# WorkshopPLUS - Essentials on Azure DevOps Services and GitHub

## Lab Guides

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# Module 6: Azure Boards - Work Items

### Lab 1: Azure Boards - Work Items

### Introduction

A work item is the basic building block of the project management and tracking capabilities in Azure DevOps. It represents requirements, bugs, issues, test cases, and risks. Work items capture and provide the information about the status and progress of a project.

Exercise 1: Working With Teams, Areas and Iterations

Exercise 2: Create Work Items

Exercise 3: Create a Work Item Query

Exercise 4: Working With Azure DevOps Using Excel

Exercise 5: Create a Work Item Template

## Objectives

After completing this lab, you will be able to:

- Create areas and iterations.
- Create work items.
- Create work item queries.
- Use Microsoft Excel as a client to create/edit work items in Azure DevOps.
- Create work item templates.

## **Prerequisites**

- Microsoft Excel
- Lab 2: PartsUnlimited Lab Setup

## Estimated Time to Complete This Lab

45 minutes

Module 6: Azure Boards - Work Items, Lab 1: Work Items, Exercise 1: Working with Teams, Areas and Iterations

## Exercise 1: Working with Teams, Areas and Iterations

## Objectives

After completing this exercise, you will be able to:

• Create teams, areas, and iterations

### **Prerequisites**

Lab 2: PartsUnlimited Lab Setup

#### Scenario

In this exercise, you will work with areas and iterations. Areas define either logical, physical, or functional boundaries, and iterations indicate different phases of the application development lifecycle.

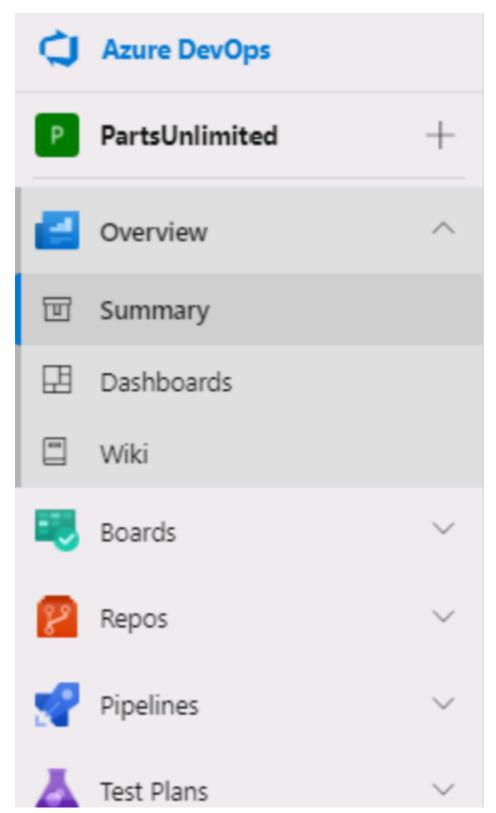
#### **Tasks**

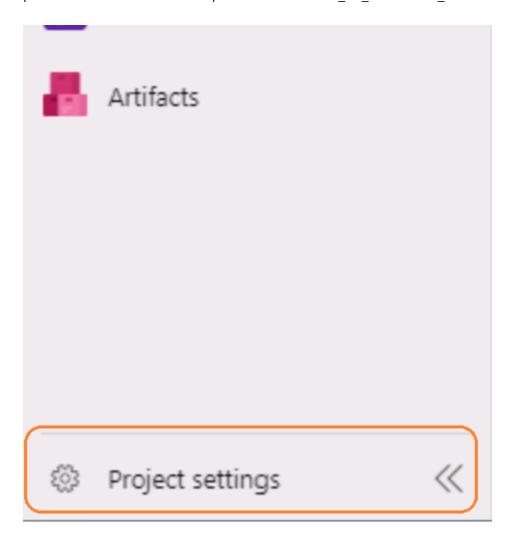
- Task 1: Create teams, areas, and iterations
- Task 2: Set permissions

Module 6: Azure Boards - Work Items, Lab 1: Work Items, Exercise 1: Working with Teams, Areas and Iterations

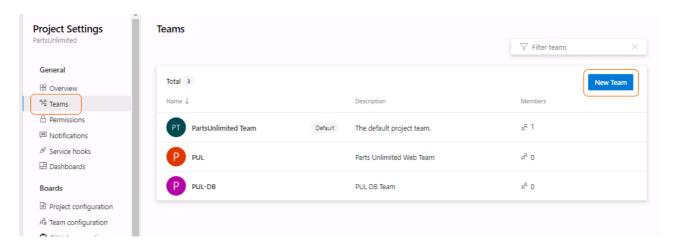
### Task 1: Create teams, areas, and iterations

- 1. Navigate to the browser and go to the **PartsUnlimited** project in Azure DevOps Services.
- 2. Open the settings page using the **Project settings** navigation located at the bottom-left corner of the page.

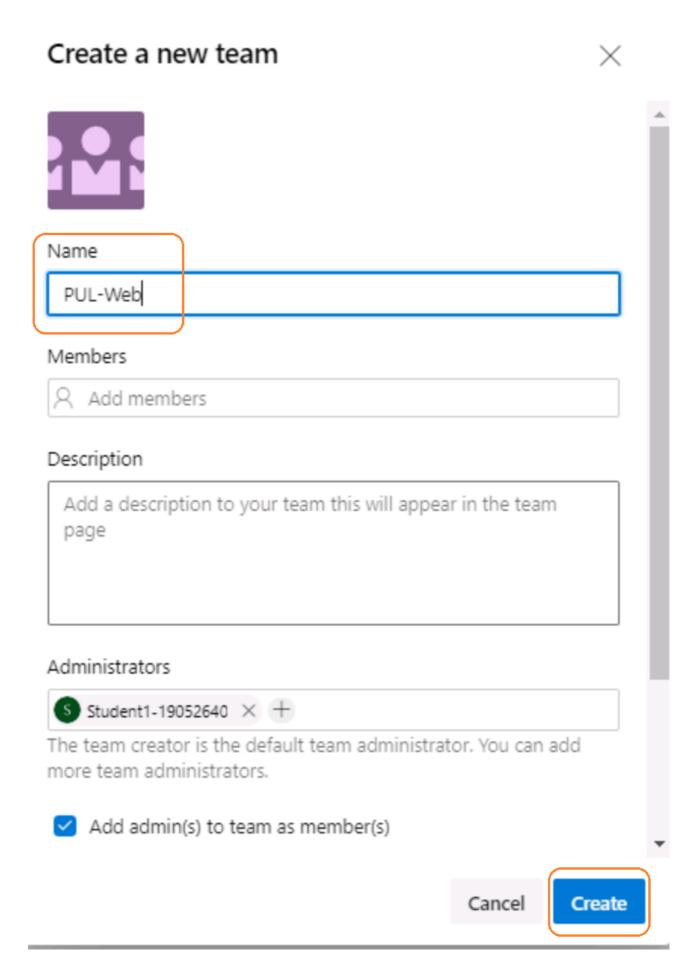




3. Select the **Teams** tab under General. There are already a few teams in this project, but you'll create a new one for this lab. Click **New Team**.

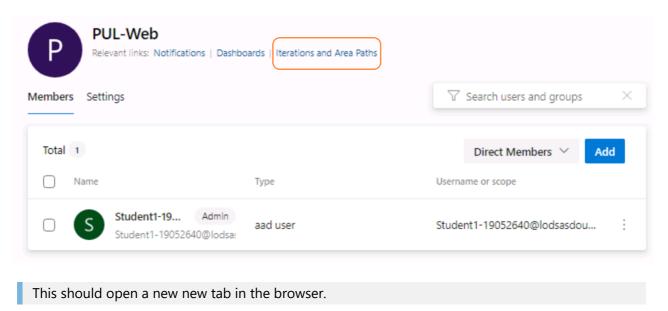


4. Use **PUL-Web** as the team **Name** and click **Create**.

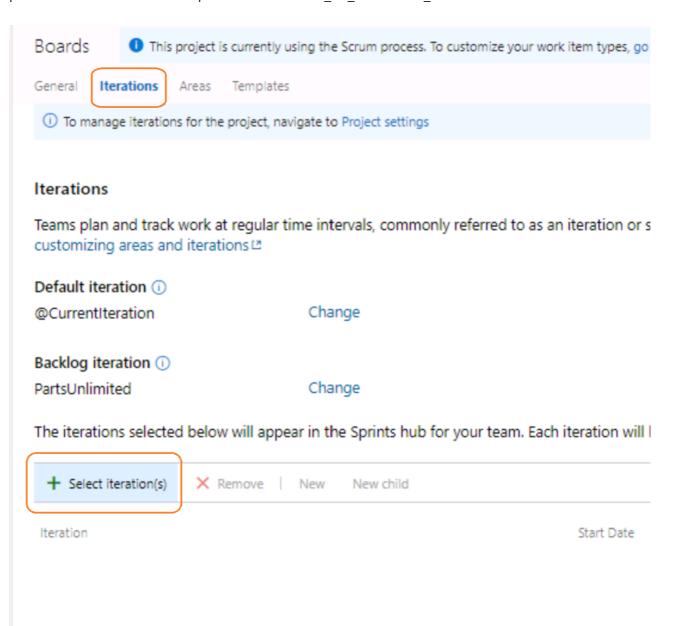


5. Select the newly created team to view its details.

6. By default, the new team has only you as its member. You can use this view to manage membership, notifications, dashboards, and more. But first you will want to define the schedule and scope of the team. Click **Iterations and Area Paths**.

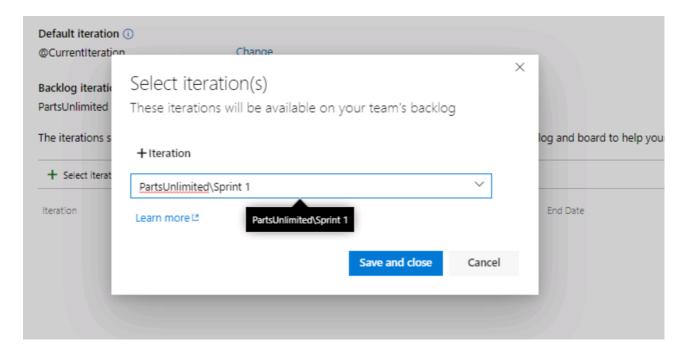


7. Select the **Iterations** tab and click **+ Select iteration(s)**. This team will use the same iteration schedule that's already in place for the other teams, although you can take a different route if that's better for your organization.



#### 8. Select PartsUnlimited\Sprint 1 and click Save and close.

Note that this first sprint has already passed. This is because the demo generator is designed to build out project history so that this sprint occurs in the past.



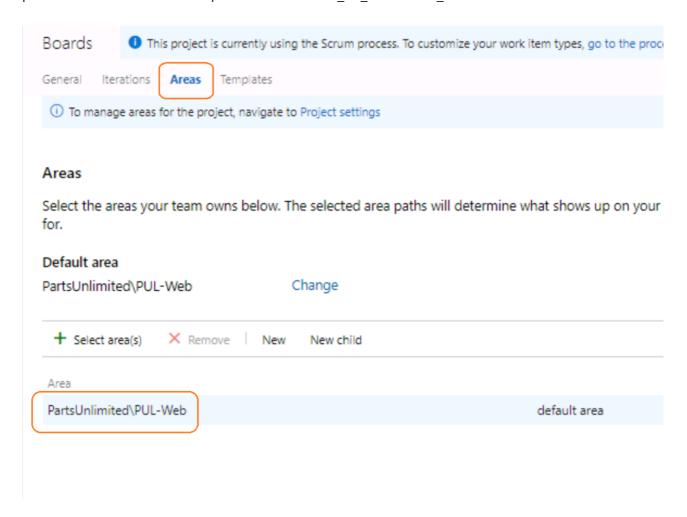
9. Repeat the process to add **Sprint 2** and **Sprint 3**. The second sprint is the current iteration, and the third is in the near future.

Your start and end dates for the sprints will be different.

The iterations selected below will appear in the Sprints hub for your team. Each iteration will have a backlog and board to help

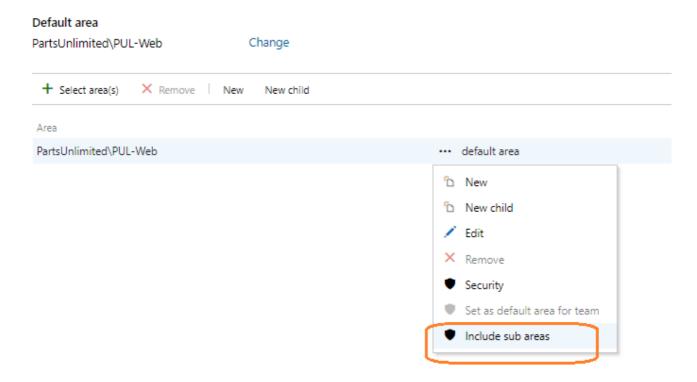


10. Select the **Areas** tab. By default, there is an area matching the name of the team.



#### 11. Click on the **Options** for the **PartsUnlimited\PUL-Web** area and select **Include sub areas**.

The default setting for all teams is to exclude sub-area paths. We will change it to include sub-areas so that the team gets visibility into all of the work items from all teams. Optionally, the management team could also choose to not include sub-areas, thereby removing work items from their view as soon as they are assigned to one of the teams.

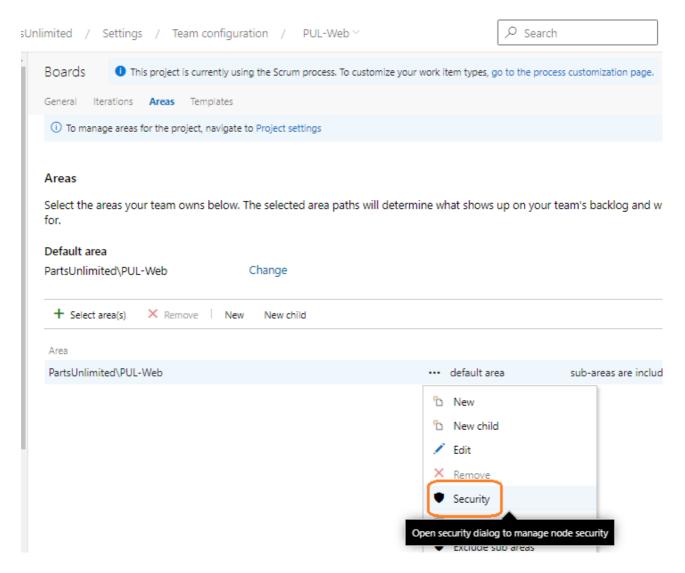


Module 6: Azure Boards - Work Items, Lab 1: Work Items, Exercise 1: Working with Teams, Areas and Iterations

#### Task 2: Set Permissions

You can secure and assign specific permissions to areas and iterations. By assigning permissions, you can scope the set of actions that users or groups can perform on work items or test plans that are assigned to an area or iteration. You can also restrict or allow users or groups to manage the project structure for an area or iteration.

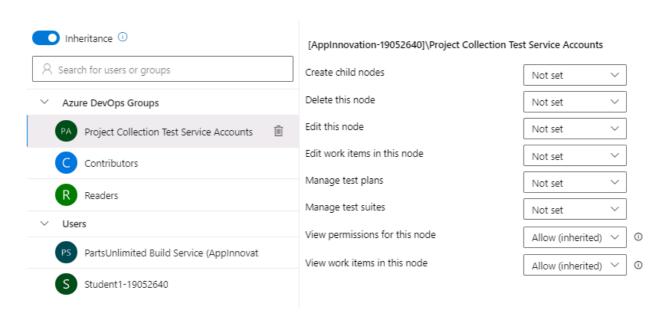
1. In the **Areas** tab, for the PUL-Web team of the PartsUnlimited project, click the action **options** menu for **PartsUnlimited\PUL-WEB** area, and then click **Security**.



2. Review the **Permissions for PUL-Web** dialog box to see what you can manage with permissions. Both areas and iterations can have permissions managed in this manner. Leave the permissions as they are and **close** the window.

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#### Permissions for PUL-Web



#### Module 6: Azure Boards - Work Items, Lab 1: Work Items, Exercise 2: Create Work Items

## Exercise 2: Create Work Items

## **Objectives**

Work items play a prominent role in Azure DevOps. Whether describing work to be done, impediments to release, test definitions, or other key items, work items are the workhorse of modern projects. In this task you'll focus on using various work items to set up the plan to extend the PartsUnlimited site with a product training section. While it can be daunting to build out such a substantial part of a company's offering, Azure DevOps and the Scrum process make it very manageable.

This exercise is designed to illustrate a variety of ways you can create different kinds of work items, as well as to demonstrate the breadth of features available on the platform. As a result, these steps should not be viewed as prescriptive guidance for project management. The features are intended to be flexible enough to fit your process needs, so explore and experiment as you go.

## Scenario

In this exercise, we will:

- Break down the product backlog items into tasks
- Introduce test cases
- Use Areas and Iterations from Exercise 1 when creating new work items
- Demonstrate work item linking concepts

## **Prerequisites**

Complete Exercise 1.

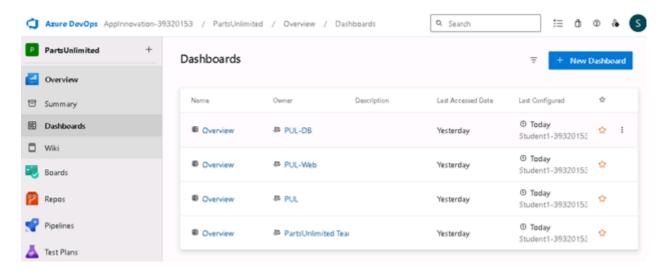
### Tasks

- Task 1: Create new Epic Work Item
- Task 2: Create a new Feature Work Item
- Task 3: Create a new Product Backlog Work Item
- Task 4: Create a new Task Work Item

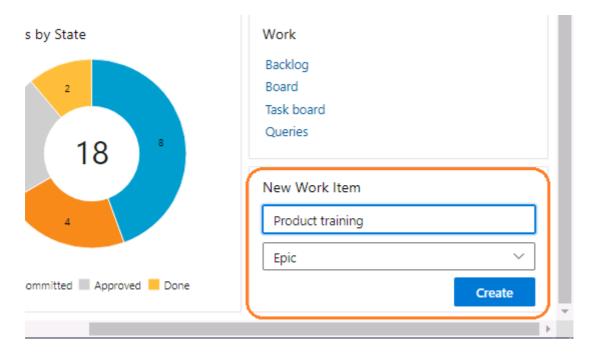
#### Module 6: Azure Boards - Work Items, Lab 1: Work Items, Exercise 2: Create Work Items

#### Task 1: Create new Epic Work Item

1. Within Azure DevOps Services browser page, make sure you are in the **PartsUnlimited** project. Select **Overview | Dashboards**.



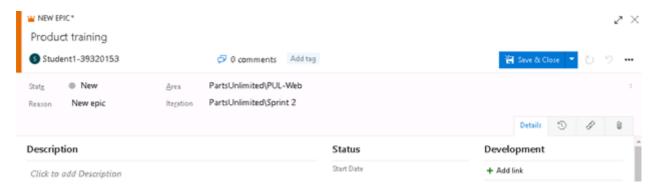
- 2. Select the **Overview** dashboard for the **PartsUnlimited Team**.
- 3. There are many ways to create work items in Azure DevOps, and you will explore a few of them here. Sometimes it's as simple as firing one off from a dashboard. Locate the **New Work Item** widget and select the **Epic** type from the dropdown. Enter the title name as **Product training** and click **Create**.



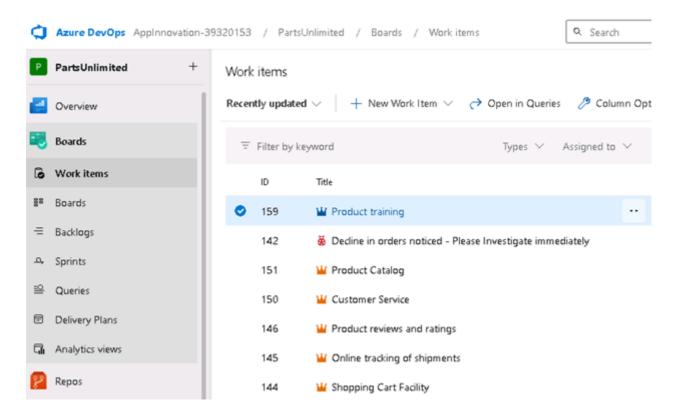
- 4. The previous step should have opened the window for creating new Epic. Set the following information for this epic.
  - Assign the epic to yourself
  - Area to PartsUnlimited\PUL-Web

- Iteration to PartsUnlimited\Sprint 2
- o click Save & Close

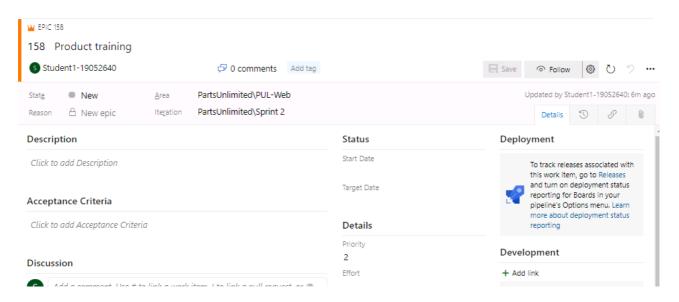
Ordinarily you would want to fill out as much information as possible, but you can run lean here for the purposes of this lab.



5. Select Boards | Work Items.



6. Locate the newly created epic **Product training** and open it.

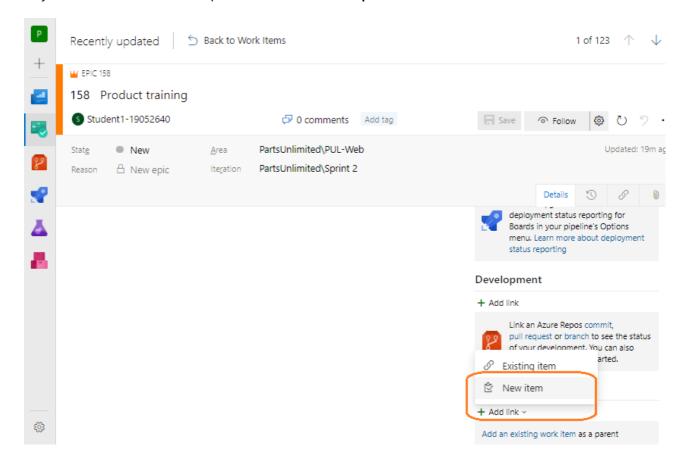


The work item form includes everything you could ever want to know about a work item. This includes details about who it's assigned to, its status across many parameters, and all the associated information and history for how it has been handled since creation.

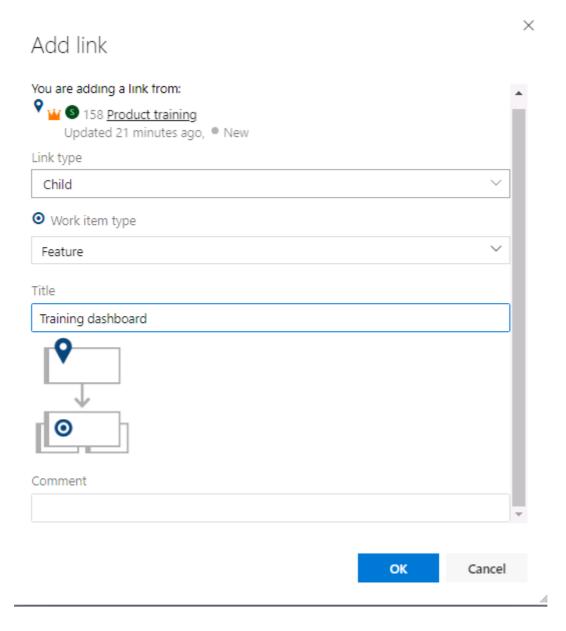
#### Module 6: Azure Boards - Work Items, Lab 1: Work Items, Exercise 2: Create Work Items

#### Task 2: Create a new Feature Work Item

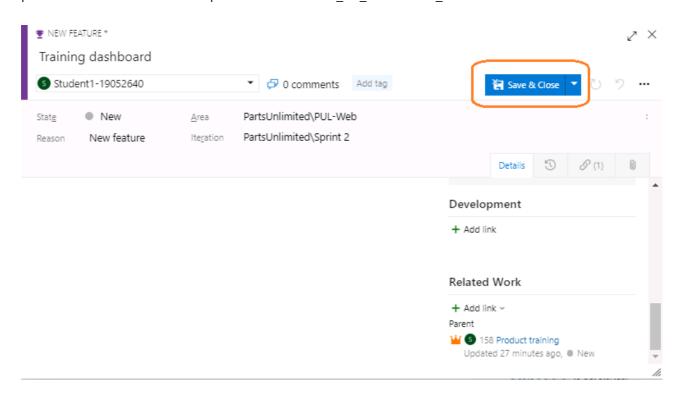
1. With the **Product training** epic work item still open, focus on the **Related Work** section. One of the ways to add a feature to this epic is to select **Add link | New item**.



- 2. In the **Add link** dialog box, set following information:
  - o Link type: Child
  - Work item type: Feature
  - Title: Training dashboard
  - Click OK



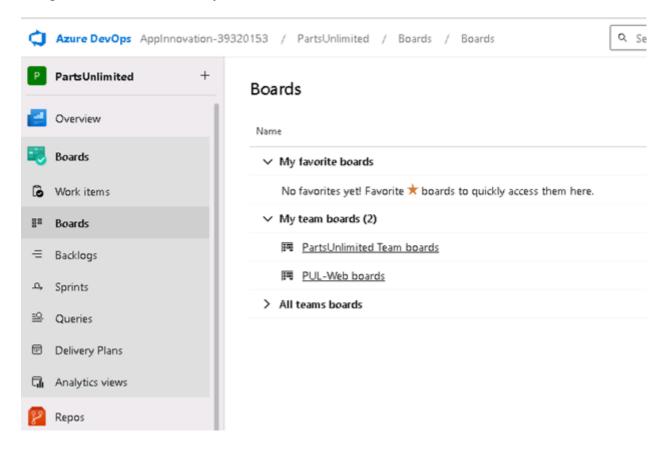
3. A **New Feature** work item should have opened now with Assignment, Area, and Iteration already set to the same values as the parent epic. The Feature should even be linked to the parent item it was created from. Click **Save & Close**.



#### Module 6: Azure Boards - Work Items, Lab 1: Work Items, Exercise 2: Create Work Items

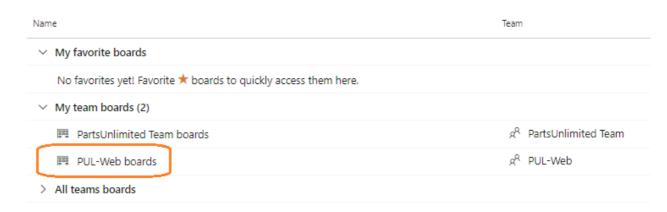
## Task 3: Create a new Product Backlog Work Item

1. Navigate to the **Azure Boards | Boards**.

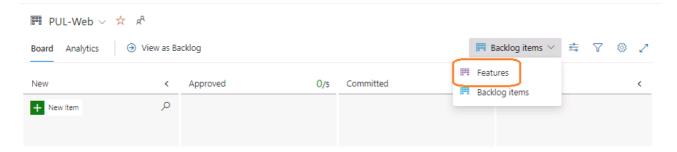


2. Select **PUL-Web boards**. This will open the board for that particular team.

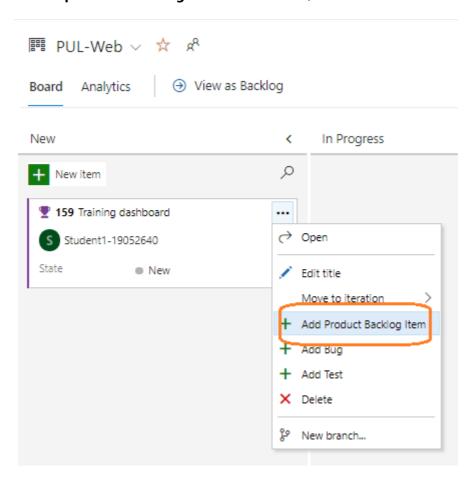
#### **Boards**



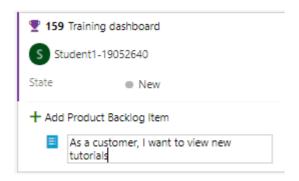
3. Switch the board from showing Backlog items to showing **Features**. This will make it easy to add tasks and other work items to the features.



4. Select Options for Training dashboard Feature, select Add Product Backlog Item.

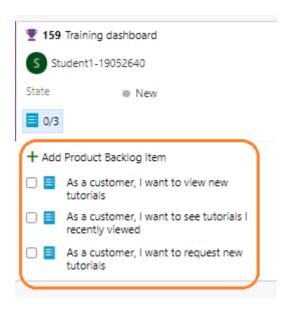


5. Name the first backlog item **As a customer, I want to view new tutorials** and press **Enter** to save. This creates a new Product Backlog Item (PBI) work item that is a child of the feature and shares its area and iteration.

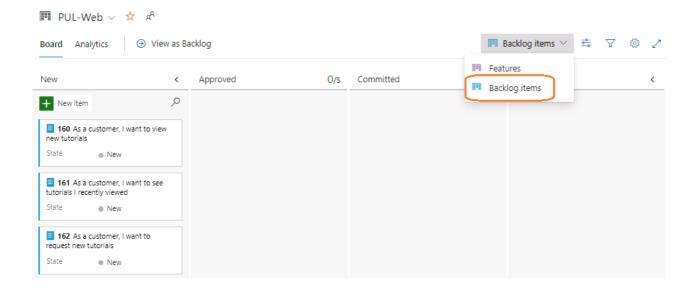


- 6. Add two more PBIs designed to enable the customer to see their **recently viewed tutorials** and **to request new tutorials**.
  - o As a customer, I want to see tutorials I recently viewed

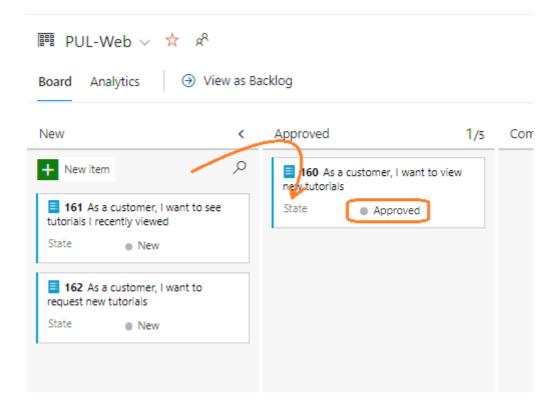
o As a customer, I want to request new tutorials



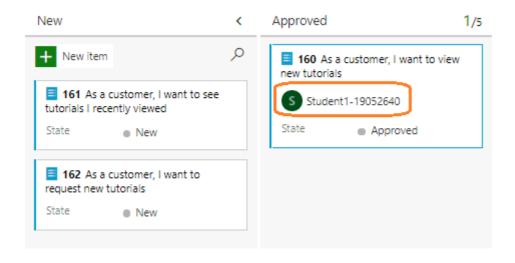
7. Switch the board view back to **Backlog items**.



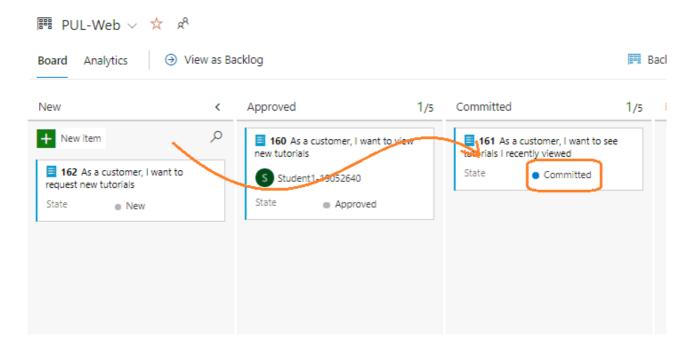
8. Backlog items have a state that defines where they are relative to being completed. While you could open and edit the work item using the form, it's easier to just drag cards on the board. Drag the first work item to **Approved**.



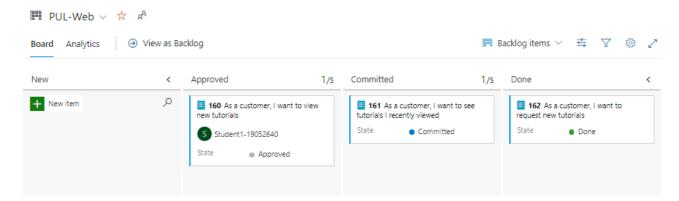
9. Assign the moved PBI to yourself.



10. Drag the second work item to the **Committed** stage.



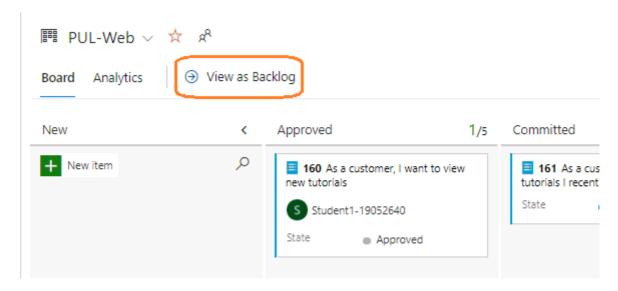
11. Drag the final PBI to the Done stage.



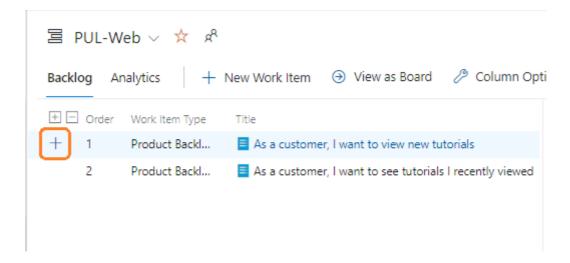
### Module 6: Azure Boards - Work Items, Lab 1: Work Items, Exercise 2: Create Work Items

#### Task 4: Create a new Task Work Item

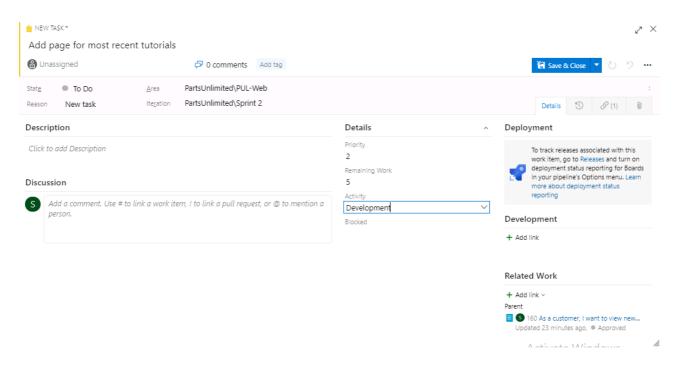
1. Click on **View as Backlog**. The board is one view, you can switch to the backlog view easily.



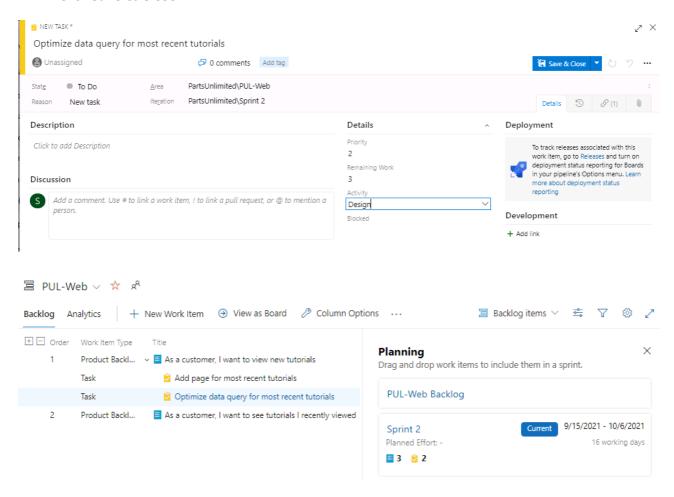
2. Another easy way to create work items is using the **Add** button on the backlog. Click it to add a **new task** to the first backlog item.



- 3. Create the task with following details:
  - Title: Add page for most recent tutorials
  - Remaining Work: 5
  - Activity: **Development**
  - Click Save & Close



- 4. Add another task with following details:
  - o Title: Optimize data query for most recent tutorials
  - Remaining Work: 3
  - Activity: **Design**
  - Click Save & Close



#### Module 6: Azure Boards - Work Items, Lab 1: Work Items, Exercise 3: Create a Work Item Query

## Exercise 3: Create a Work Item Query

### **Objectives**

After completing this exercise, you will be able to:

• Create and edit work item queries.

#### Scenario

At times, you might want to view the work items you created. For example:

- You may want to view only the tasks that are assigned to you.
- When testing the application, you may want to view only the test cases that are assigned to you.
- You may also want to see a varying degree of details of the work item at a glance.

You will create work item queries to retrieve work items with the criteria we want.

## **Prerequisites**

Complete Exercise 2.

#### Tasks

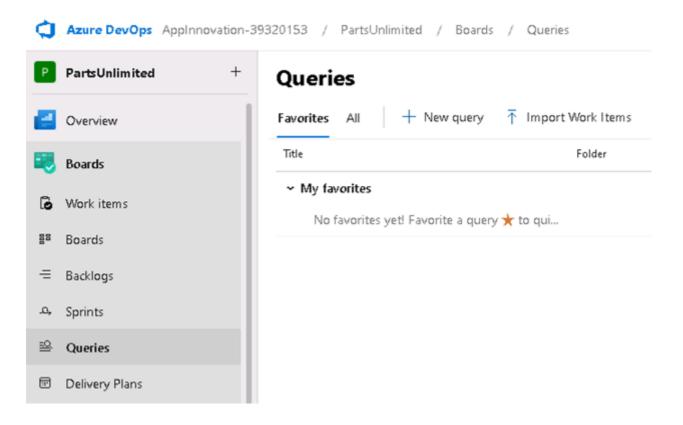
- Task 1: Show all Work Items assigned to You
- Task 2: Add Columns to Query
- Task 3: Change the List Layout
- Task 4: Run a Query

#### Module 6: Azure Boards - Work Items, Lab 1: Work Items, Exercise 3: Create a Work Item Query

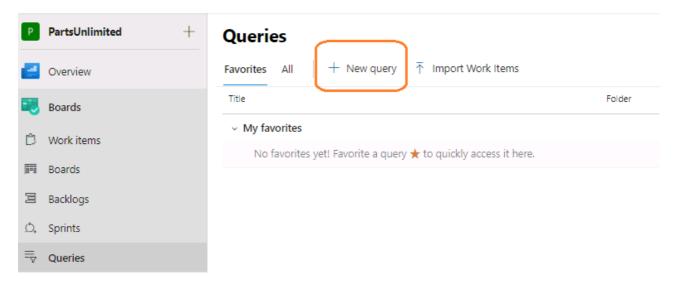
## Task 1: Show all Work Items assigned to You

You will create a work item query that displays all the work items assigned to you in the current iteration. A work item query is made up of filter(s) and column(s). A filter specifies which work items should be included in the result by specifying a value for each column that you want to filter. A work item's column that does not contain the value you specify will not be included in the results. A column shows the details for the work items that you want to see in the results.

1. In the web browser, make sure you have logged into Azure DevOps Services and are within the **PartsUnlimited** project. Select **Boards | Queries**.

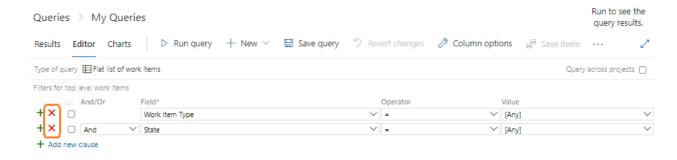


#### 2. Click on **New query**.

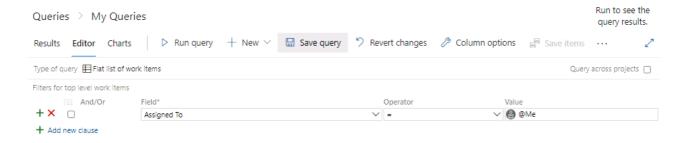


By default, the query already includes three default filters: **Work Item Type**, **State** and **Team Project** (hidden).

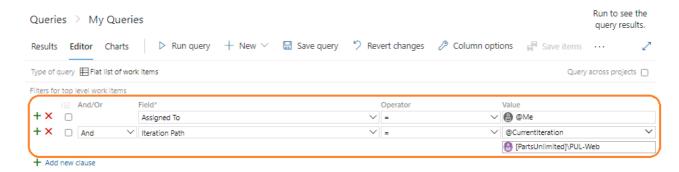
3. **Remove** the **Work Item Type** and **State** filters. To delete a filter, click the Remove button for each filter.



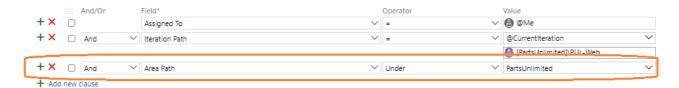
4. Click the first row and add a filter that will contain the field **Assigned To**, and set its value to **@Me**.



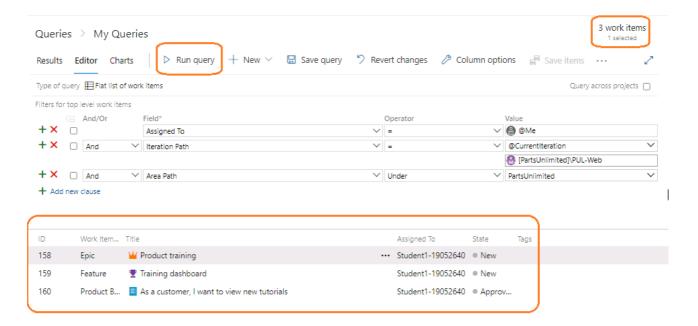
- 5. To add a new filter, click **Add new clause**.
- 6. Set the field to **Iteration Path** and the value to **@CurrentIteration**. This filter also requires the **Team filter**, and in the last row that has been populated for the team, select **[Parts Unlimited]\PUL-Web**.



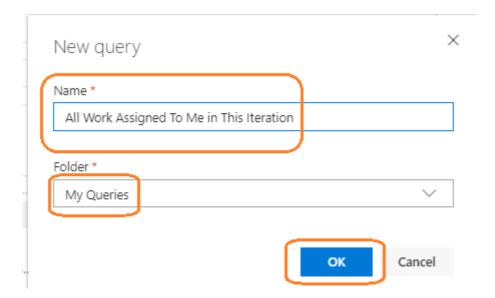
7. Add another filter for **Area Path**. Set the operator to **Under** and the value to **PartsUnlimited**. That means work items having the Area Path *PUL*, *PUL-DB* or *PUL-Web* will be included in the results.



8. To test the query, click **Run query**. You will see the number of work items that match your criteria in the **top-right corner** of the screen.



9. To save the query, click the **Save query** button at the top of the query editor. In the New Query dialog box, in the Name box, type **All Work Assigned To Me in This Iteration**, and select the folder **My Queries**. Then click **OK**.

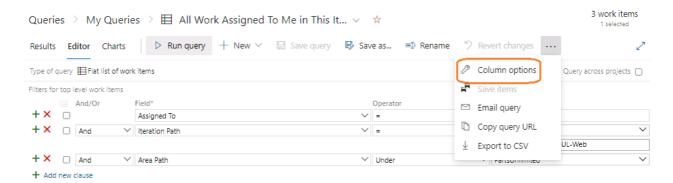


#### Module 6: Azure Boards - Work Items, Lab 1: Work Items, Exercise 3: Create a Work Item Query

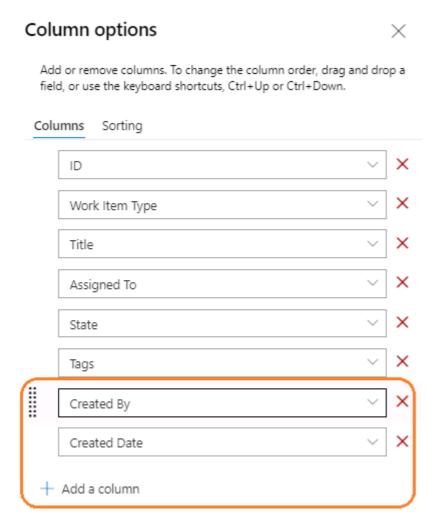
## Task 2: Add Columns to Query

You are now getting the results you desired. However, you also want to see at a glance who created the work item and when.

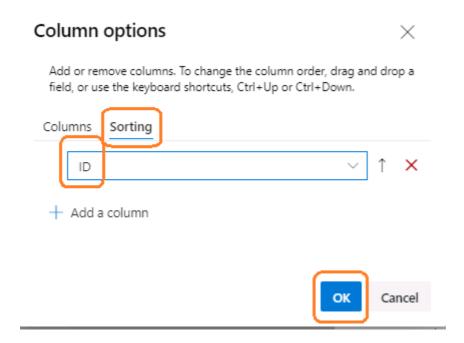
1. Click More commands and select Column options at the top of the query editor.



2. In the Column options dialog box, click **Add a column** and select **Created By**. Click once more to **Add** a **column** and select **Created Date**.



3. Having the Column options dialog box still open, click the **Sorting** tab to determine how you want the result to be sorted. Click **Add a column** and select **ID**. Then click **OK** to close the Column options dialog box.



4. The results will be refreshed. Click Save query.



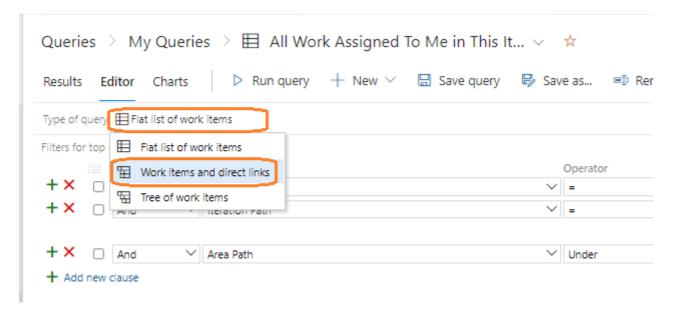
#### Module 6: Azure Boards - Work Items, Lab 1: Work Items, Exercise 3: Create a Work Item Query

## Task 3: Change the List Layout

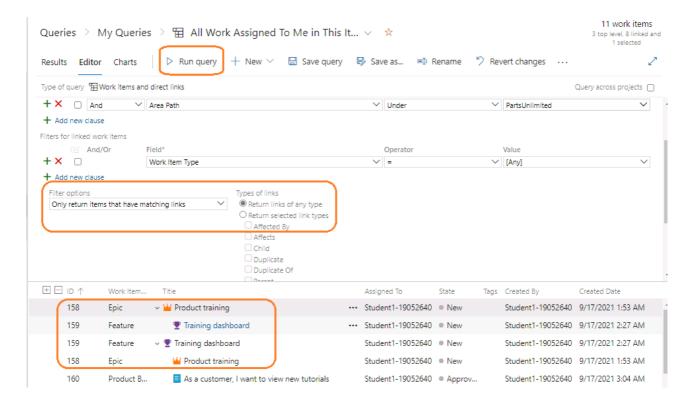
Though you are getting closer to achieving the results you want, the results are displaying in a flat list. You would like to see all the work items based on their relationship with other work items.

For example, for backlog items, you want to view the tasks and test cases associated with them. You need to display the results in a hierarchical form.

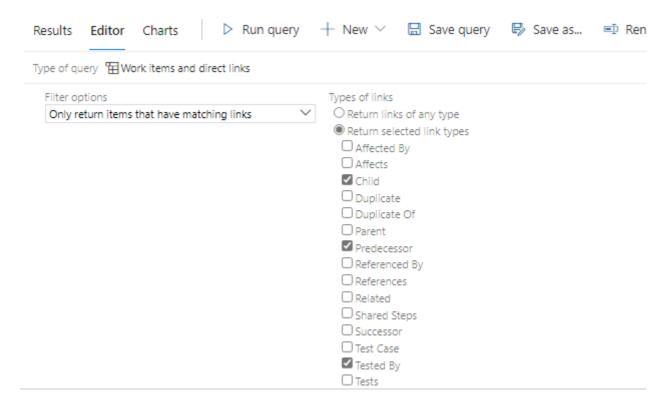
1. At the top of the query editor, in the Type of query field, click the **Flat list of work items** and change it to **Work items and direct links**.



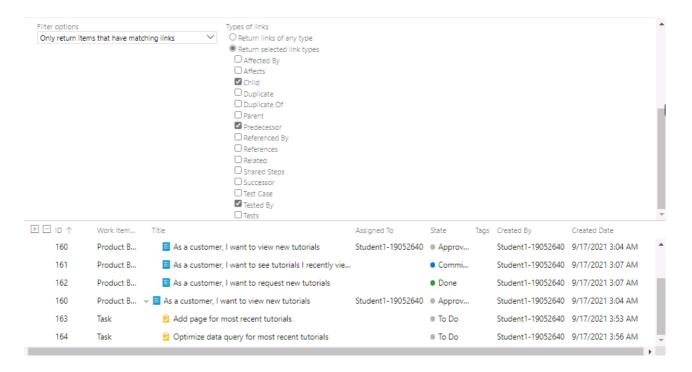
- 2. You will now see **Filters for linked work items** section in the center of the query editor.
- 3. Click **Run query** to see the default behavior.



 Under Type of links, select Return selected link types. In the checkbox list, select Child, Predecessor, and Tested By.



5. To see the results, click **Run query**.



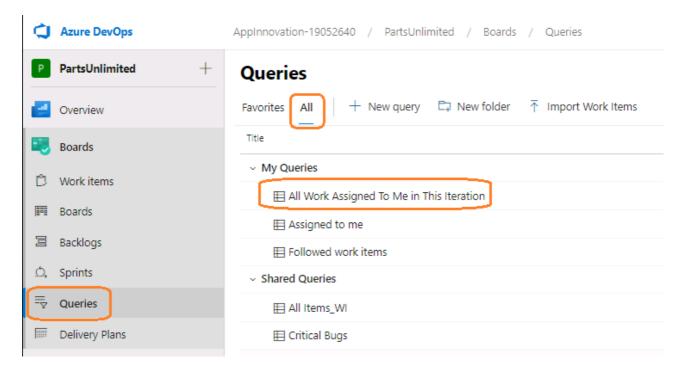
### 6. Click Save query.

## Module 6: Azure Boards - Work Items, Lab 1: Work Items, Exercise 3: Create a Work Item Query

## Task 4: Re-run the Query

You can re-run your newly created queries from Board -> Queries. The query you just created is displayed in the **My Queries** folder.

1. Click on **Queries** under **Boards**. Click on **All** to see all the queries.



2. Click on **All Work Assiged To Me in This Iteration** query to see the query you worked on in the previous tasks.

##Exercise 4: Working with Azure DevOps using Excel

# **Objectives**

After completing this exercise, you will be able to:

- Import work items into Excel.
- Edit work items in Excel.
- Push updates made in Excel back to Azure DevOps.

#### Scenario

In this exercise, you will be importing work items into Excel, modify them, and then publish your changes back to Azure DevOps. Working with Azure DevOps using Excel enables business analysts and project managers to use Azure DevOps effectively without having to use an Integrated Development Environment (IDE) such as Visual Studio. A business analyst or project manager would be more comfortable using Microsoft Excel or Microsoft Project than Visual Studio or the web browser.

# **Prerequisites**

- Office Excel 2010 or later version, including Office 365
- Azure DevOps Office Integration 2019: https://go.microsoft.com/fwlink/?linkid=2076587&clcid=0x409

These prerequisites should be already installed in your lab environment. You can verify it by opening Microsoft Excel and confirming that you see the **Team** tab in the ribbon menu.

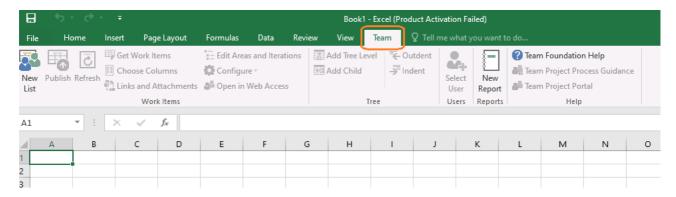
#### **Tasks**

- Task 1: Import Work Items into Excel
- Task 2: Add a new Task in Microsoft Excel
- Task 3: Publishing Changes back to Azure DevOps Services
- Task 4: Verifying Changes in Azure DevOps Services

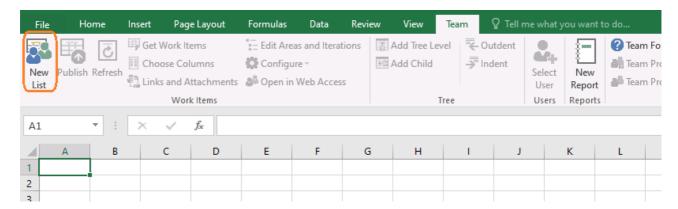
#### Task 1: Import Work Items into Excel

1. Open **Excel** and create a blank workbook, and click the **Team** tab at the top.

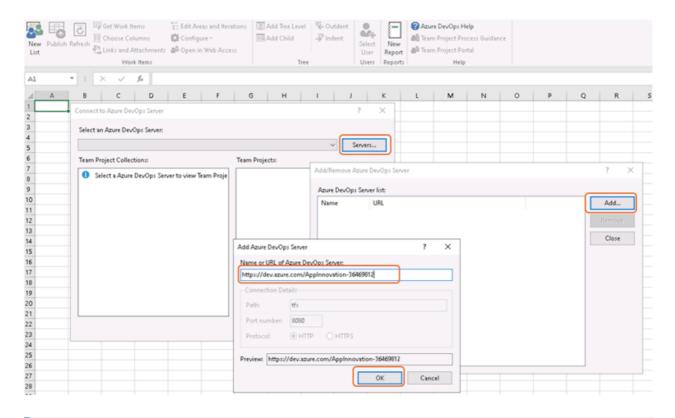
If you don't see the **Team** tab, make sure you have Azure DevOps Office Integration 2019 installed from here: https://go.microsoft.com/fwlink/?linkid=2076587&clcid=0x409



2. Make sure that you have selected the cell **A1**. Click **New List** in the ribbon.

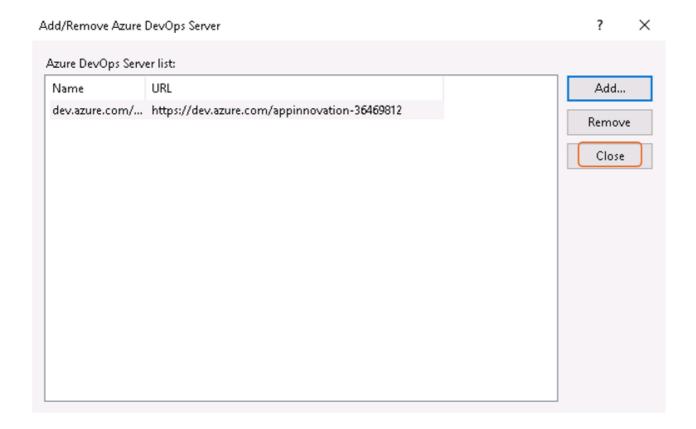


3. In the Connect to Azure DevOps Server dialog box, click Servers. Click Add in the Add/Remove Azure DevOps Server dialog box. In the Add Azure DevOps Server dialog box, type https://dev.azure.com/AppInnovation-[YourName] in the Name or URL of Azure DevOps Server. Click OK.

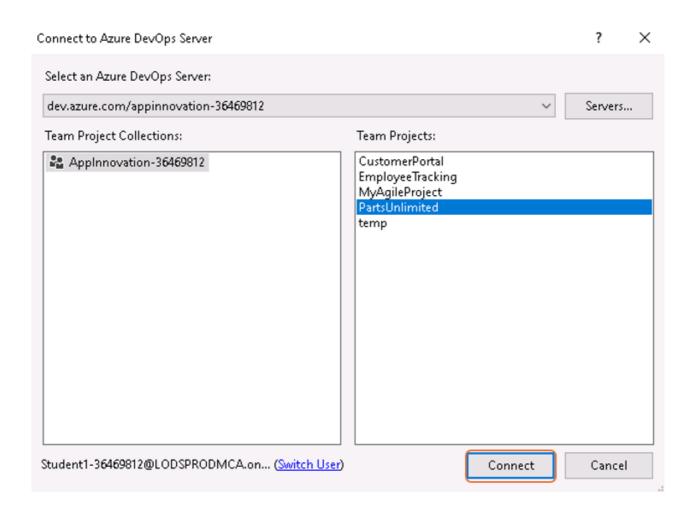


If asked to sign in, enter the credentials.

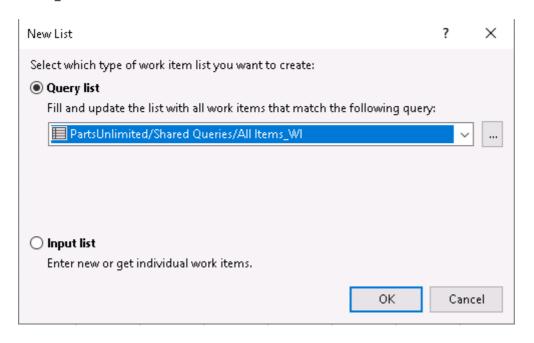
4. Click **Close** to close the Add/Remove Azure DevOps Server dialog box.



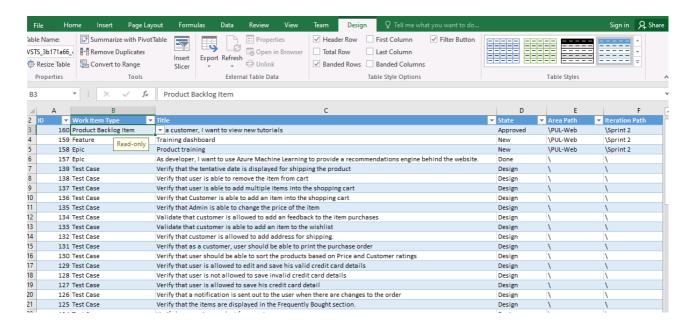
5. Select **AppInnovation-[YourName]** from the *Team Project Collections* and **PartsUnlimited** from *Team Projects*. Click **Connect**.



6. When prompted for the **Query list**, expand **PartsUnlimited > Shared Queries**, and then click **All Items\_WI**. Click **OK**.

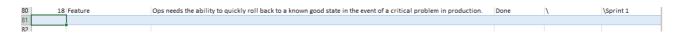


7. All the work items will be displayed in Excel.



#### Task 2: Add a new Task in Microsoft Excel

1. Select the **ID** column and scroll down to the first empty row after the last work item in the list. Press **Ctrl + D** to add another row in the table.



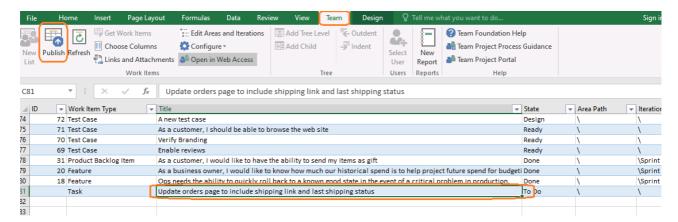
2. You will add another task. In the **Work Item Type** column, select **Task** from the drop-down for work item type. Type **Update orders page to include shipping link and last shipping status** in the **Title** box, and set the **State** to **To Do**.

Leave the **ID** column **empty**, since it will be automatically generated, when we publish our changes back to Azure DevOps.

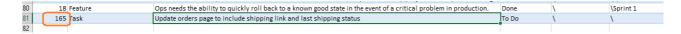
80	18 Feature	Ops needs the ability to quickly roll back to a known good state in the event of a critical problem in production.	Done	\	\Sprint 1
81	Task	Update orders page to include shipping link and last shipping status	To Do	\	\
0.2					

### Task 3: Publishing Changes back to Azure DevOps

1. You will now publish the changes back to Azure DevOps Services. Click on the **Team** ribbon and make sure you have selected the newly entered row. Click **Publish**.

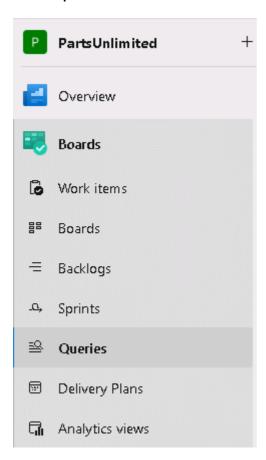


2. On the Microsoft Excel status bar to the bottom-left, you should see a message indicating that **the operation completed successfully**. When the publish operation has completed, your list in Microsoft Excel will be refreshed. Note that the ID for the new task is now populated. Make a note of the ID.

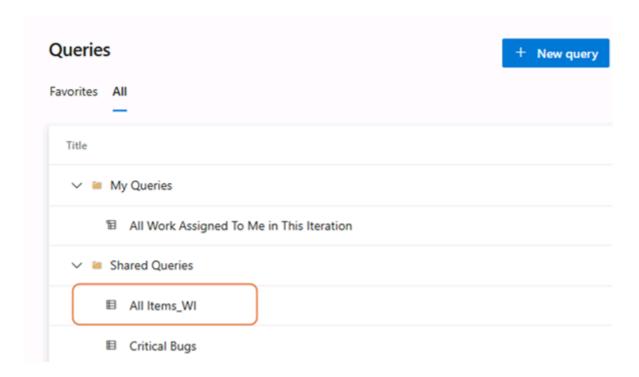


# Task 4: Verifying Changes in Azure DevOps Services

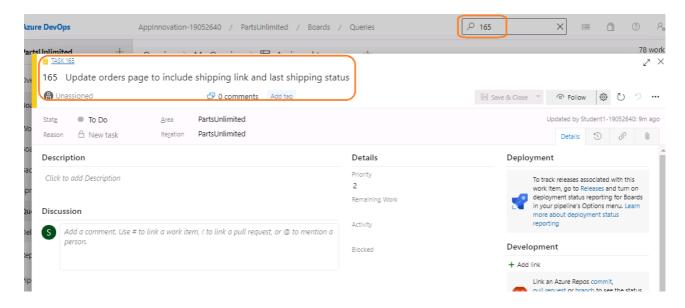
1. Go back to the **PartsUnlimited** project in Azure DevOps Service in the web browser. Navigate to **Boards | Queries**.



2. Switch to All tab and click All Items\_WI under Shared Queries.



3. You will notice that the Task you have just created in Excel is at the bottom of the list. To see the details of the Task, you can click on the Title, or in the **Search** field, type the **ID** that you have noted at the end of Task 3, and hit **Enter**.



4. The task will open. Close the task without any modifications.

#### Module 6: Azure Boards - Work Items, Lab 1: Work Items, Exercise 5: Create a Work Item Template

# Exercise 5: Create a Work Item Template

# **Objectives**

After completing this exercise, you will be able to:

- Create a new work item template.
- Create a PBI by using a template.

## Scenario

In this exercise, you will be creating a work item template. You can use work item templates to reduce the number of fields that you must key in for a new work item. The fields are automatically populated from the values you specify in the template. For example, you can create a task template that will set the area and iteration path whenever you use it to create a new task.

### **Prerequisites**

None

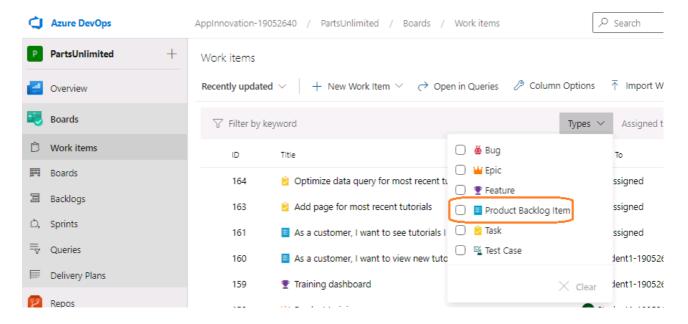
#### **Tasks**

- Task 1: Create a new Work Item Template
- Task 2: Create a PBI using the Template
- Task 3: Add a Template Link to the Database

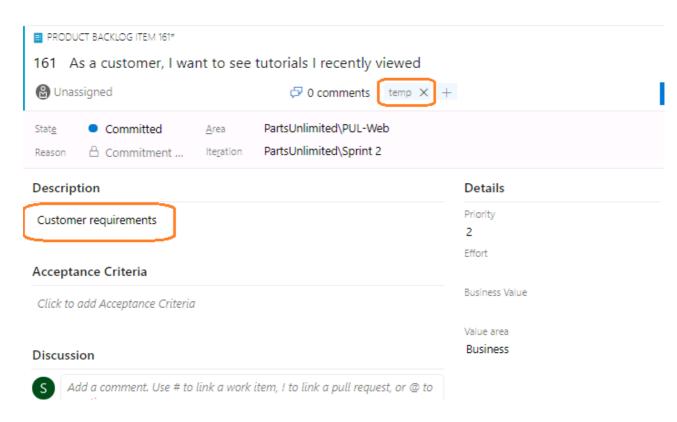
#### Module 6: Azure Boards - Work Items, Lab 1: Work Items, Exercise 5: Create a Work Item Template

# Task 1: Create a new Work Item Template

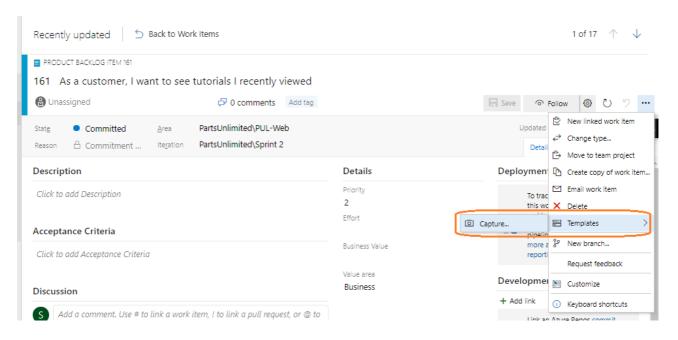
- 1. In the browser with Azure DevOps Services open with **PartsUnlimited** project, select **Boards | Work Items**.
- 2. Click on **Types** in the filter area and select **Product Backlog Item**.



- 3. Open the **Product Backlog Item** with the title *As a customer, I want to see tutorials I recently viewed.* 
  - If the work item does not exist, choose a different Product Backlog Item from the list.
- 4. Add the text in the description: Customer requirements and add a tag temp
  - Assume that **Customer requirements** is the description that is always needed in all the PBIs.

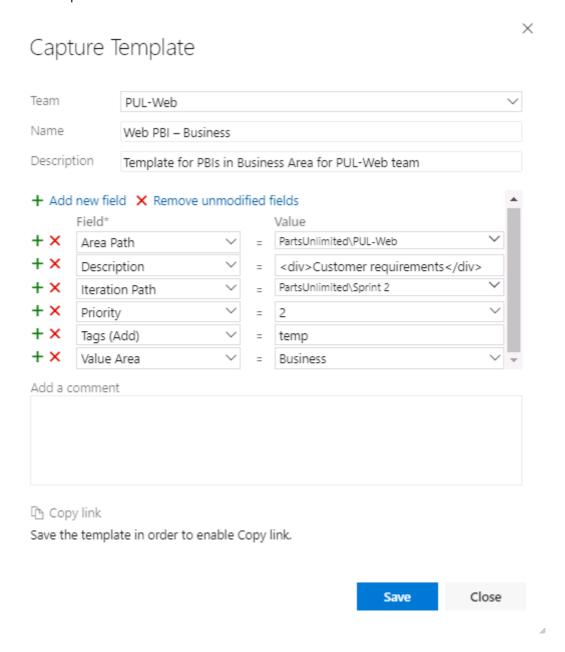


5. Click the Actions (...) menu and click Templates - > Capture.

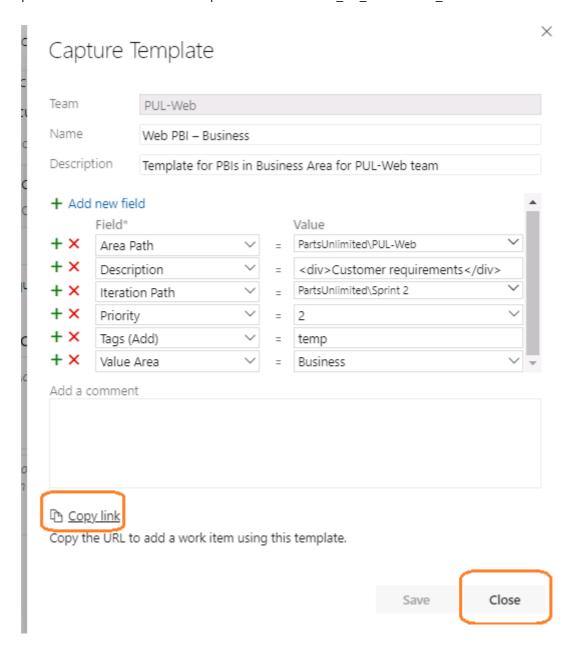


- 6. In the Capture Template dialog box, make sure you have following details:
  - Team: **PUL-Web**
  - Name: Web PBI Business
  - o Description: Template for PBIs in Business Area for PUL-Web team
  - Area Path: PartsUnlimited\PUL-Web
  - Description: < div>Customer requirements < /div>
  - Remove State, Reason and Title
  - o Tags (Add): temp
  - Click Save
  - o Do not close the dialog box yet.

The Template should look like this now:



7. Now, **Copy link** should be enabled. Click this link and copy it in Notepad/Notepad++. We will use it in the next task.

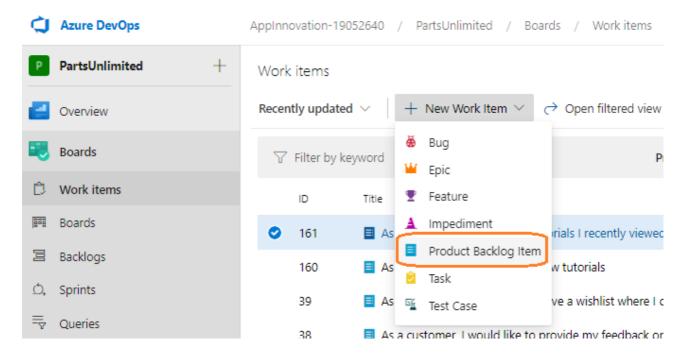


8. **Close** the Capture Template dialog box.

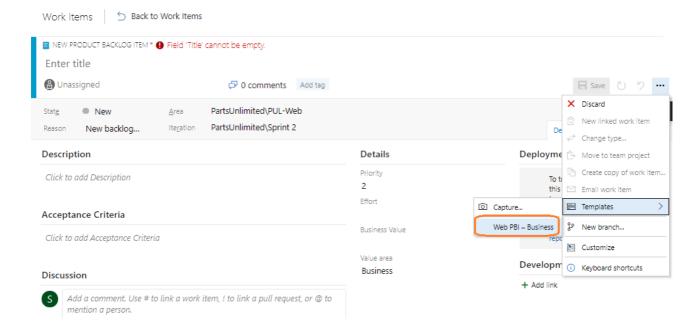
#### Module 6: Azure Boards - Work Items, Lab 1: Work Items, Exercise 5: Create a Work Item Template

# Task 2: Create a PBI using the Template

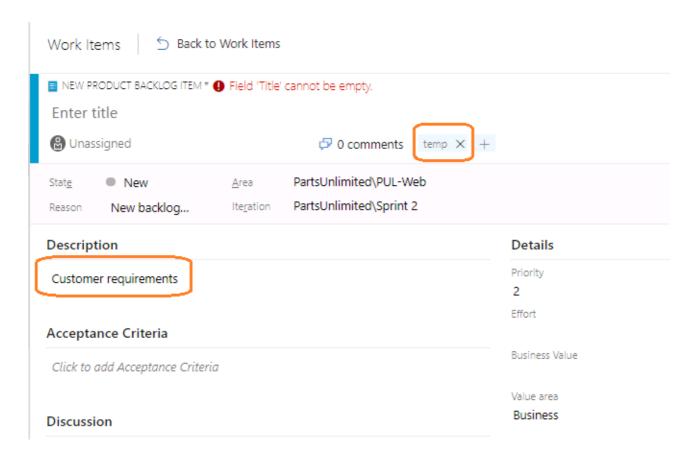
- 1. Select **Boards | Work Items**. Discard the changes for the previous Work Item.
- 2. Click on New Work Item, select Product Backlog Item.



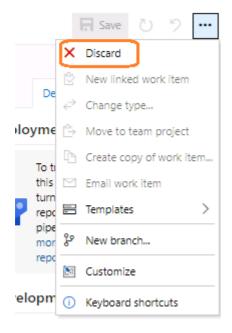
3. Click the Action (...)\* menu and click Templates - > Web PBI - Business



4. Note that the **Description** field has **Customer requirements** is automatically added. So is the **temp** tag.



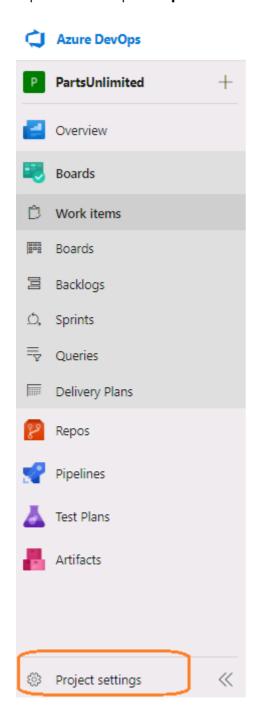
5. Click the **Actions (...)** menu and click **Discard**. Confirm the discard.



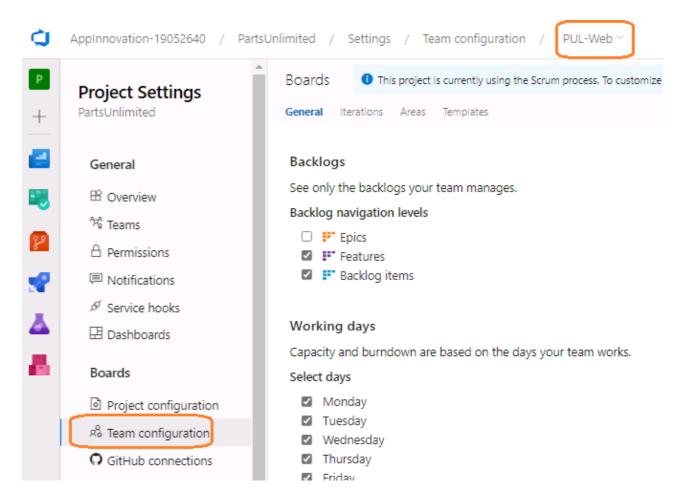
### Module 6: Azure Boards - Work Items, Lab 1: Work Items, Exercise 5: Create a Work Item Template

# Task 3: Add a Template Link to the Dashboard

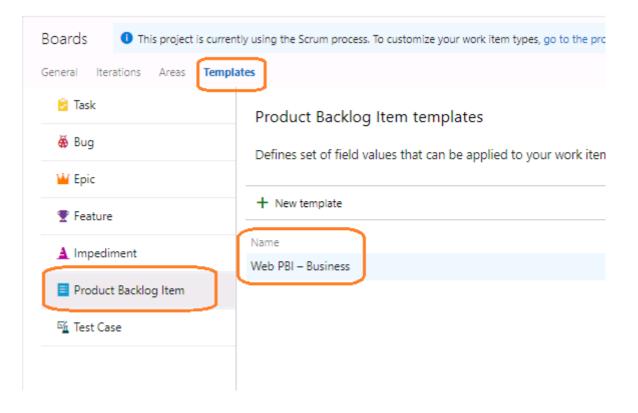
1. If you have the template URL you have copied or pasted in the notepad, make sure you copy it in the clipboard and skip to **Step 5**. Otherwise, navigate to **Project Settings**.



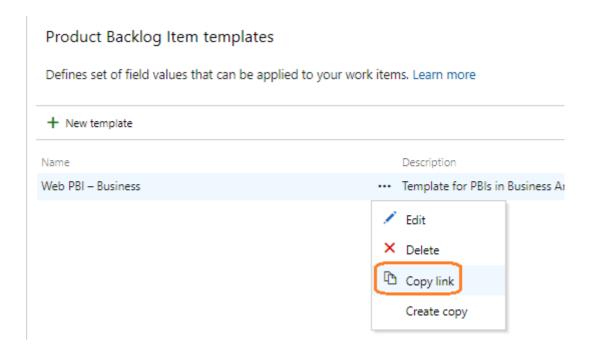
2. Under Boards and choose Team Configuration for PUL-Web team.



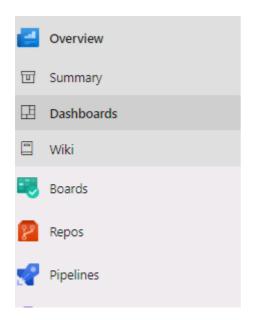
3. Click the **Templates** tab and click **Product Backlog Item** to list the Product Backlog Item templates.



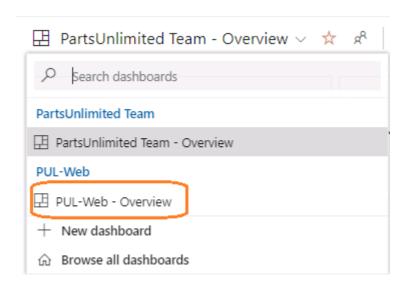
4. Click the Actions (...) menu of Web PBI - Business and click Copy link.



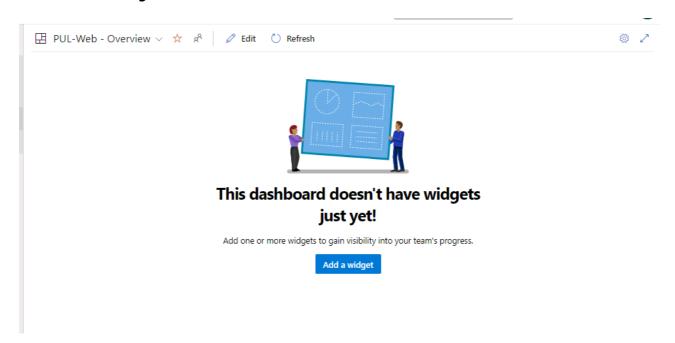
### 5. Select **Overview | Dashboards**.



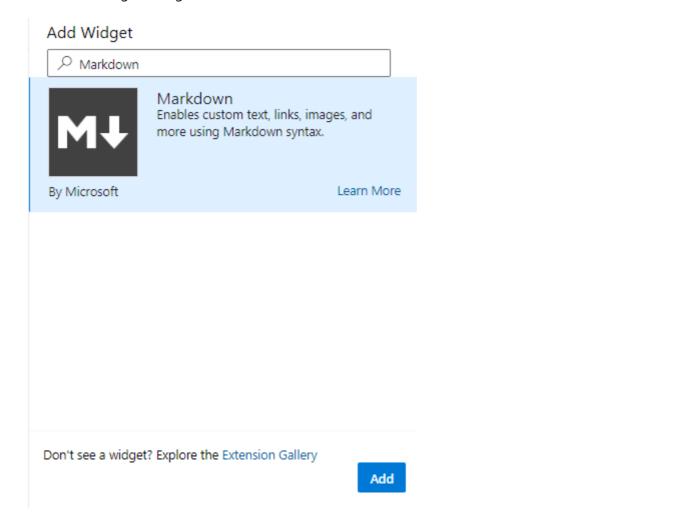
### 6. Select the **PUL-Web - Overview** dashboard.



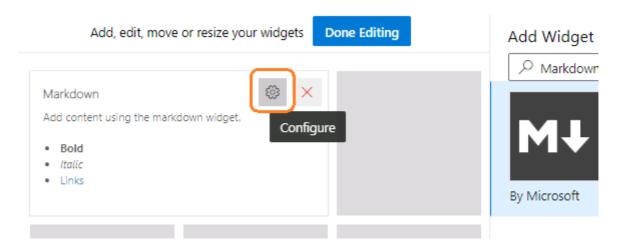
7. Click on **Add a widget** button.



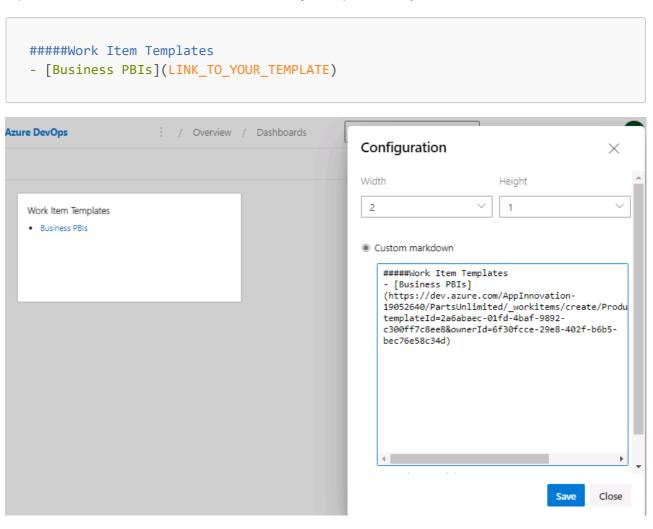
8. In the Add Widget dialog box, search for **Markdown** and click **Add**.



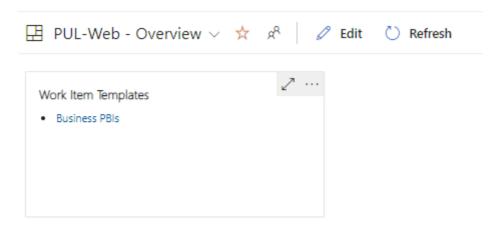
9. When the widget appears on the dashboard, click Configure.



10. In the Configuration screen, in the Custom Markdown field, type the following text. Do not forget to replace *LINK\_TO\_YOUR\_TEMPLATE* with the link you copied in **Step #4**. Click **Save**.



- 11. Click **Done Editing** button to exit dashboard editing.
- 12. Now you have the **Work Item Templates** widget on your Overview dashboard, using which you can create PBIs.



13. Click the **Business PBIs** link in the widget to open the Product Backlog Item work item form with populated values. You can discard this PBI.