

COMMUNITY SUMMIT

San Antonio, Texas
October 13-17, 2024

The largest independent innovation, education, and training event for Microsoft Biz Apps



Using DevOps for Project Management

"DevOps is the union of people, process, and products to enable continuous delivery of value to our end users."

- Microsoft

Session Objectives

What will you learn today?

1. Identify where Azure DevOps can benefit project management
2. Understand the key components of Azure DevOps, including version control and work item tracking
3. Learn strategies for bridging the gap between development team and end users

Crazy Schedules?



← Today < > October 21-25, 2024 ▾

| | Mon 21 | Tue 22 | Wed 23 | Thu 24 | Fri 25 |
|-------|--------------------|--------------------|--------------------|----------------------|--------------------|
| 7 AM | | | | | |
| 8 AM | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] |
| 9 AM | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] |
| 10 AM | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] |
| 11 AM | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] |
| 12 PM | | | | [Hatched purple bar] | |
| 1 PM | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] |
| 2 PM | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] |
| 3 PM | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] |
| 4 PM | | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] | [Solid purple bar] |



Methodologies

Basic
Scrum
Agile
CMMI





dev.azure.com/mfunk0534/

Azure DevOps

mfunk0534

Projects My work items My pull requests

+ New project

Filter projects

MT Mandy Test 1

AP Agile Test Project
Project to combine documentation and client communication into one simple source of truth

Azure DevOps mfunk0534 / Mandy Test 1 / Overview / Summary

MT Mandy Test 1

Private Invite

About this project

Help others to get on board!
Describe your project and make it easier for other people to understand it.

+ Add Project Description

Project stats
Period: Last 7 days

Boards

| | |
|----------------------|------------------------|
| 6 Work items created | 6 Work items completed |
|----------------------|------------------------|

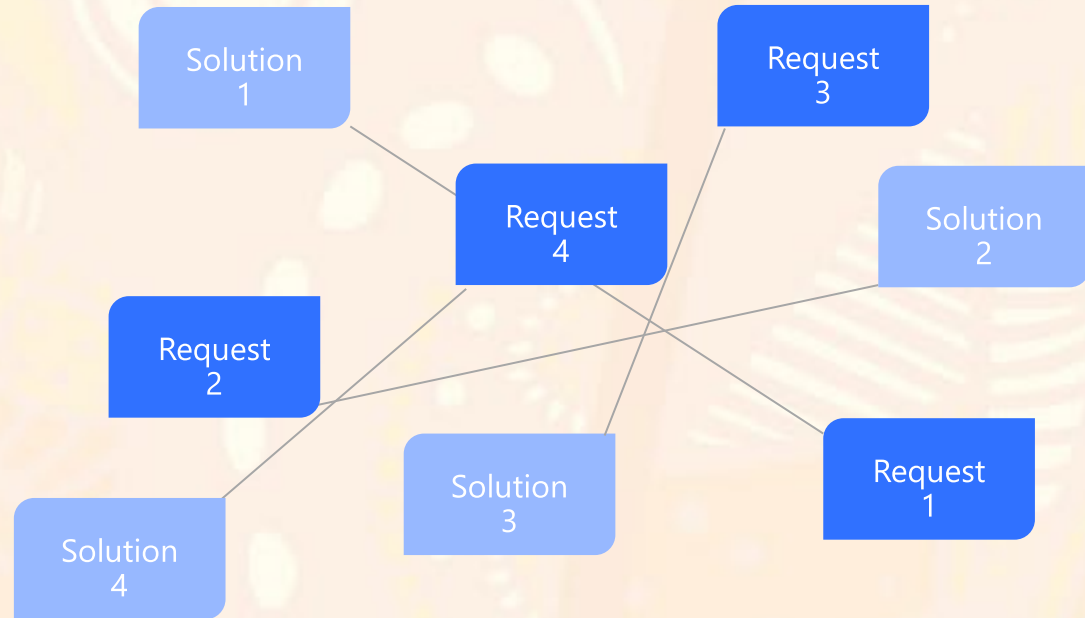
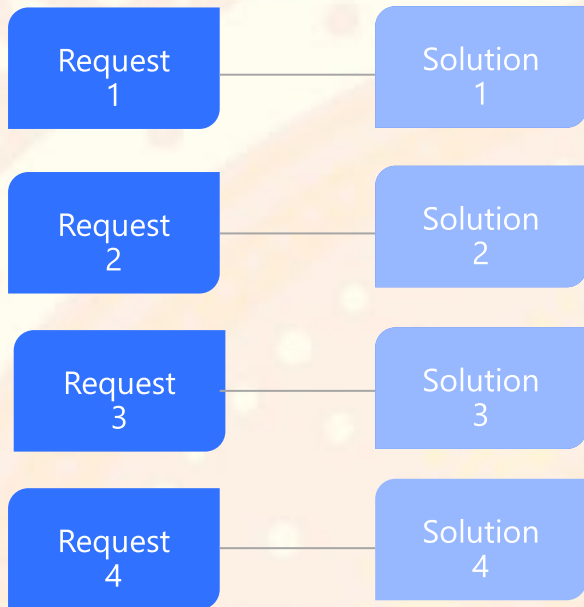
Members 1

MF

Organization settings

Project settings

How Do You Connect the Dots?



Work Item Build-Out



| Work Item Type | Title 1 | Title 2 | Title 3 | Title 4 | Description | Assigned To | State | Value Area | Tags | Activity |
|----------------|---|---------|---------|---------|---|-------------|-------|---------------|------|------------|
| Epic | Power Platform: Application Lifecycle Management (ALM) | | | | | | New | Architectural | | |
| Feature | Development Environment | | | | | | New | Architectural | | |
| User Story | Manage Security | | | | As a SysAdmin, I need to configure Solution(s) for Security | | New | Architectural | | |
| Task | Add Custom Objects to the Security Solution | | | | | | New | | | Deployment |
| User Story | Dev Env: Custom Solution | | | | As a Sys Admin, I need an environment to create and manage client specific solutions | | New | Architectural | | |
| Task | Define and Create Solution for Customizations | | | | | | New | | | Deployment |
| Task | Define & Create Solution for Security | | | | | | New | | | Deployment |
| Task | Obtain Power Platform Service Account | | | | | | New | | | Deployment |
| Task | Create Development Environment | | | | Dev Environment Name: | | New | | | Deployment |
| Task | Obtain Account for Security Testing | | | | Dev Environment URL: | | New | | | Deployment |
| Task | Create Environment Variables | | | | | | New | | | Deployment |
| User Story | Dev Env: Manage Solution | | | | As a SysAdmin, I need to configure Solution(s) for Customizations | | New | Architectural | | |
| Task | Add Existing XYZ Objects to be Modified and include as part of solution | | | | | | New | | | Deployment |
| Feature | Train Environment | | | | | | New | Architectural | | |
| User Story | Train Env: Custom Solution | | | | As a Business User, I need an environment that can be used for Testing and Training | | New | Architectural | | |
| Task | Create Training Environment | | | | Dev Environment Name: | | New | | | Deployment |
| User Story | Train Env: Deployment | | | | As a Sys Admin, I need to be able to Deploy a Managed Solution to the Train Environment | | New | Architectural | | |
| Task | Deploy Custom Solution in Test on MM/DD/YYYY | | | | | | New | | | Deployment |
| Task | Deploy Custom Solution in Test on MM/DD/YYYY | | | | | | | | | |
| Feature | Production Environment | | | | | | New | Architectural | | |
| User Story | Prod Env: Custom Solution | | | | As a Business User, I need an environment that is used to execute business | | New | Architectural | | |
| Task | Create Production Environment | | | | Dev Environment Name: | | New | | | Deployment |
| | | | | | Dev Environment URL: | | | | | |

dev.azure.com/mfunk0534/Mandy%20Test%201/_workitems/recentlyupdated/

Azure DevOps mfunk0534 / Mandy Test 1 / Boards / Work items

Work items

Recently updated | + New Work Item | Open in Queries | Column Options | **Import Work Items** | Recycle Bin

Filter by keyword

| ID | Title | Assigned To | State | Area Path | Tags | Comments | Activity Date |
|----|---|-------------|--------|--------------|------------|----------|-----------------------|
| 31 | Locate the data fields in the data source | Mandy Funk | Active | Mandy Test 1 | | | 10/8/2024 2:23:29 AM |
| 35 | Build 2 - Email Automation | Unassigned | New | Mandy Test 1 | Automation | | 9/30/2024 1:09:00 AM |
| 36 | Part 1 - Email Send | Unassigned | New | Mandy Test 1 | Automation | | 9/30/2024 12:59:40 AM |
| 10 | Automation 1 | Unassigned | New | Mandy Test 1 | Automation | | 9/30/2024 12:45:49 AM |
| 34 | Center of Excellence Metrics | Unassigned | New | Mandy Test 1 | | | 9/29/2024 9:32:53 PM |

Boards



Azure DevOps mfunk0534 / Mandy Test 1 / Boards / Boards

Mandy Test 1 Team

Board Analytics

View as backlog

Stories

| New | Active | Resolved | Closed |
|---|---|----------|--|
| <ul style="list-style-type: none">12 Build DevOps Board21 Build 1 - Step 123 Map Current State Process24 Identify Automation Process | <ul style="list-style-type: none">30 Determine where data lives | | <ul style="list-style-type: none">14 Create Slide Deck16 Create Outline |

Backlogs



Azure DevOps mfunk0534 / Mandy Test 1 / Boards / Backlogs

Mandy Test 1 Team

Backlog Analytics

| Order | ID | Work Item Type | Title | State | Effort | Tags | Busin... | Value Area |
|-------|----|----------------|---------------------------------|--------|--------|------------|----------|------------|
| 1 | 10 | Epic | Automation 1 | New | | | | Business |
| | 22 | Feature | Discovery | New | | Discovery | | Business |
| | 20 | Feature | Phase 1 Build | New | | Automation | | Business |
| | 11 | Feature | Project Presentation | Active | | | | Business |
| | 16 | User Story | Create Outline | Closed | | | | Business |
| | 12 | User Story | Build DevOps Board | New | | | | Business |
| | 14 | User Story | Create Slide Deck | Closed | | | | Business |
| 2 | 28 | Epic | Automation 2 | New | | | | Business |
| | 29 | Feature | Discovery | New | | Discovery | | Business |
| | 30 | User Story | Determine where data lives | Active | | | | Business |
| | 31 | Task | Look through AWS data | Active | | | | Business |
| | 33 | Bug | Credentials for AWS not working | New | | | | Business |
| | 32 | Task | Look in SQL for data points | New | | | | Business |

Planning

Drag and drop work items to include them in a sprint.

Mandy Test 1 Team backlog

Sprint 1 9/30/2024 - 10/4/2024
Planned Effort: 0 5 working days
1 2 1

+ New Sprint

Sprints



Azure DevOps mfunk0534 / Mandy Test 1 / Boards / Sprints

Mandy Test 1 Team

Taskboard Backlog Capacity Analytics

Sprint 2 Person: All

October 7 - October 11
2 work days remaining

| Collapse all | New | Active | Resolved | Closed |
|---|---|--|----------|---|
| <ul style="list-style-type: none">40 Manage Security<ul style="list-style-type: none">NewUnassigned | | <ul style="list-style-type: none">41 Add Custom Objects to the Security Solution<ul style="list-style-type: none">ActiveMandy Funk | | |
| <ul style="list-style-type: none">42 Dev Env: Custom Solution<ul style="list-style-type: none">NewUnassigned | <ul style="list-style-type: none">43 Define and Create Solution for Customizations<ul style="list-style-type: none">NewUnassigned47 Obtain Account for Security Testing<ul style="list-style-type: none">NewUnassigned | <ul style="list-style-type: none">45 Obtain Power Platform Service Account<ul style="list-style-type: none">ActiveMandy Funk | | <ul style="list-style-type: none">44 Define & Create Solution for Security<ul style="list-style-type: none">ClosedMandy Funk46 Create Development Environment<ul style="list-style-type: none">ClosedMandy Funk48 Create Environment Variables<ul style="list-style-type: none">ClosedMandy Funk |
| <ul style="list-style-type: none">49 Dev Env: Manage Solution<ul style="list-style-type: none">NewUnassigned | | <ul style="list-style-type: none">50 Add Existing XYZ Objects to be Modified and include as part of solution<ul style="list-style-type: none">Active | | |



Epics



👑 EPIC 10

10 Automation 1

👤 No one selected 💬 0 Comments Automation × +

Save Follow ⚙️ ↻ ↶

Updated by Mandy Funk: Just n

State ● New Area Mandy Test 1

Reason 🗄️ New Iteration Mandy Test 1


Details ⌚ 🔍 4 🔗 0

Description

Business Context:
Organization would like to change how users perform task A.

Hypothesis:
Automation will reduce the amount of time users spend manually performing task A. End users would only need to handle exceptions.

Discussion

 Add a comment. Use # to link a work item, @ to mention a person, or ! to link a pull request.

[switch to Markdown editor](#)

Planning



Priority: 2



Risk:

Effort:

Business Value:

Time Criticality:

Start Date:  

Target Date:  

Classification

Value area: Business

Deployment

To track releases associated with this work item, go to [Releases](#) and turn on deployment status reporting for Boards in your pipeline's Options menu. [Learn more about deployment status reporting](#)

Development

Add link

Link an Azure Repos [commit](#), [pull request](#) or [branch](#) to see the status of your development. You can also [create a branch](#) to get started.

Related Work

Add link ▾

[Add an existing work item as a parent](#)

Features



FEATURE 35

35 Build 2 - Email Automation

No one selected | 0 Comments | Automation

State: New | Area: Mandy Test 1 | Reason: New | Iteration: Mandy Test 1

Updated by Mandy Funk: Just now

Details | 2 | 0

Description

In Build 2 the focus is on automating the email portion of the process.

Discussion

Add a comment. Use # to link a work item, @ to mention a person, or ! to link a pull request.

[switch to Markdown editor](#)

Planning

Priority: 2
Risk
Effort
Business Value
Time Criticality
Start Date
Target Date

Classification

Value area: Business

Deployment

To track releases associated with this work item, go to [Releases](#) and turn on deployment status reporting for Boards in your pipeline's Options menu. [Learn more about deployment status reporting](#)

Development

Add link

Link an Azure Repos [commit](#), [pull request](#) or [branch](#) to see the status of your development. You can also [create a branch](#) to get started.

Related Work

Add link

Parent

[10 Automation 1](#)

User Stories



USER STORY 21

21 Build 1 - Step 1

No one selected

State ● New

Reason 🗝️ New

Description

build integration between point A and point B

Acceptance Criteria

[Click to add Acceptance Criteria.](#)

Discussion

MF

Add a comment. Use # to link a work item.

USER STORY 36

36 Part 1 - Email Send

0 Comments

No one selected

Area

Iteration

State ● New

Reason 🗝️ New

Description

As a business user, emails being sent to outside c

Schedule:
24 hours after x
follow-up 48 after first email

Acceptance Criteria

[Click to add Acceptance Criteria.](#)

Discussion

USER STORY 30

30 Determine where data lives

MF Mandy Funk

0 Comments Add Tag

State ● Active

Area Mandy Test 1

Reason 🗝️ Implementation started

Iteration Mandy Test 1\Sprint 1

Description

The data for this automation resides in multiple data sources. Discovery needs to determine if all the data needed can be found within one data source or if automation will need to pull data from multiple sources.

Data Points Required:

- Customer Name
- Customer Number
- Customer Address
- Customer City
- Customer State
- Sales Order Number
- Sales Order Date
- Sales Order Detail Lines
- Sales Order Status
- Invoice Number
- Invoice Date
- Invoice Status

Acceptance Criteria

[Click to add Acceptance Criteria.](#)

Discussion

MF

Add a comment. Use # to link a work item, @ to mention a person, or ! to link a pull request.

Planning

Story Points

Priority

2

Risk

Classification

Value area

Business

Tasks



TASK 32

32 Look in SQL for data points

No one selected 0 Comments Add Tag

Save Follow

State: ● New Area: Mandy Test 1 Updated by Mandy Funk: Sep

Reason: New Iteration: Mandy Test 1\Sprint 1 Details 1

Description Search SQL to determine if all data points are available.

Planning Priority

Deployment To track releases associated with this work item, go to [Releases](#) and turn on deployment status reporting for Boards in your pipeline's Options menu. [Learn more about deployment status reporting](#)

Discussion

MF Add a comment. Use # to link a work item, @ to mention a person, or ! to link a pull request.

TASK 31

31 Locate the data fields in the data source

MF Mandy Funk 0 Comments Add Tag

State: ● Active Area: Mandy Test 1 Updated by Mandy Funk: Just now

Reason: Work started Iteration: Mandy Test 1\Sprint 1 Details 2

Description Determine which tables within the data source provide the necessary fields needed.

Planning Priority: 2 Activity

Deployment To track releases associated with this work item, go to [Releases](#) and turn on deployment status reporting for Boards in your pipeline's Options menu. [Learn more about deployment status reporting](#)

Discussion

MF Add a comment. Use # to link a work item, @ to mention a person, or ! to link a pull request.

[switch to Markdown editor](#)

Effort (Hours)

Original Estimate: 1

Remaining

Completed

Development

Add link

Link an Azure Repos [commit](#), [pull request](#) or [branch](#) to see the status of your development. You can also [create a branch](#) to get started.

Implementation

Integrated in Build

Related Work

Add link

Parent

Queries



Queries > My Queries

Run query + New Save Column options

Results Editor Charts

Query type: Flat list of work items

Filters for top level work items

| And/Or | Field * | Operator | Value |
|------------------------------|----------------|----------|-------|
| <input type="checkbox"/> | Work Item Type | = | [Any] |
| <input type="checkbox"/> And | State | = | [Any] |

+ Add new clause

| ID | Work Item Type | Title | Assigned To | State | Tags |
|----|----------------|----------------------|-------------|--------|------------|
| 10 | Epic | Automation 1 | | New | Automation |
| 11 | Feature | Project Presentation | Mandy Funk | Active | |
| 12 | User Story | Build DevOps Board | | New | |
| 13 | Task | Create User Stories | | New | |
| 14 | User Story | Create Slide Deck | | Closed | |
| 15 | Task | Download Template | | Closed | |
| 16 | User Story | Create Outline | | Closed | |
| 17 | Task | Outline Topic 1 | | Closed | |
| 18 | Task | Outline Topic 2 | | Closed | |

AutoSave Off

File Home Insert Page Layout Formulas Data Review View Automate Help Connect

Clipboard Font Alignment Number

K12

| | A | B | C | D | E | F |
|----|----|----------------|---|-------------|--------|------------|
| 1 | ID | Work Item Type | Title | Assigned To | State | Tags |
| 2 | 10 | Epic | Automation 1 | | New | Automation |
| 3 | 11 | Feature | Project Presentation | Mandy Funk | Active | |
| 4 | 12 | User Story | Build DevOps Board | | New | |
| 5 | 13 | Task | Create User Stories | | New | |
| 6 | 14 | User Story | Create Slide Deck | | Closed | |
| 7 | 15 | Task | Download Template | | Closed | |
| 8 | 16 | User Story | Create Outline | | Closed | |
| 9 | 17 | Task | Outline Topic 1 | | Closed | |
| 10 | 18 | Task | Outline Topic 2 | | Closed | |
| 11 | 19 | Task | Outline Topic 3 | | Closed | |
| 12 | 20 | Feature | Phase 1 Build | | New | Automation |
| 13 | 21 | User Story | Build 1 - Step 1 | | New | Automation |
| 14 | 22 | Feature | Discovery | | New | Discovery |
| 15 | 23 | User Story | Map Current State Process | | New | |
| 16 | 24 | User Story | Identify Automation Process | | New | |
| 17 | 25 | Task | Create Features | | New | |
| 18 | 26 | Task | Create Epics | | New | |
| 19 | 27 | Task | Create Tasks | | New | |
| 20 | 28 | Epic | Automation 2 | | New | |
| 21 | 29 | Feature | Discovery | | New | Discovery |
| 22 | 30 | User Story | Determine where data lives | Mandy Funk | Active | |
| 23 | 31 | Task | Locate the data fields in the data source | Mandy Funk | Active | |
| 24 | 32 | Task | Look in SQL for data points | | New | |
| 25 | 33 | Bug | Credentials for AWS not working | Mandy Funk | New | |
| 26 | 34 | User Story | Center of Excellence Metrics | | New | |
| 27 | 35 | Feature | Build 2 - Email Automation | | New | Automation |

All Work Items

Project Report



Company

| Reporting Period | Project Status |
|-------------------------|----------------|
| October 01 – October 10 | On Track |

Project Objective/Description/Background

Automation Process ...

Automation Project Leads

PM –
Director –
Lead Consultant –
Consultant –

Open Items

| User Story | Task | Status |
|-----------------------------|---|------------------|
| Build DevOps Board | | Active |
| | Create User Stories | Active |
| | Create Features | Active |
| | Create Tasks | Active |
| Build 1 - Step 1 | | New |
| Map Current State Process | | Active |
| Identify Automation Process | | Active |
| Determine where data lives | | |
| | Locate the data fields in the data source | Internal Testing |
| | Look in SQL for data points | New |

Key Risks, Actions, Issues & Dependencies

Action: Update DevOps Board

Notes

Next Team Call scheduled for 10/18/2024
Testing Phase Scheduled to being week of 11/18

Project Budget

| Work Order | Hours Budget | Hours Used | \$ Budget | \$ Used | Notes |
|------------|--------------|------------|-----------|---------|-------|
| # 01 | | | | | |

Project Team Upcoming Out of Office Information

| Month | Team Member | Dates |
|----------|-------------|--|
| November | Team | 28 th -29 th (Holiday) |
| December | Team | 24 th -31 st (Holiday) |

Team

- End User 1
- End User 2
- Sponsor

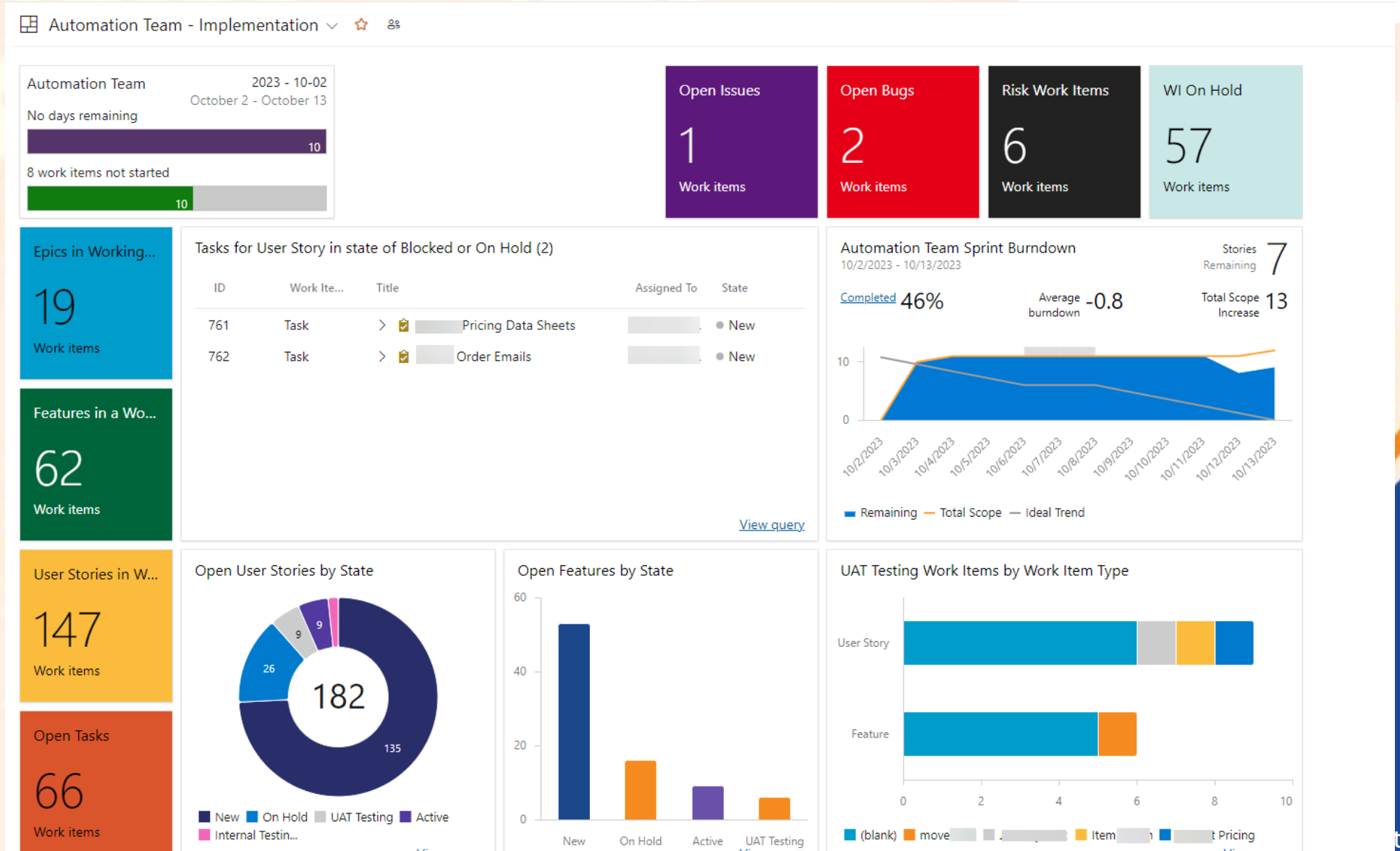
Communication Is Key



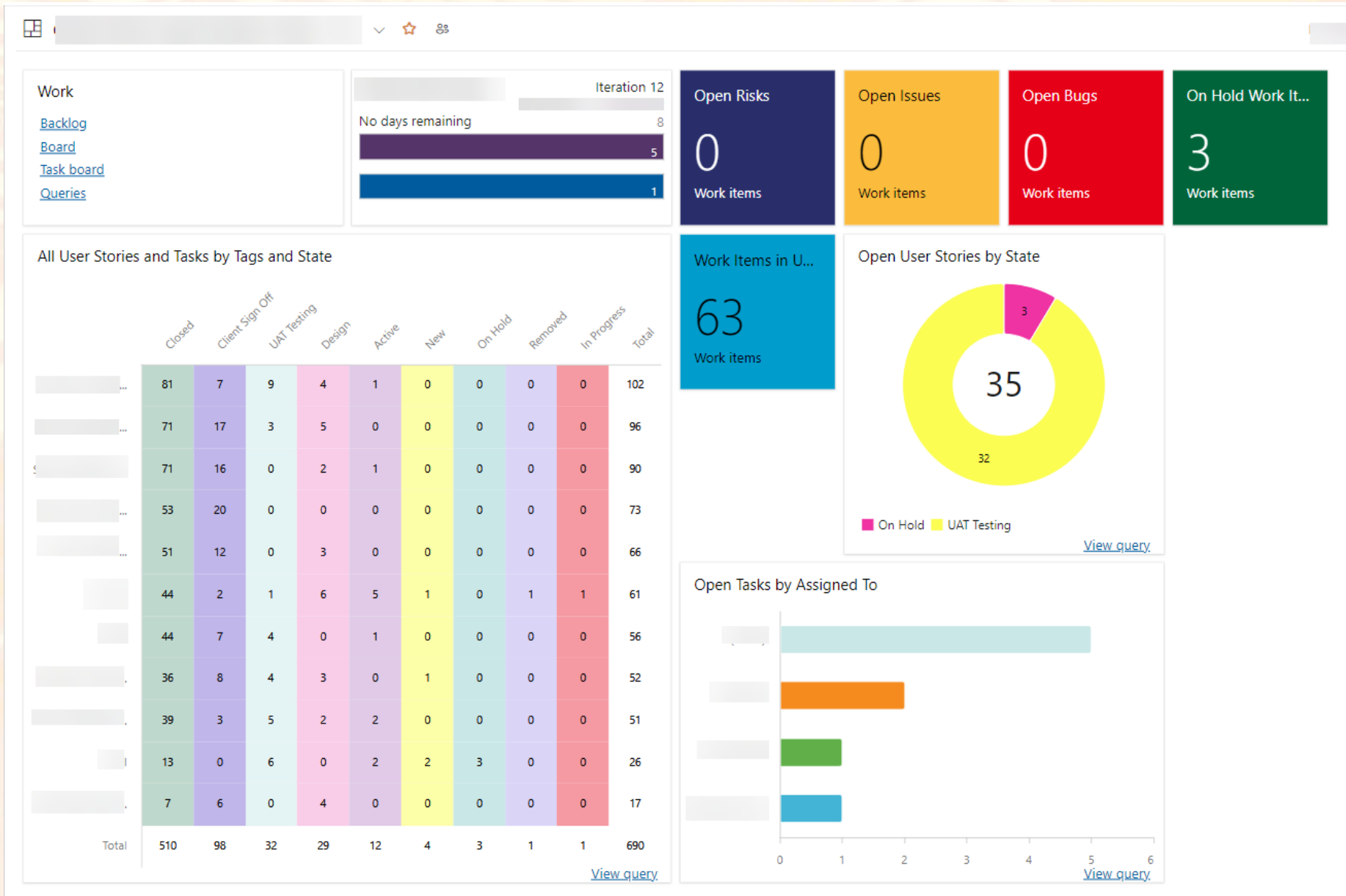
Dashboards



High Level Visualization of the project



Dashboards



Work Item History



USER STORY 30

30 Determine where data lives

Mandy Funk 0 Comments Add Tag

Save and Close Follow

State: Active Area: Mandy Test 1 Reason: Implementation started Iteration: Mandy Test 1\Sprint 1 Updated by Mandy Funk: Yesterday

Details 3 0

State Graph

New → Implementation started → Active

Mandy Funk Yesterday Mandy Funk Yesterday

History

Yesterday

- Mandy Funk changed State from New to Active and made field changes Sun 6:48 PM
- Mandy Funk changed State from to New, assigned Mandy Funk, restored the work item, and made other changes Sun 6:43 PM
- Mandy Funk added Child link Sun 6:47 PM
- Mandy Funk added Child link Sun 6:45 PM

Mandy Funk Mandy Funk changed State from New to Active and made field changes Sun 9/22/2024 6:48 PM

State: Active New Reason: Implementation started New Board Column: Active New Activated By: Mandy Funk

Suggested Resources

- Get started with Azure DevOps
 - <https://azure.microsoft.com/en-us/products/devops>
- Microsoft Learn
- Books, Blogs, Articles
- YouTube and other online video sites



The largest independent innovation, education,
and training event for Microsoft Biz Apps



**Thank you for
Attending!**

A Dynamics-First,
'For User, By User'
Event



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