



Application Lifecycle Management at Auckland Transport Standards & Guidelines for Managing Projects in VSTS

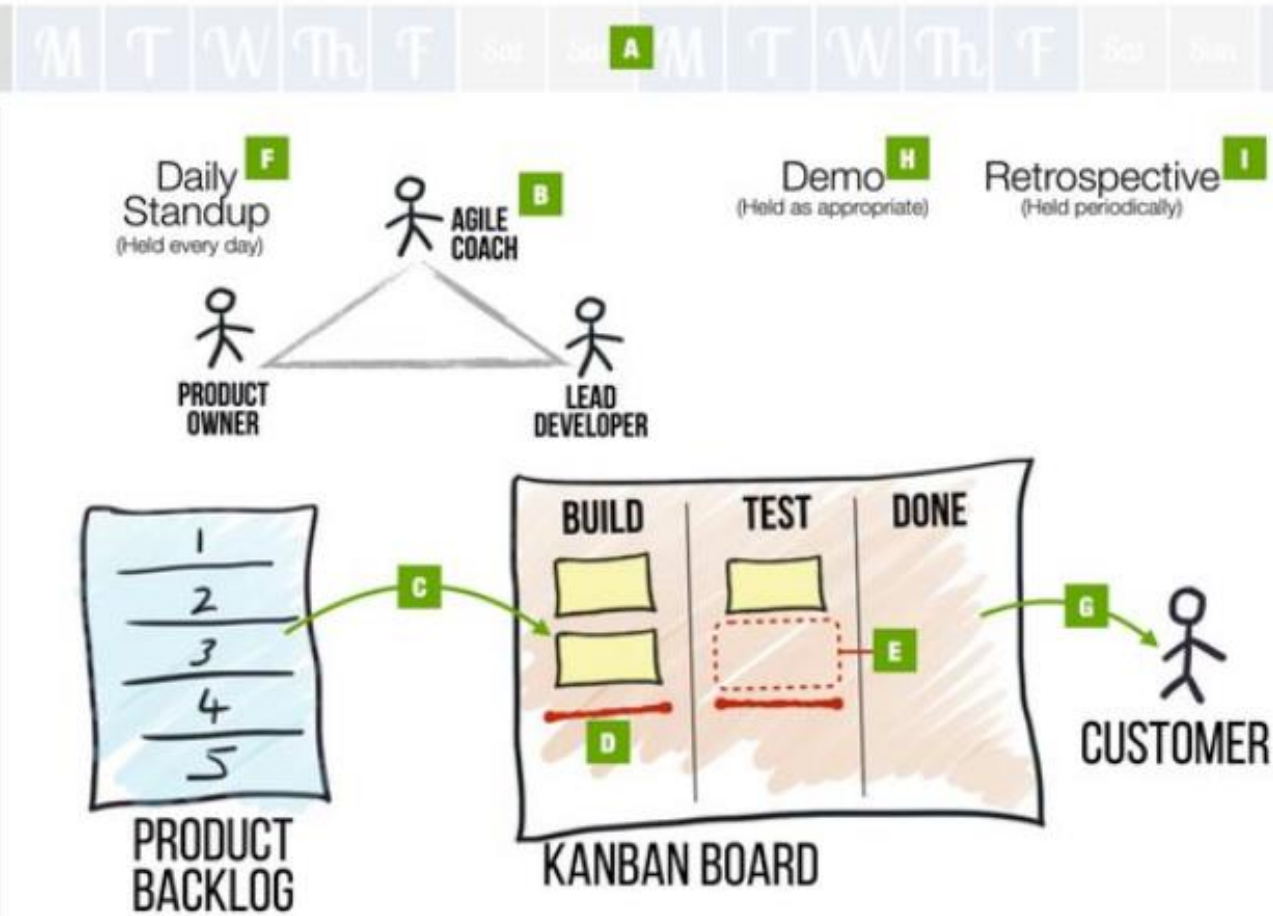
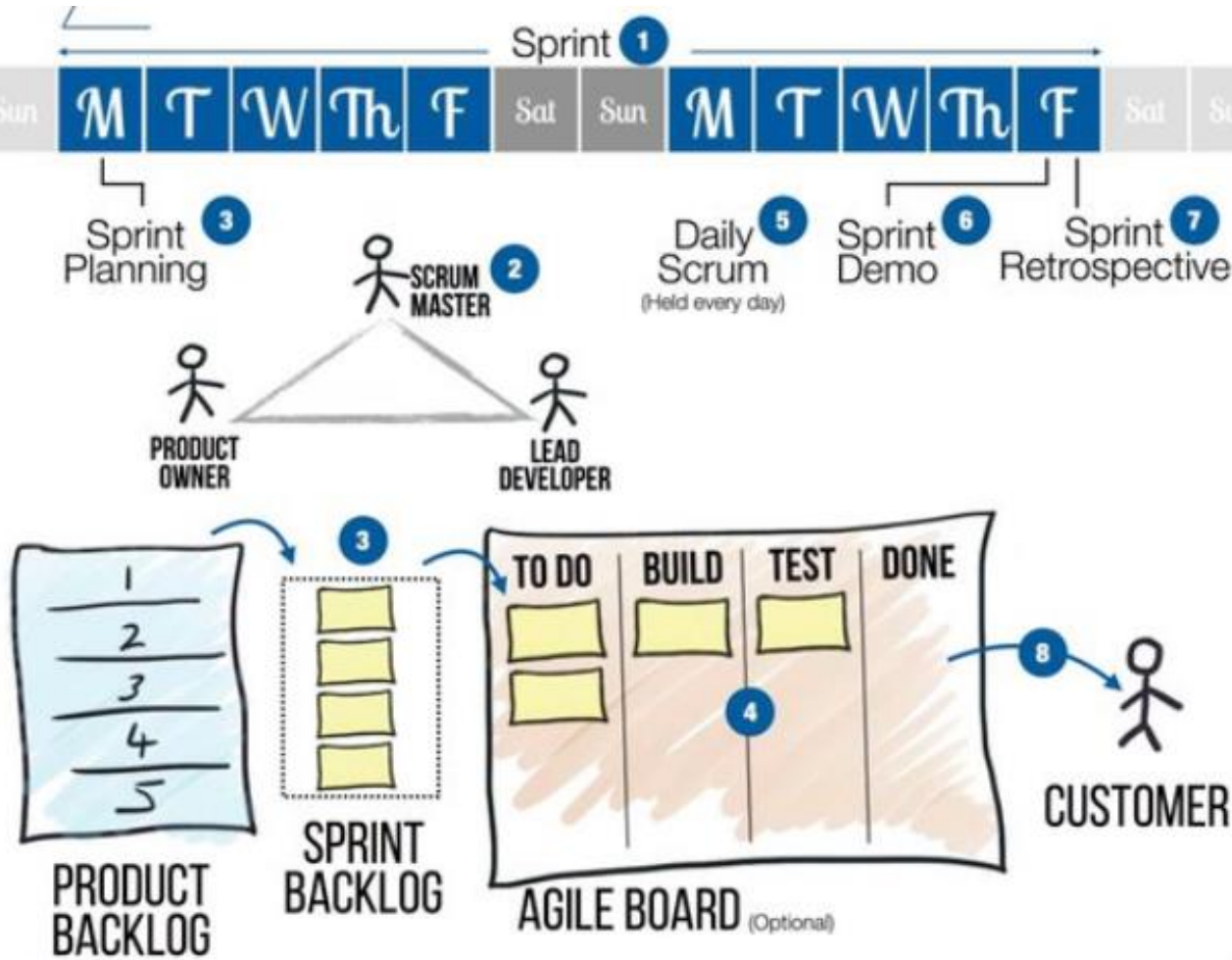
Nikolai Blackie
Premier Field Engineer Sub-Contractor



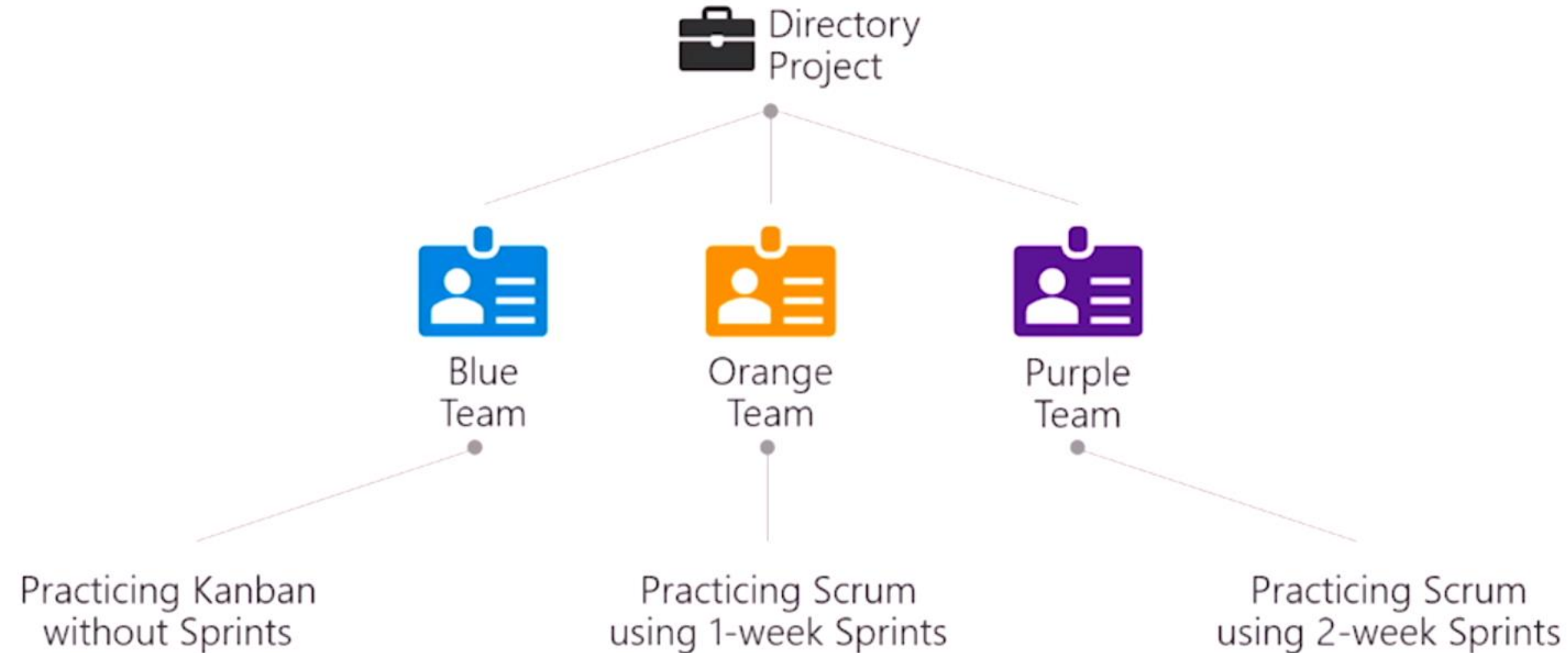
AT Wiki - VSTS Guidance for Managing Projects

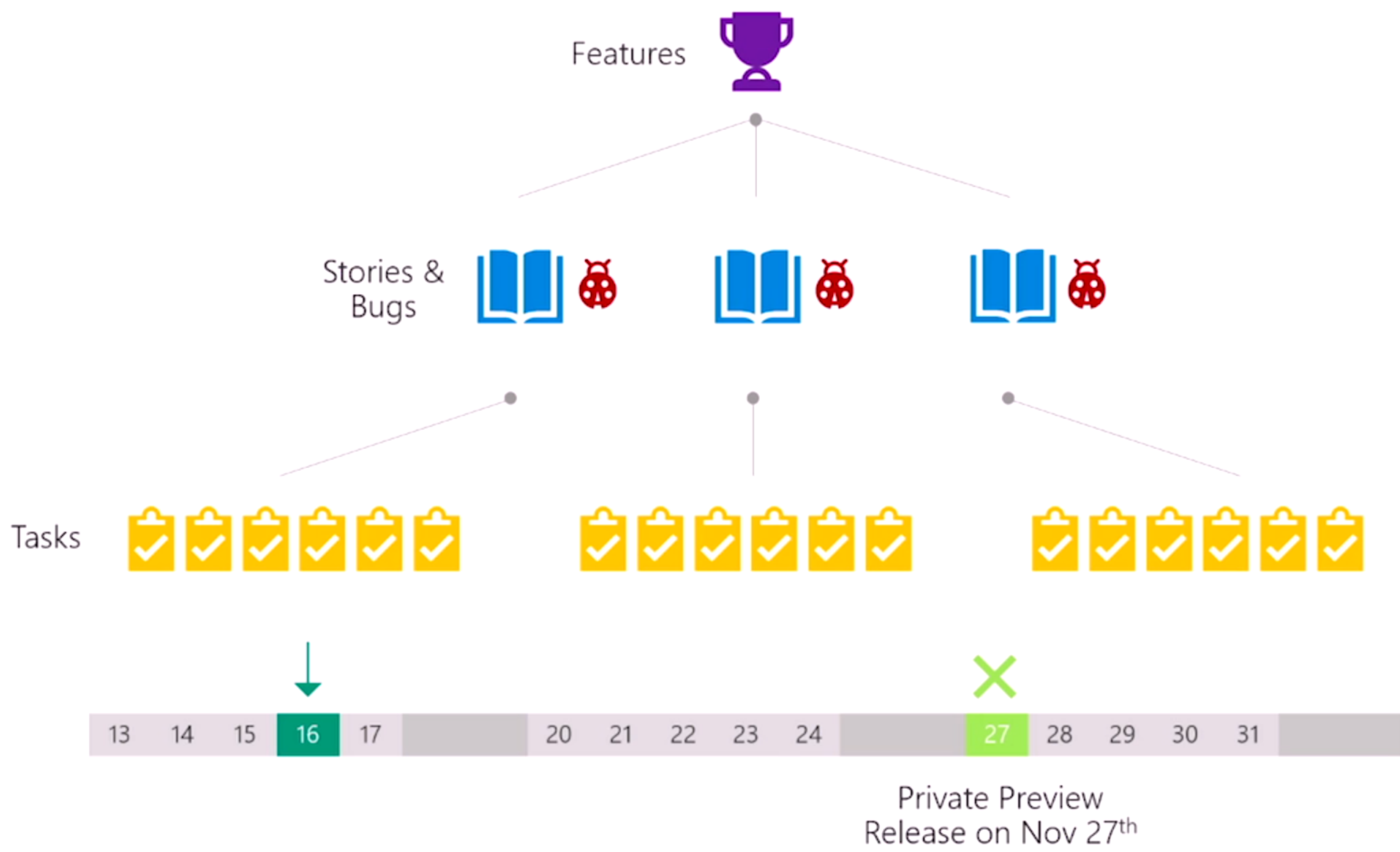
- Planning and Execution
- Tracking Progress
- Customisation
- Security
- Guidelines for Implementors

Scrum versus Kanban



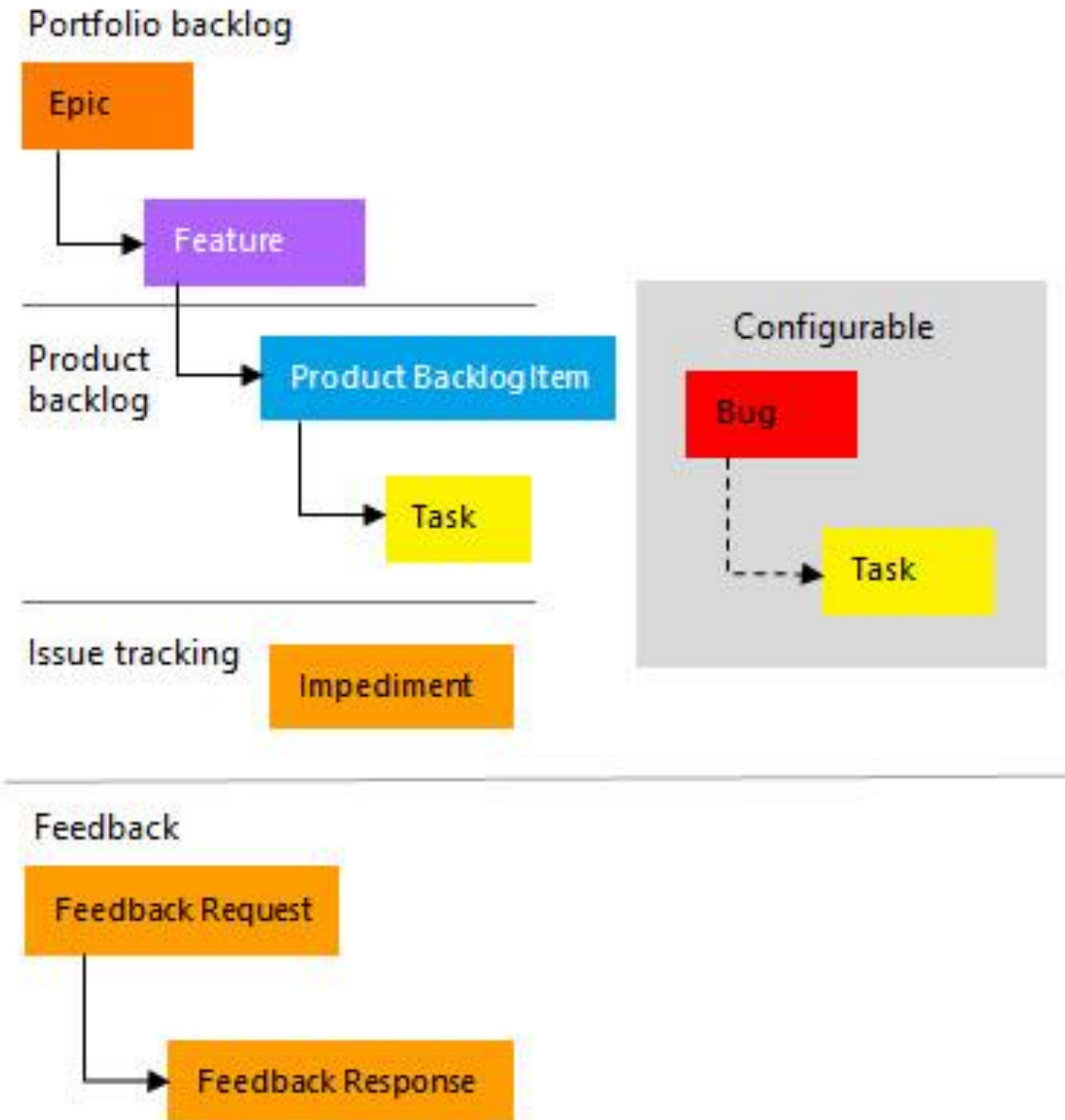
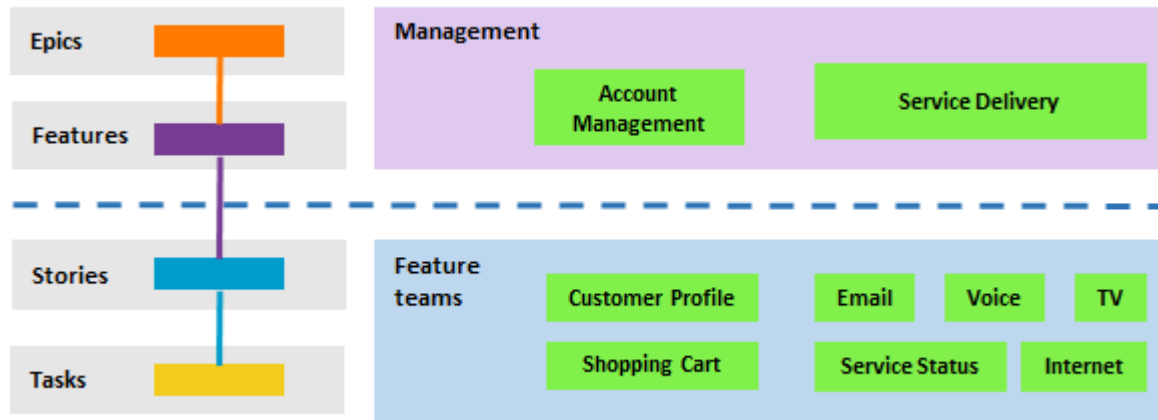
One Project, Multiple Teams & Delivery Styles








Work Item Hierarchies

- Epic – months
- Feature – week
- Stories – days
- Task – hours



Working with Team, Areas and Iterations

- Maintain teams and members
- Teams map to Area paths
- Change work item path to assign to sub teams
- Iterations align to sprint or Kanban releases

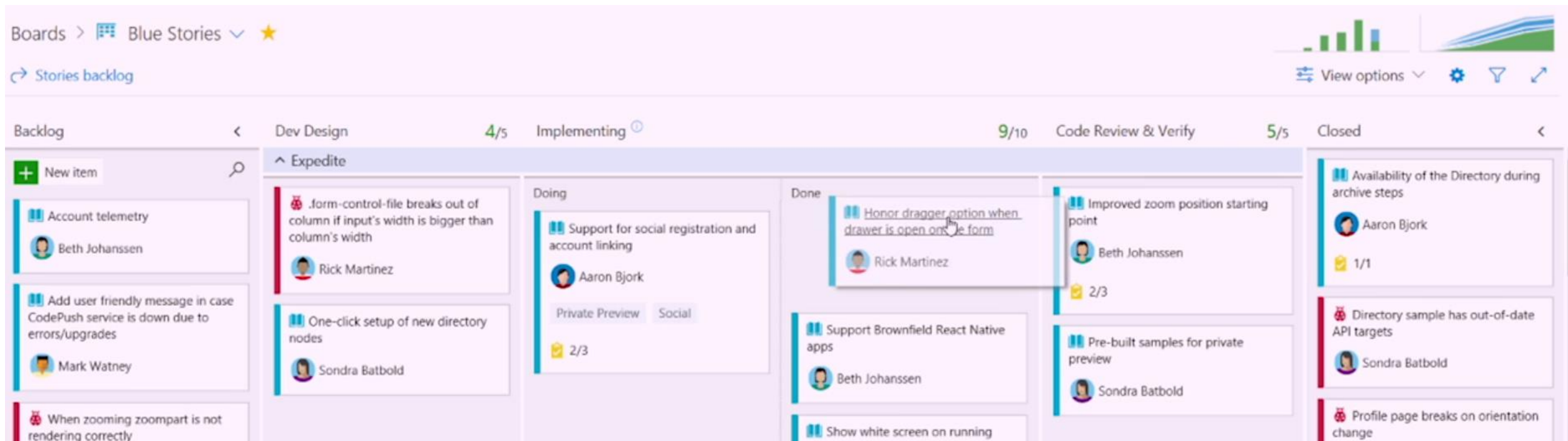
Team Name ↑		Members	Description
	Database	1	
	MyHealthClinic Team ...	1	The default project team.
	Web	1	Responsible for web monkeying

Areas		Teams
▼ MyHealthClinic		MyHealthClinic Team
Database		Database, MyHealthClinic Team
Web		MyHealthClinic Team, Web

Iterations	Start Date	End Date
▼ MyHealthClinic		
Sprint 1	7/24/2018	8/14/2018
Sprint 2	8/15/2018	9/5/2018
Sprint 3	9/6/2018	9/27/2018
Sprint 4	9/28/2018	10/19/2018
Sprint 5	10/20/2018	11/10/2018
Sprint 6	11/11/2018	12/2/2018
Sprint 7	12/3/2018	12/21/2018

Kanban Boards

- Left to right to progress stories
- Can split columns i.e. doing/done
- Can add definition of done
- Can set work in progress limit
- Add custom swim lanes i.e. expedite



Card Settings

- Customise work items
- Add custom fields
- Set styles to highlight specific cards
- Set custom tag colours

Settings

Cards

Fields

Styles

Tag colors

Annotations

Tests

Board

Columns

Swimlanes

Card reordering

Charts

Cumulative flow

Styles

Styling rules make the cards with important information stand out. When a work item matches more than one rule, the first rule is used.

+ Styling rule

Rule Name	Preview	Enabled	
High Effort	Title	<input checked="" type="checkbox"/>	...
Compliance	Title	<input checked="" type="checkbox"/>	...
Blocked	Title	<input checked="" type="checkbox"/>	...
High Priorities	Title	<input checked="" type="checkbox"/>	...

Save

Cancel

Scrum Team Backlog

- Leverage backlog to groom sprints
- Reorder your epics, features, stories by priority
- Drag stories into sprints
- Forecast velocity for upcoming sprints

Stories

Forecast On Parents Hide In progress items Show Mapping

New + - Create query Column options

Forecasting based on velocity of 12

Forecast	Order	Title	State	Story Points	Iteration Path	Tags
	1	> Live directory updates for all L1 changes	Active	5	Directory\1-Week Sprints\Sprint 13	
	2	> Tagging service adjusted to understand directory items	Active	8	Directory\1-Week Sprints\Sprint 13	
	3	> Cross account cache established	Active	3	Directory\1-Week Sprints\Sprint 13	
	4	> Directory browsing resulting in incomplete results	Active		Directory\1-Week Sprints\Sprint 13	
	5	Directory update slowness after large updates	Active		Directory	
Sprint 14	6	Mobile support for directory browsing	New	8	Directory	
	7	Directory search through the L0 header	New	5	Directory	
	8	Directory summaries for quick browsing	New	3	Directory	
	9	Small screen support for directory viewing	New	2	Directory	

Scrum Team Sprint View

- View Sprint in detail
- View work details to see capacity per team member

Work Items* Boards* Backlogs Queries* Plans

Orange Sprint 13

November 15 - November 20
3 work days remaining

Backlog Board Capacity

Work details On

New + - Create query Column options

Order	Title	State	Story...	Assigned To	Remaining...	Iteration Path
1	Live directory updates for all L1 changes	Active	5	Rick Martinez	10	Directory\1-Week Sprints\Sprint 13
	Async changes happen on all open pages in the dire...	New		Aaron Bjork	2	Directory\1-Week Sprints\Sprint 13
	APIs updated to support updates in real-time	Active		Aaron Bjork	6	Directory\1-Week Sprints\Sprint 13
	Design the "waiting" experience	New		Sondra Batbold	2	Directory\1-Week Sprints\Sprint 13
2	Tagging service adjusted to understand directory items	Active	8	Beth Johanssen	20	Directory\1-Week Sprints\Sprint 13
	Tag design improved to match directory pages	Active		Sondra Batbold	5	Directory\1-Week Sprints\Sprint 13
	APIs changed to support add/remove	Active		Beth Johanssen	5	Directory\1-Week Sprints\Sprint 13
	Admin changes for managing tags	New		Chris Beck	2	Directory\1-Week Sprints\Sprint 13
	Service improvements to stretch beyond current artifacxts	New		Beth Johanssen	2	Directory\1-Week Sprints\Sprint 13
	Tag changes reflected in real time	New		Rick Martinez	6	Directory\1-Week Sprints\Sprint 13
3	Cross account cache established	Active	3	Chris Beck	5	Directory\1-Week Sprints\Sprint 13
	Account cache updated to understand directories in diffe...	New		Chris Beck	3	Directory\1-Week Sprints\Sprint 13

Work details

Work Team

(37 of 39 h)

Work By: Activity

Work By: Assigned To

Unassigned (2 h)

Aaron Bjork (10 of 9 h)

Beth Johanssen (7 of 9 h)

Chris Beck (5 of 6 h)

Rick Martinez

Scrum Team Sprint Board

- Track burndown
- Maintain/add new tasks and hours
- Group by stories and people
- Filter by stories and people

The screenshot displays a Scrum Team Sprint Board for 'MyHealthClinic Team Sprint 2', running from August 15 to September 5 with 15 work days remaining. The interface includes a left sidebar with navigation options: Work Items, Backlogs (selected), Queries, and Plans. Under Backlogs, there are sections for Epics, Features, and Backlog items. The 'Past' section shows 'Current' and 'Sprint 2' (highlighted), while the 'Future' section shows 'Sprint 3' and 'Sprint 4'. The main board area is divided into columns: 'To do' (82 h), 'In progress' (20 h), and 'Done'. The 'To do' column contains two items: 'Show patient visit history over time periods - month & year' (72 h, assigned to craig109@outlo...) and 'Allow filtering of dates' (12 h, assigned to ckelly109@outl...). The 'In progress' column contains two items: 'Redesign the calendar page' (10 h, assigned to ckelly109@outl...) and 'Print patient visit history' (24 h, assigned to lsteel109@outlo...). The 'Done' column contains one item: 'Add New "Visit History" page' (assigned to Nikolai Blackie). The board also features a 'Collapse all' button and a 'Group by' dropdown set to 'Backlog items'.

Work Items Backlogs Queries Plans

MyHealthClinic Team Sprint 2

August 15 - September 5
15 work days remaining

Backlog Board Capacity

Group by Backlog items Person All

⌵ Collapse all

To do 82 h

- Show patient visit history over time periods - month & year (72 h)
craig109@outlo...
- Allow filtering of dates (12 h)
ckelly109@outl...
- Print patient visit history (24 h)
lsteel109@outlo...

In progress 20 h

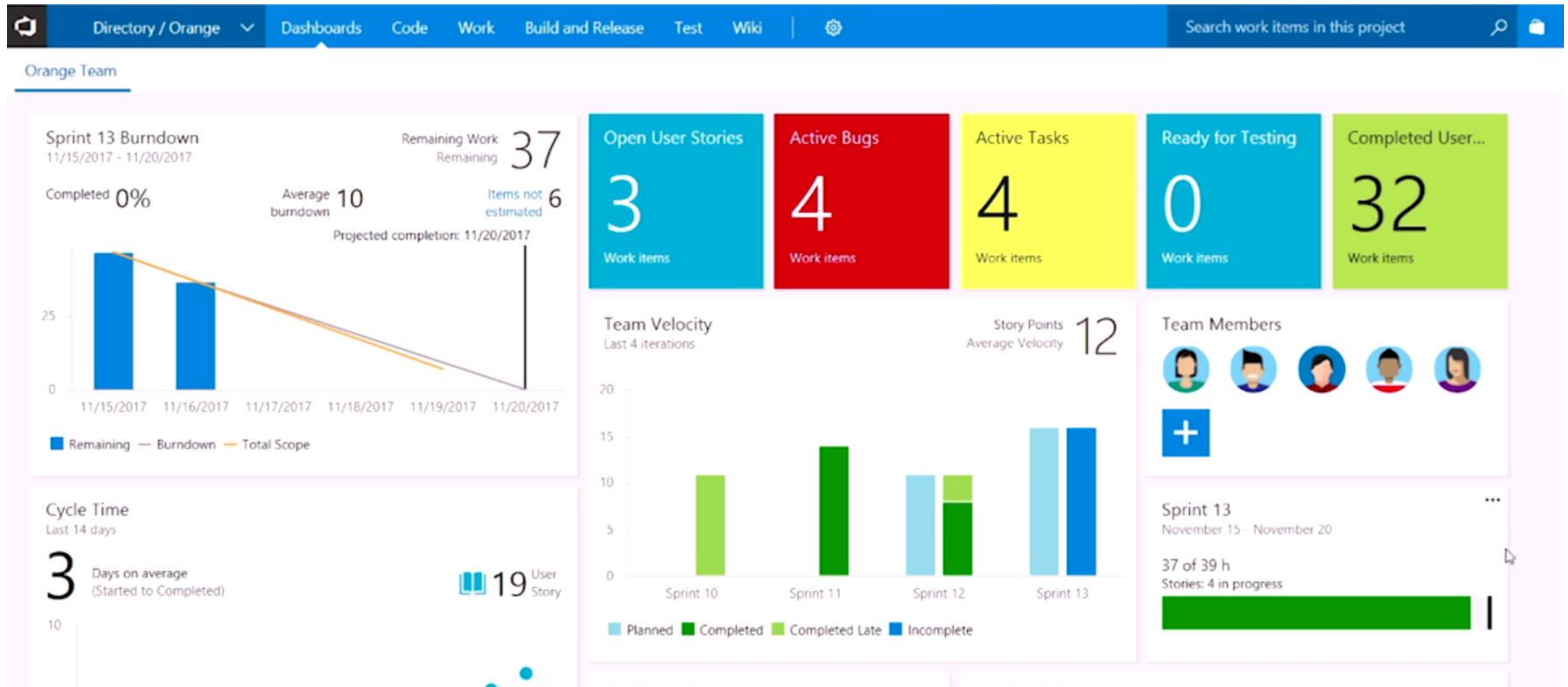
- Redesign the calendar page (10 h)
ckelly109@outl...

Done

- Add New "Visit History" page
Nikolai Blackie

Dashboards

- Views into project performance
- Easily customisable, drag and drop, configure each item



Tracking Across Teams with Delivery Plans


- Track multiple teams across projects
- Update items, filter views and set timescale
- Add markers to track milestones



Wikis for Collaboration

- # mention to add work items to release notes
- Great way to document SOPs, Release Plans etc

Private Preview (Nov. 27th)

 Sondra Batbold just now [Revisions](#)

Private Preview Release on Nov 27th

The following stories are being tracked for our private preview.

MVP

All stories below are required for a Private Preview. We'll review these daily in stand-up and send updates on any stories at risk of missing the Nov 27th date.

- User Story 76: E2E testing the SDK
- User Story 25: Directory updates asynchronously
- User Story 28: Live directory updates for all L1 changes
- User Story 28: Live directory updates for all L1 changes
- User Story 54: Support for social registration and account linking
- User Story 70: Mobile center support
- User Story 76: E2E testing the SDK
- User Story 111: Permissions on directory pages
- User Story 112: Directory changes reflected in the TOC immediately
- User Story 268: Item we need to plan for

MVP Bugs

Please remove bugs after they're resolved. Our goal is to drive this list to zero before EOD Thursday, Nov 23rd.

Filter pages

Pages

- Directory Wiki
 - Directory LSIs
 - Updated docs
 - Follow up owners
 - Directory branding
 - Conferences
 - Marketing tools
 - Private Preview (Nov. 27th)
 - Blog topics
 - Insiders list
 - Releases
 - API docs
 - Release Notes

Process Customisation






- Modify & Version Agile, Scrum and CIMM process
- Add and customise work items, backlogs, projects
- Create work item templates
- Tailor rules for mandatory fields

All processes > Custom Agile Process

Filter by

Work item types Backlog levels Projects

+ New work item type

Name	Description
 Bug	Describes a divergence between required and actual behavior, and tracks the work done to correct the defect and verify the correction.
 Epic	Epics help teams effectively manage and groom their product backlog
 Feature	Tracks a feature that will be released with the product
 Issue	Tracks an obstacle to progress.
 LSI	Live site incidents for the Directory service

Preview Features

- Can turn on and off via your profile
- Current previews
 - New build result page
 - New Navigation
 - New release progress views
 - New Releases Hub

Preview features

The following preview features are available for your evaluation. Help us make them better!

for me [Nikolai Blackie]



New build result page

☒ On

Lights up new build results page.

New Navigation

☐ Off

Turns on the new global navigation experience. [Learn more](#)

New release progress views

☐ Off

Turn on the new release views to visualize the progress of your deployment pipelines. [Learn more](#)

New Releases Hub

☐ Off

New experience to create folders and manage release definitions.

Marketplace Extensions

- Rich eco system of add ins
- Enhance your VSTS experience
- AT have over 24 Extensions (see Riki)

Extensions

 Refresh

 Security

 Browse Marketplace

Manage

Requested



Pester Test Runner Build Task

Run Pester tests without the need to install Pester in with the PMModule folder or in the source repo (Using Pester 3.4.3 or 4.3.1).

Richard Fennell (Black Marble)



Secure DevOps Kit (AzSK) CICD Extensions for Azure

Collection of extensions that empower DevOps teams to build and deploy applications on Azure with security integrated at every step.

Microsoft DevLabs



Semantic Versioning Build and Release Tasks

Easily use semantic versioning with these Build and Release Management tasks.

Geek Learning



SonarCloud

Detect bugs, vulnerabilities and code smells across project branches and pull requests.

SonarSource



SonarQube

Detect bugs, vulnerabilities and code smells across project branches and pull requests.

SonarSource



StyleCop Runner Build Task

VSTS Security

- Default Groups

- Project Groups Security




- Build Administrators – Devops doing CI
 - Release Administrators - Devops doing CD
 - Endpoint Roles – managing service endpoints
 - Contributors – Developers/testers
 - Readers - Stakeholders
 - Project Administrator – PMs, Devops setting up extensions

- Collection Groups (VSTS Account Wide) – limit memberships









- Teams

- Project Team Groups – setup sub teams

▼ Teams

- >  Database
- >  MyHealthClinic Team
- >  Web

▼ VSTS Groups

- >  Build Administrators
- >  Contributors
- >  Endpoint Administrators
- >  Endpoint Creators
- >  Project Administrators
- >  Project Valid Users
- >  Readers
- >  Release Administrators

AT Wiki - VSTS Guidelines for Implementors

- As a Project Manager
 - I want to setup a new project...
- As a Release Manager
 - I want a view of all inflight project and upcoming releases...
- As a Business Analyst
 - I want to define user story requirements and acceptance criteria...
- As a project participant (developer, support analyst, tester etc)
 - I want to estimate story tasks and total effort to implement...
- As a Stakeholder
 - I want to provide unsolicited feedback on features and user stories....

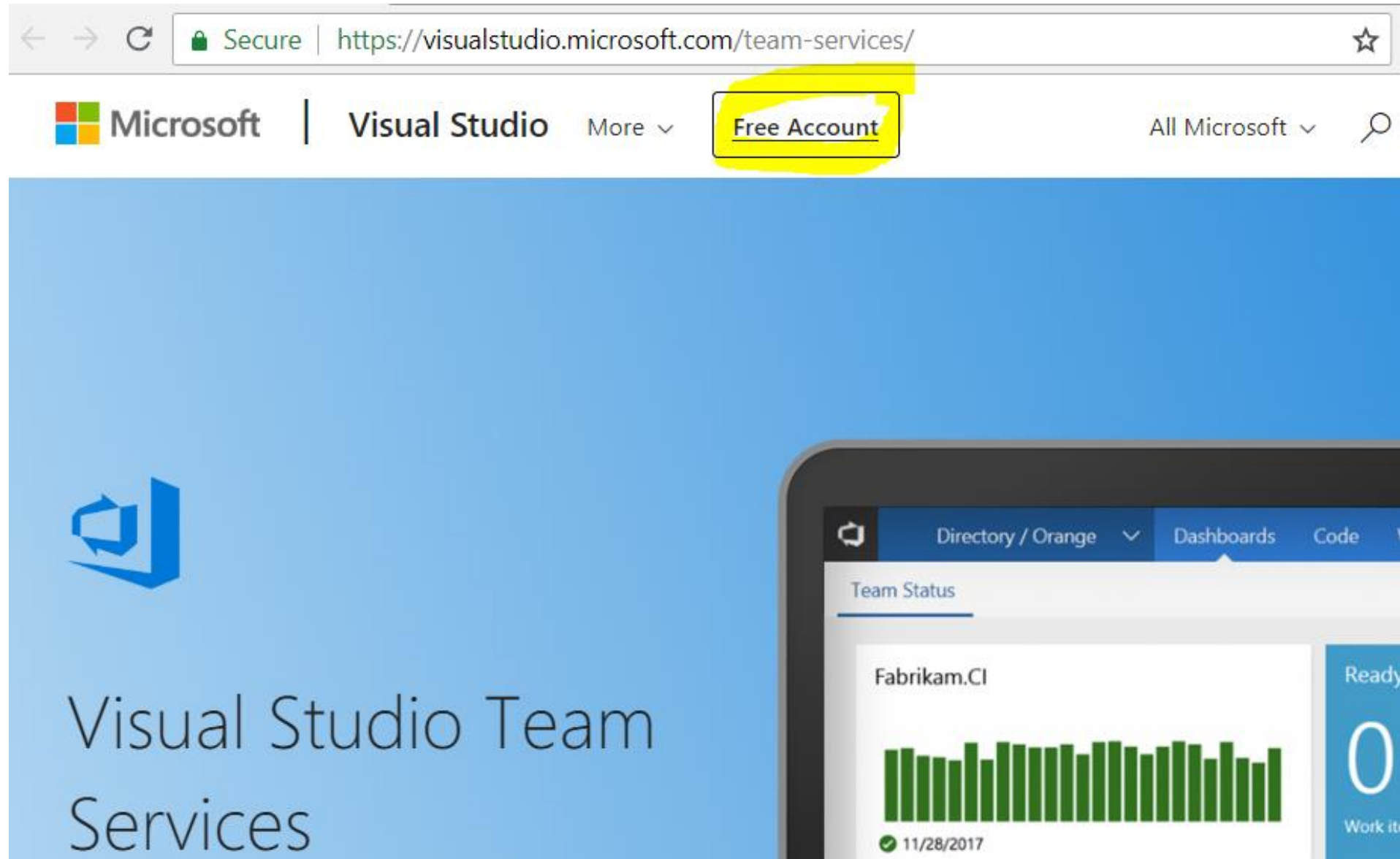
Lab: Agile Planning and Portfolio Management with Visual Studio Team Services

<https://almvsm.azurewebsites.net/labs/vsts/agile/>

Lab Pre-Requisites

- Visual Studio Team Services account. If you don't have one, you can create from [here](#)
- You can use the [VSTS Demo Data generator](#) to provision a project. Please use the *My Health Clinic* template to follow the hands-on-labs.
 - Use Microsoft Edge or Chrome Browser
 - Internet Explorer not supported

Create New VSTS Organisation



Create New VSTS Organisation

Visual Studio

Nikolai Blackie



Get started with Visual Studio Team Services

Services for teams to share code, track work, and ship software – for any language, all in a single package.

Create new organization


Host my projects at:

Pick a memorable name


.visualstudio.com

Manage code using:

☒  Git

☐  Team Foundation Version Control

We will host your projects in **Australia East** location.
You can share work with other **ICM Asia Pacific** users.

 [Change details](#)

Continue

Generate Data

Create New Project

Account Name :

adaptivintegration ▼

New Project Name :

HealthClinic

Selected Template :

MyHealthClinic

...

Verifying if all required extension(s) are installed and enabled

All required extensions are installed/enabled in your VSTS account.

✓ **Release Management Utility tasks**

✓ **Bower**

Create Project

Lab Notes

- Guidance & Issues

- Use either Microsoft Account with personal email, or create new organisation under AT login.
- Use [**VSTS Demo Data generator**](#) to provision a project
- Recommend using old navigation to match lab
- Ex 1 -> 10) Go to the settings for the default team
- Iterations will be prepopulated for health clinic team, set iterations at Web and DB team level
- If boards don't update, try refreshing page
- In sprint planning the examples don't match data (don't freak out)
- Might notice lots of unparented tasks
- When setting capacity leverage your account, demo team doesn't exist

- Stretch Goal – Assign between teams

- Go to backlog item and change area
- Navigate to team site and review changes to boards

- Stretch Goal – Delivery Plan

- Install Delivery Plans from Marketplace
- Setup new plan from Work tab and add all teams

Wrap Up & Questions



Microsoft





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