development & Operations | Agility in only Development |
| Processes/Practices | Involves processes such as CI, CD, CT, etc. | Involves practices such as Scrum, Kanban, etc. |
| Key Focus Area | Timeliness & 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

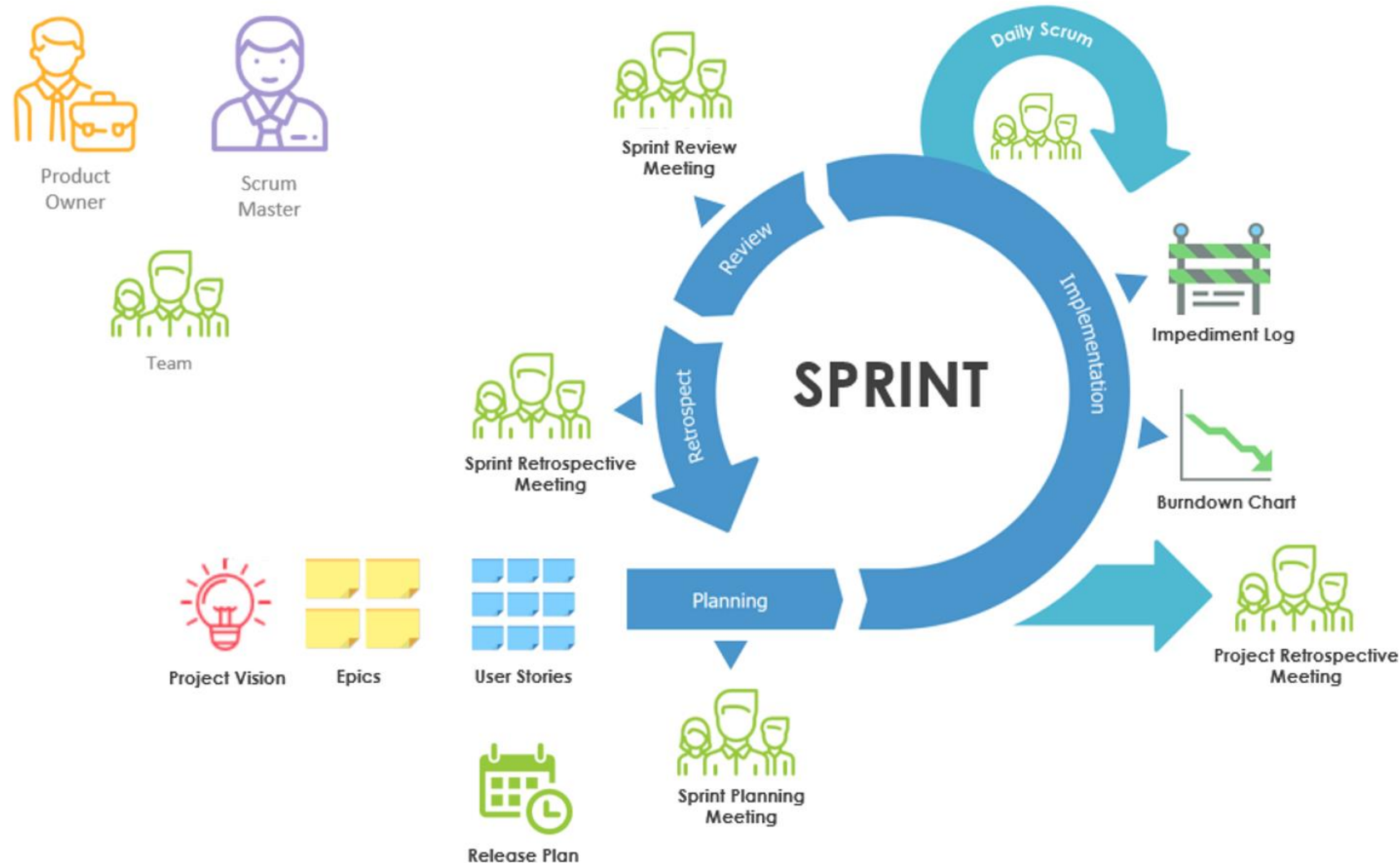


HUMAN ACTIVITIES (AGILE)

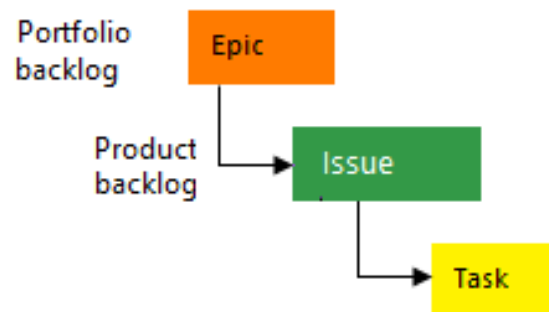
COMPUTER ACTIVITIES (DEVOPS)



Agile - How Does Scrum Work?

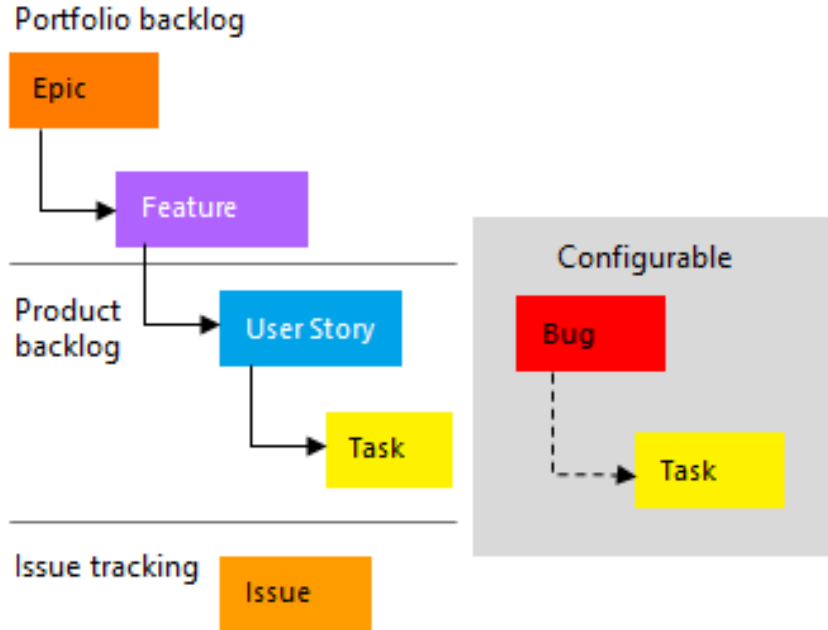


Basic Process



| 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.

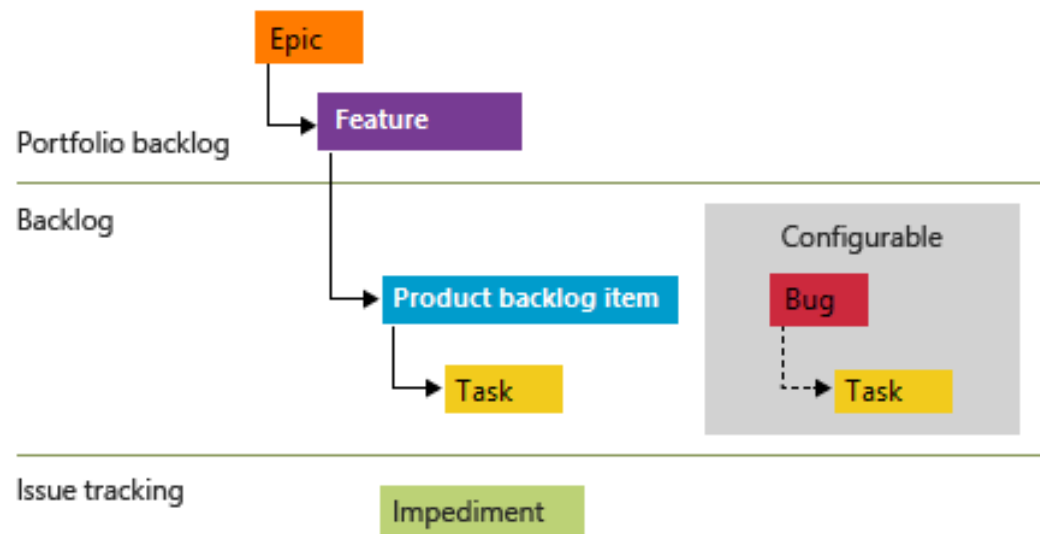
Feature -> Weeks -> Deliver in 2 or more sprints.

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



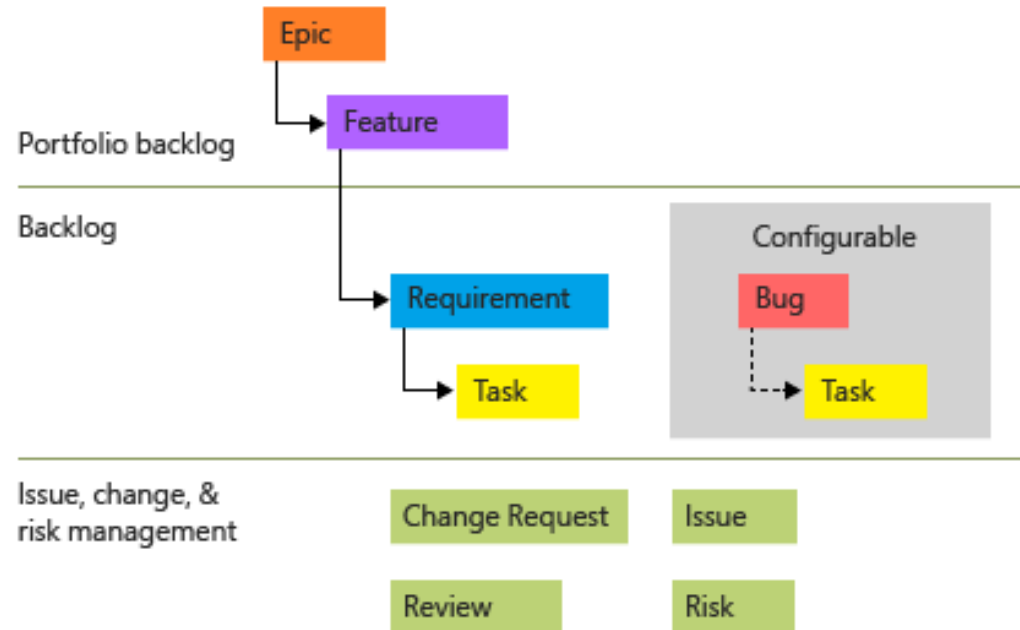
State

- 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



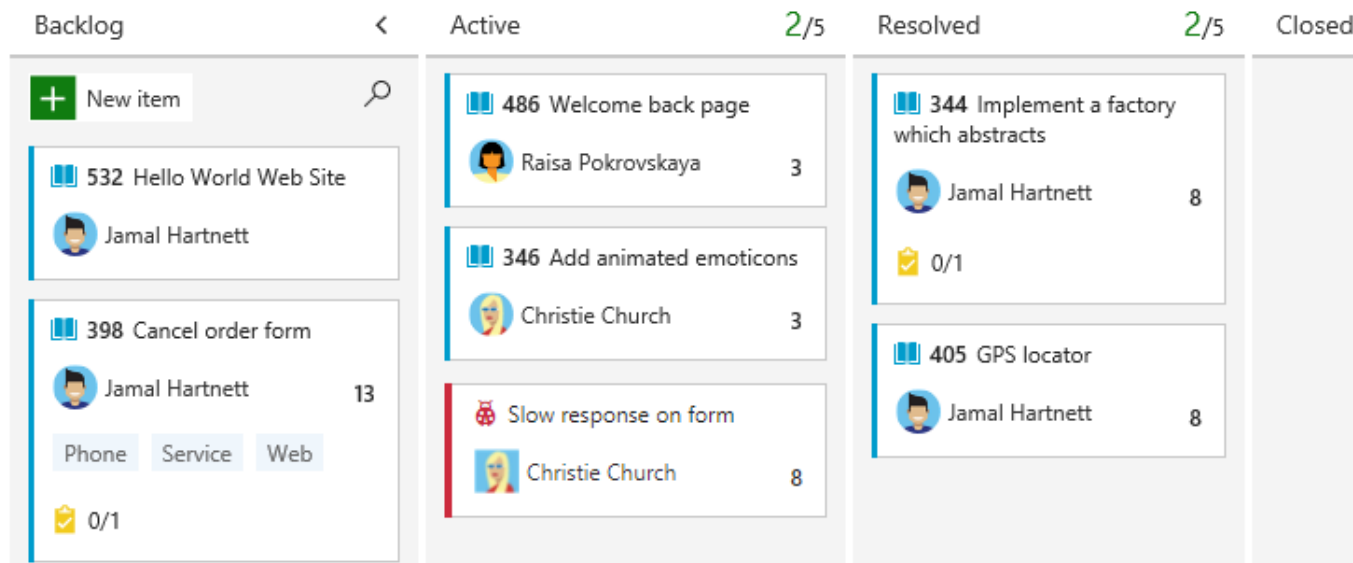
| Work Item Type | Title |
|----------------|---------------------------------|
| Epic | ✓ 🏰 Service status |
| Feature | ✓ 🏆 Web pages |
| Requirement | 📄 Cancel order form |
| Bug | 🐛 Slow response on form |
| Bug | 🐛 Secure sign-in |
| Feature | > 🏆 Improve User Experience |
| Feature | > 🏆 Emoticon 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

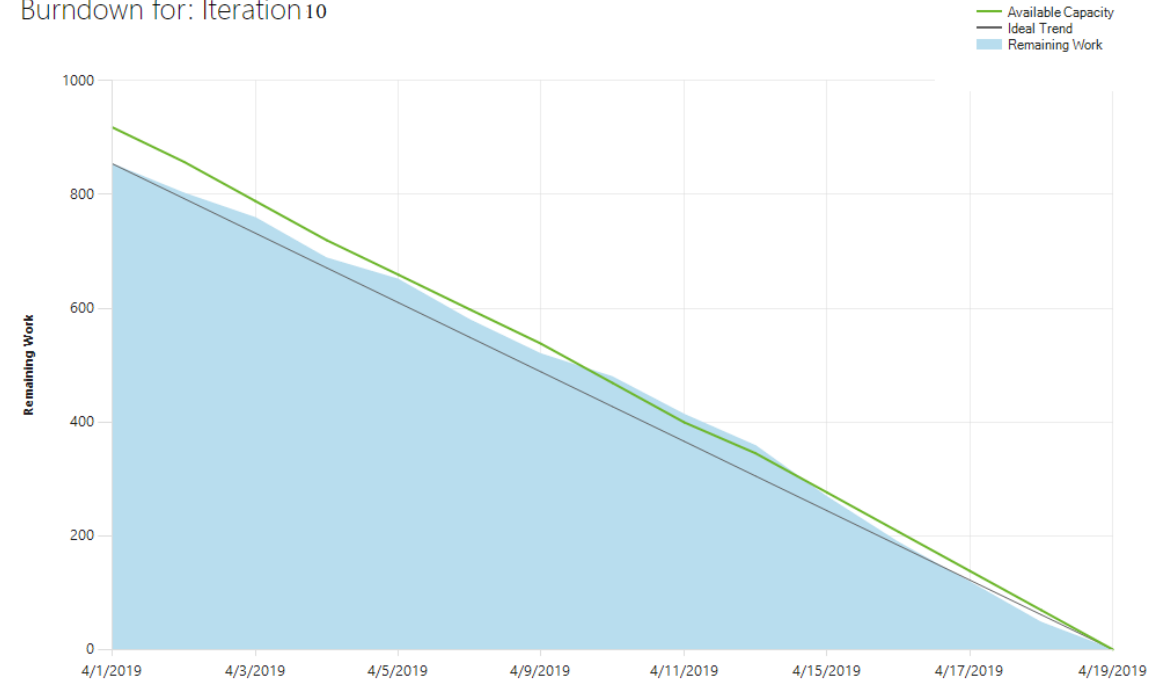
- Kanban board is useful for visualizing and track project progress.
- Easily identify who is working on what tasks and the status of those tasks.
- Create transparency between the team and the stakeholders.
- Easy and user-friendly status change option by just drag-and-drop.



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.

