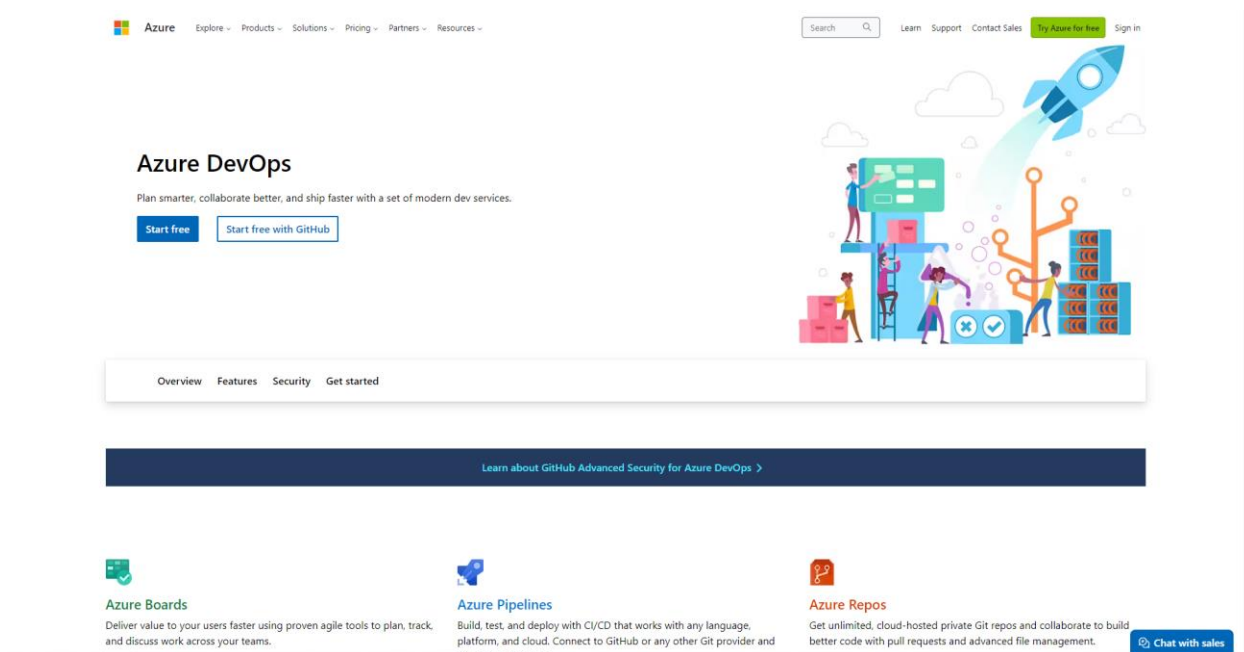


# Azure DevOps – Skripta

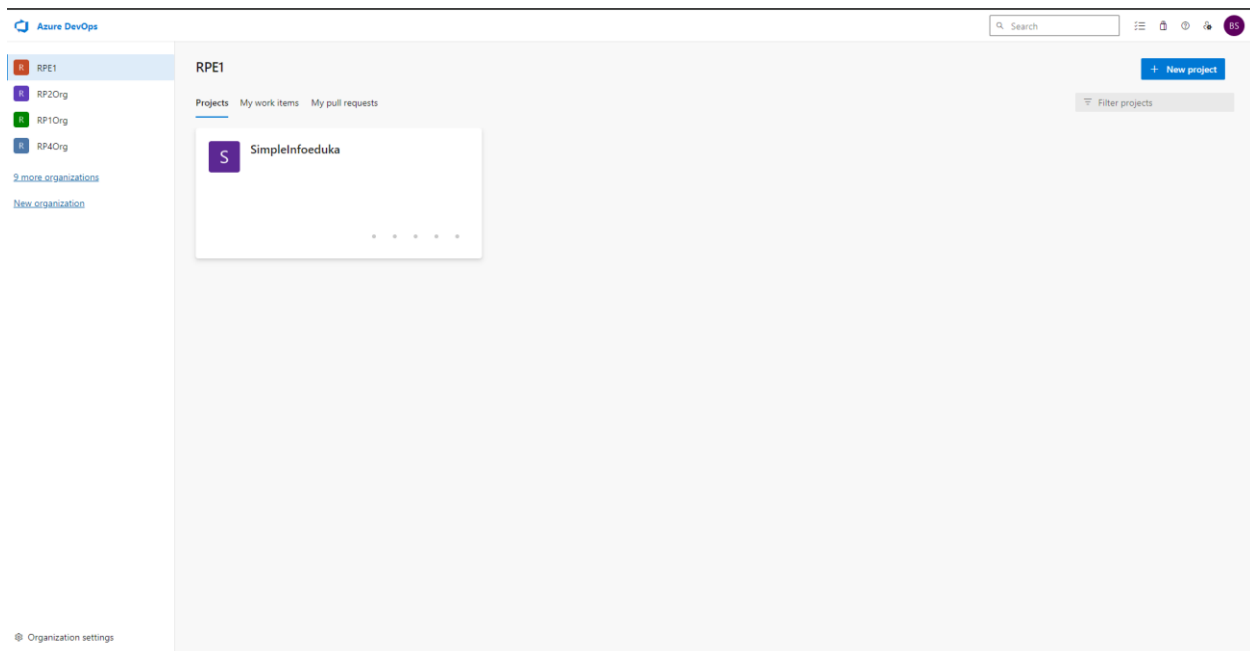
U ovom dokumentu bit će opisani koraci potrebni za postavljanje organizacije, projekta i ploče sa zadacima koji su potrebni za izradu projektnih isporuka ishoda učenja 3 i ishoda učenja 5

## Postavke organizacije i projekta

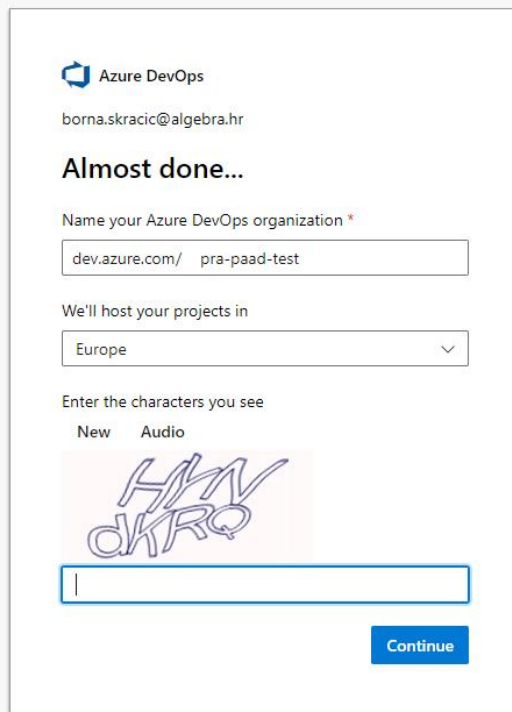
Kako bismo počeli rad s AzureDevOps-om, posjećujemo poveznicu <https://azure.microsoft.com/en-us/products/devops> i odabiremo **Start Free** opciju. Potom će se prikazati standardi Microsoft ekran za prijavu.



Kada ste se prijavili trebali biste vidjeti sljedeći prikaz:



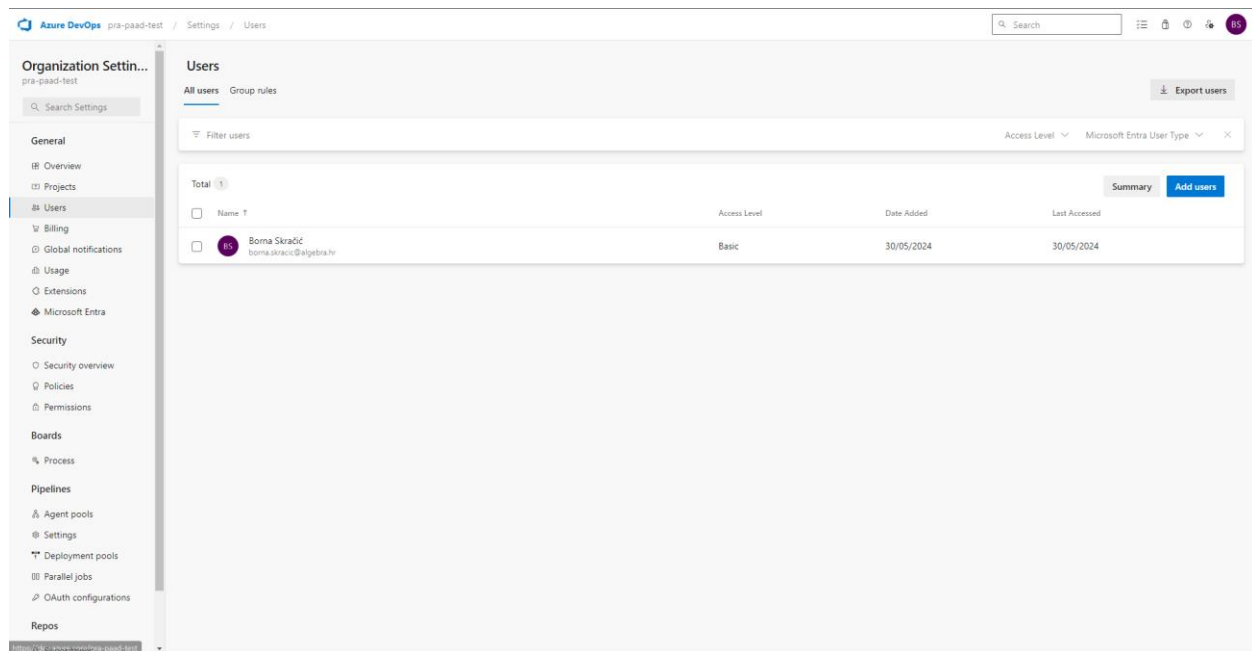
Na ovom ekranu trebali biste vidjeti listu organizacija te kolikom na pojedinu organizaciju, bit će vam prikazana lista projekata. Za početak, napravit ćemo novu organizaciju klikom na opciju **New organization**.



The screenshot shows the 'Almost done...' step of the Azure DevOps organization creation process. At the top, the Azure DevOps logo and the user's email 'borna.skracic@algebra.hr' are displayed. The main heading is 'Almost done...'. Below this, there are three input fields: 1. 'Name your Azure DevOps organization \*' with the text 'dev.azure.com/ pra-paad-test'. 2. 'We'll host your projects in' with a dropdown menu showing 'Europe'. 3. A CAPTCHA section titled 'Enter the characters you see' with 'New' and 'Audio' options. The CAPTCHA image shows the characters 'HMV' and 'dkRQ' in a stylized font. Below the image is an empty text input field for the user to type the characters. A blue 'Continue' button is located at the bottom right of the form.

Ispunite potrebne podatke u formi, prvenstveno ime organizacije i regiju. Na poslijetku, ispunite captchu i kliknite **Continue**.

Potom biste trebali dodati članove vašeg tima u novostvorenu organizaciju. Kliknite **Organization settings** i u lijevoj navigacijskoj traci stisnite **Users**.



Klikom na **Add users** trebao bi se otvoriti modal u kojem možete pretražiti vaše članove tema putem Algebra Microsoftovog računa. Pronađite korisnike i dodijelite **Stakeholder** kao **Access Level**, kako je prikazano na slici:

## Add new users



Required fields are marked with an asterisk

Users or Service Principals \*

 Derin Taranci | Student  Users or Service Principals

Access level

Stakeholder



Add to projects

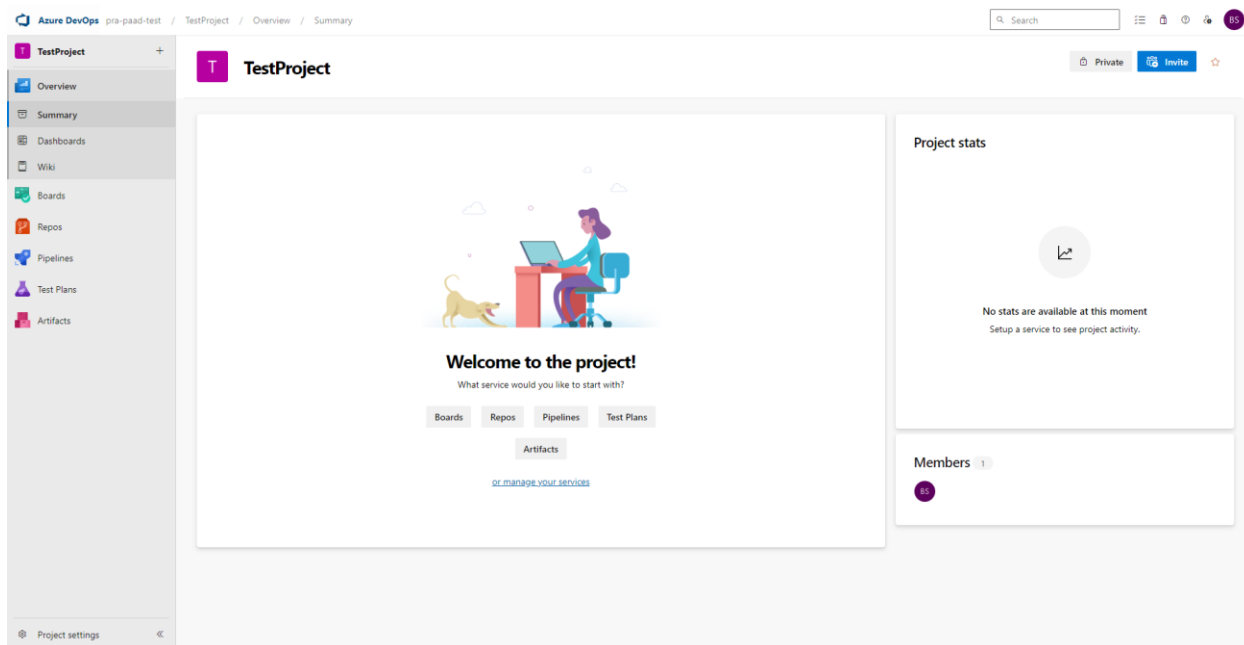
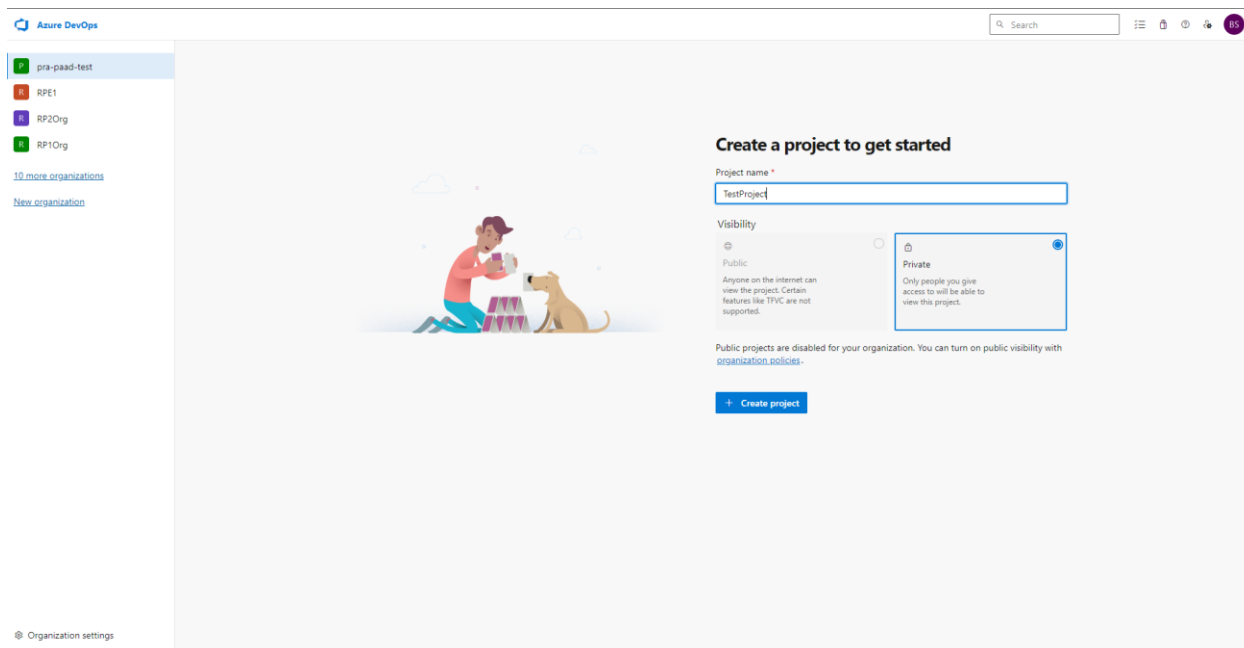


☒ Send email invites (to Users only)

Cancel

Add

Nadalje, stvaramo naš prvi projekt. Ispunite formu za stvaranje novog projekta i stisnite **Create project**. Taj projekt predstavlja će Vaš PRA projekt i listu radnih zadataka.



Nažalost, novostvoreni projekt koristiti će proces imena „Default“ koji ne dozvoljava stvaranje radnih zadataka koji je nužan za Agile tijekom rada. Kako bismo doskočili tom problemu, potrebno je promijeniti proces u „Agile“. Klikom na tipku **Organization settings** otvaraju postavke organizacije.

Azure DevOps pra-paad-test / Settings / Overview

Organization Settings pra-paad-test

Search Settings

General

- Overview
- Projects
- Users
- Billing
- Global notifications
- Usage
- Extensions
- Microsoft Entra

Security

- Security overview
- Policies
- Permissions

Boards

- Process

Pipelines

- Agent pools
- Settings
- Deployment pools
- Parallel jobs
- OAuth configurations

Repos

- Repositories

### Overview

Name: pra-paad-test

Use the new URL: <https://dev.azure.com/pru-paad-test/> [Learn more about URLs](#)

Privacy URL: [Learn more about the Privacy URL](#)

Description: Add organization description

Time zone: UTC

Geography: Europe [Learn more about the Geographies](#)

Region: North Europe

Save Changes made will affect all projects and members of the organization

### Organization Usage Limit

Type	Usage
Projects	0/1000
WorkItemTags	0/150000

Organization owner

Zatim kliknite **Boards > Process**.

Azure DevOps pra-paad-test / Settings / Process

Organization Settings pra-paad-test

Search Settings

General

- Overview
- Projects
- Users
- Billing
- Global notifications
- Usage
- Extensions
- Microsoft Entra

Security

- Security overview
- Policies
- Permissions

Boards

- Process

Pipelines

- Agent pools
- Settings
- Deployment pools
- Parallel jobs
- OAuth configurations

Repos

- Repositories

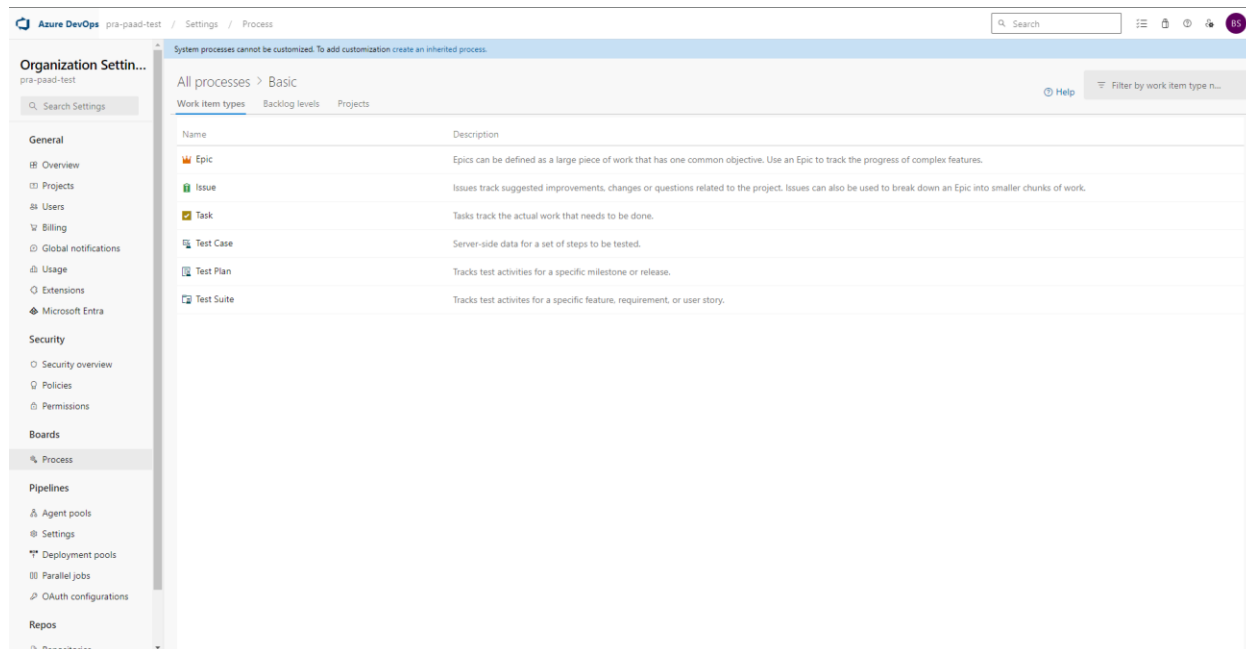
### All processes

Processes Fields

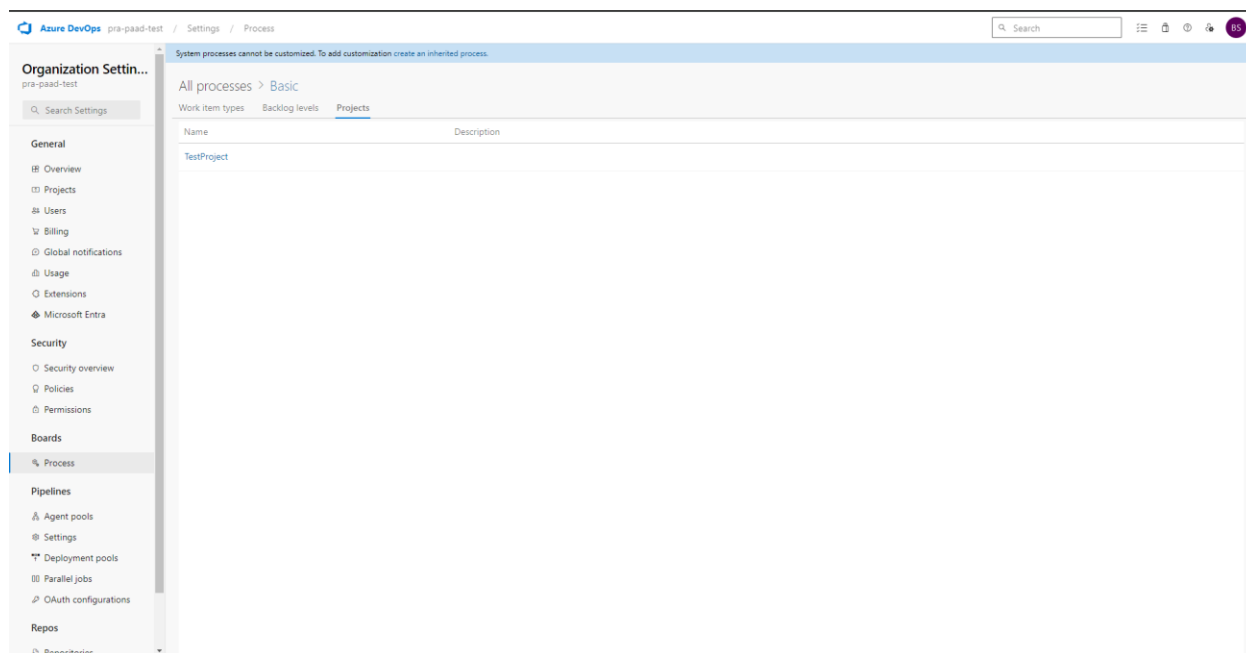
Help Filter by process name

Name	Description	Team projects
Basic (default)	This template is flexible for any process and great for teams getting started with Azure DevOps.	1
Agile	This template is flexible and will work great for most teams using Agile planning methods, including those practicing Scrum.	0
Scrum	This template is for teams who follow the Scrum framework.	0
CMMI	This template is for more formal projects requiring a framework for process improvement and an auditable record of decisions.	0

Sada kliknite pod **Processes > Basic (default)**.

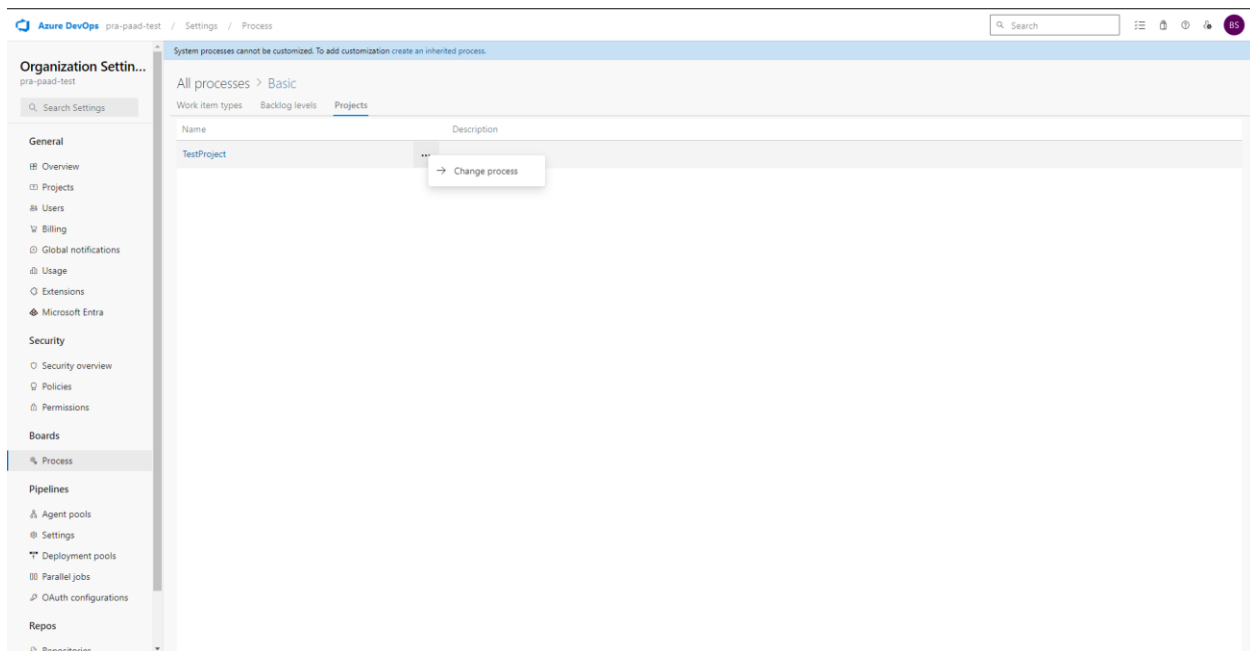


## Odaberite **Projects**.

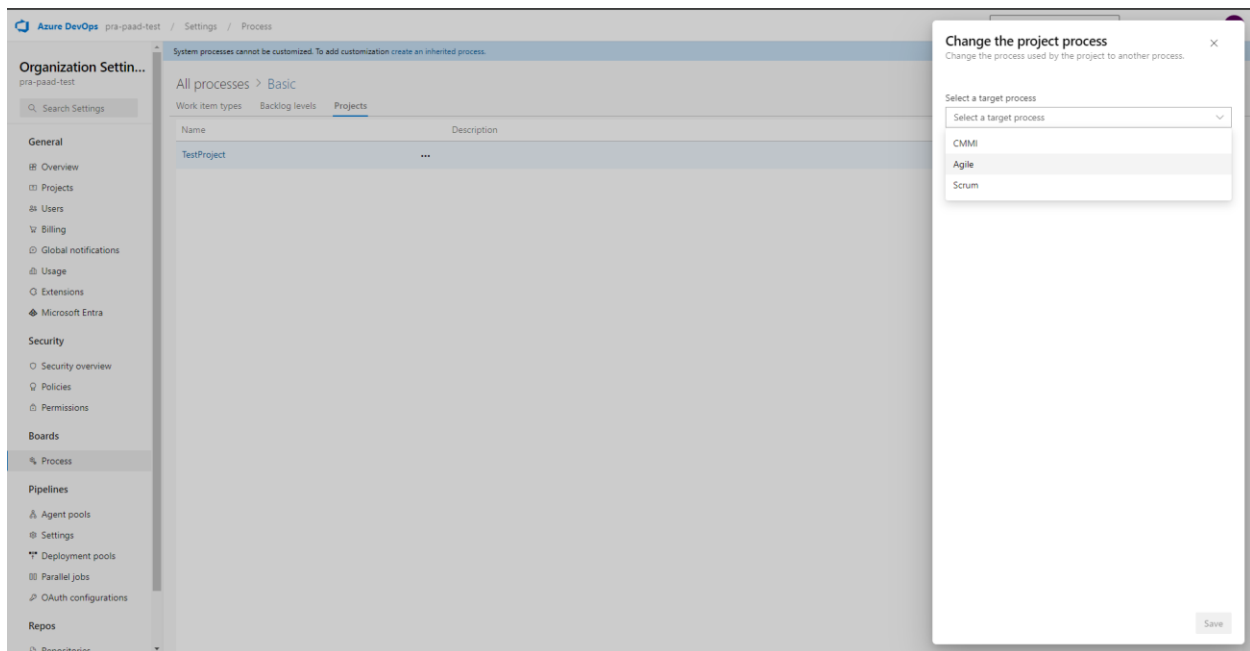


Trebali biste pod **Projects** viditi ime vašeg projekta. Prelaskom pokazivača iznad projekta trebala bi prikazati tri vertikalne točke koje predstavljaju dodatne opcije.





Klik na spomenute točke otvara podizbornik. Odaberite **Change process** opciju.



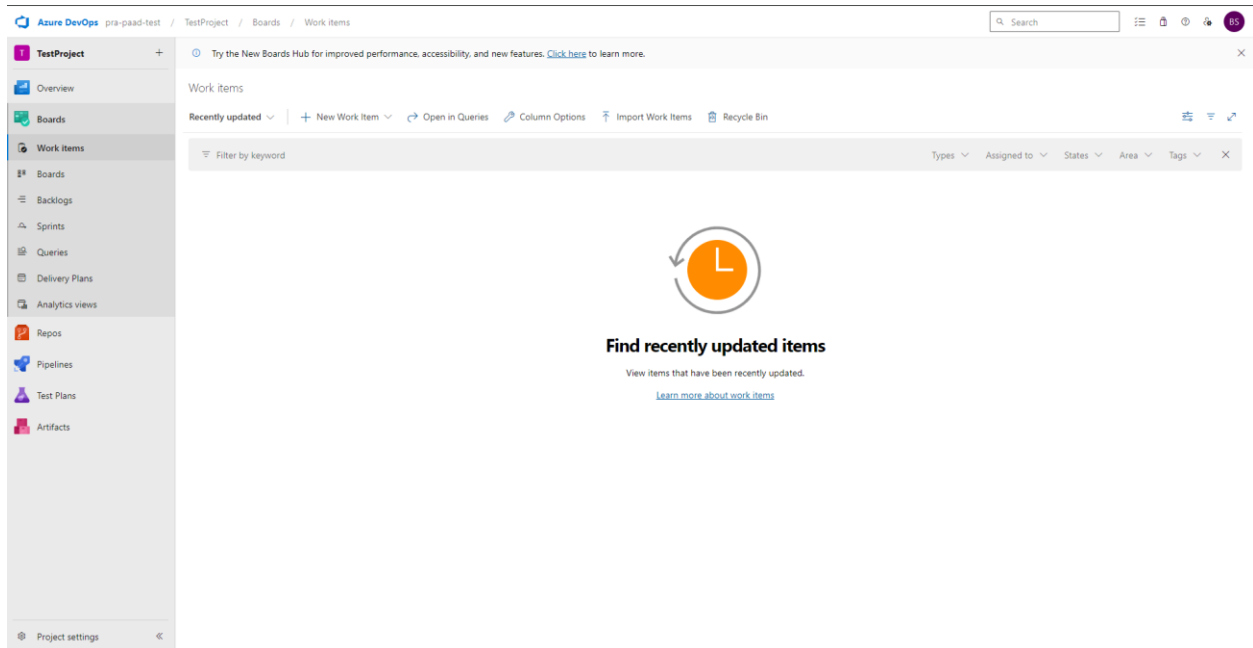
Na desnoj strani pojavit će se modal u kojem možete izabrati tip procesa za vaš projekt. Odaberite **Agile** i kliknite **Save**. Ignorirajte potencijalna upozorenja.

Vratite se na vaš prikaz vašeg projekta.

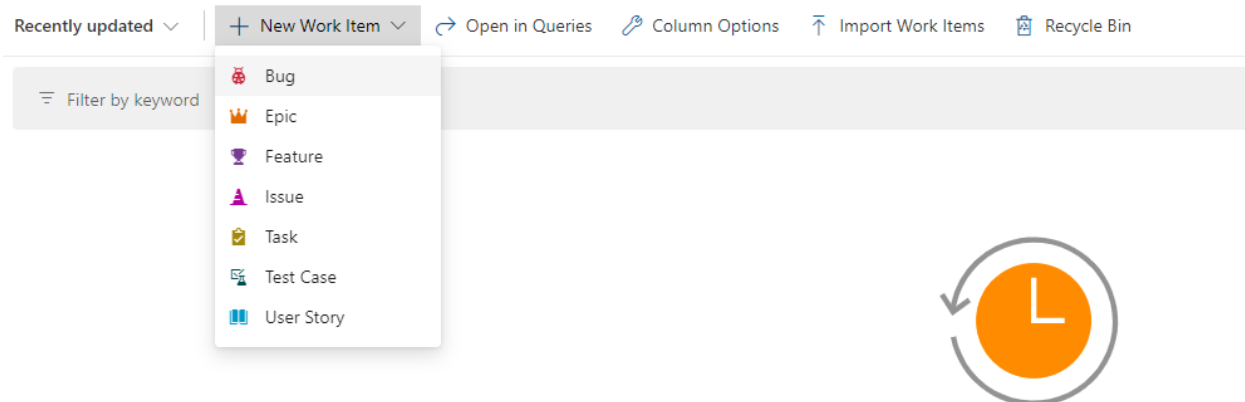
## Stvaranje radnih zadataka

Na stranici vašeg projekta, u lijevoj navigacijskoj traci, trebali biste vidjeti opciju **Boards**. Kliknite na **Work items** opciju.

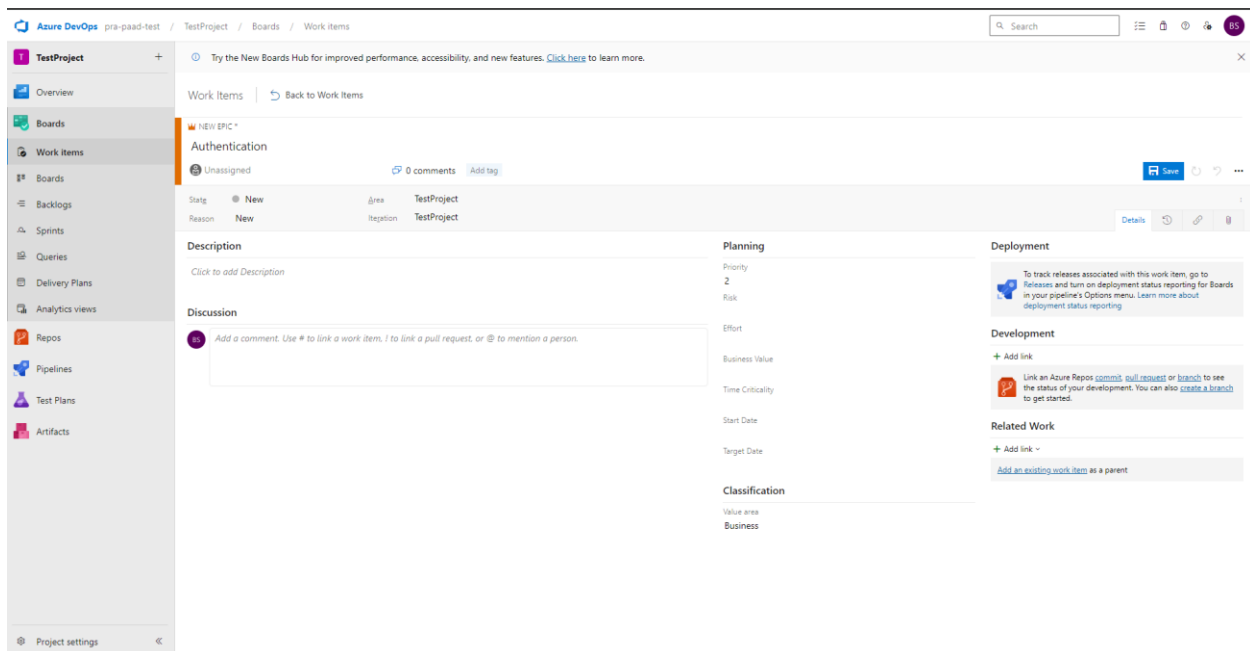
Spremni ste za stvaranje vaših radnih zadataka! Kliknite na **New Work Item** i odaberite odgovarajući tip radnog zadatka (kao što je objašnjeno na predavanjima i vježbama): *epic*, *feature*, *user story*, *task* ili *test case*. Zapamtite da biste trebali podijeliti vaš projekt u više *epic-a* koji sadrže više *feature-a*. *Feature* sadrži više *user story-a* koji opisuju granuliziranu funkcionalnost kroz aspekt pojedinog korisnika (role) koristeći prirodni jezik (prisjetite se formata: „Kao <korisnik> želim <akcija>“). Svaki *user story* trebao bi sadržavati *task-ove* koji opisuju kako implementirati danu funkcionalnost. Za Ishod učenja 5, potrebno je također definirati barem jedan *test case* za svaki *user story*.



Work items




Za primjer napravimo *epic* naziva “Authentication” i povežimo ga sa *feature-om* koji ćemo stvoriti.



Ispunite ime *epic*-a i kliknite **Save**.

Potom odaberite **Add link > New item**.

## 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 ▾

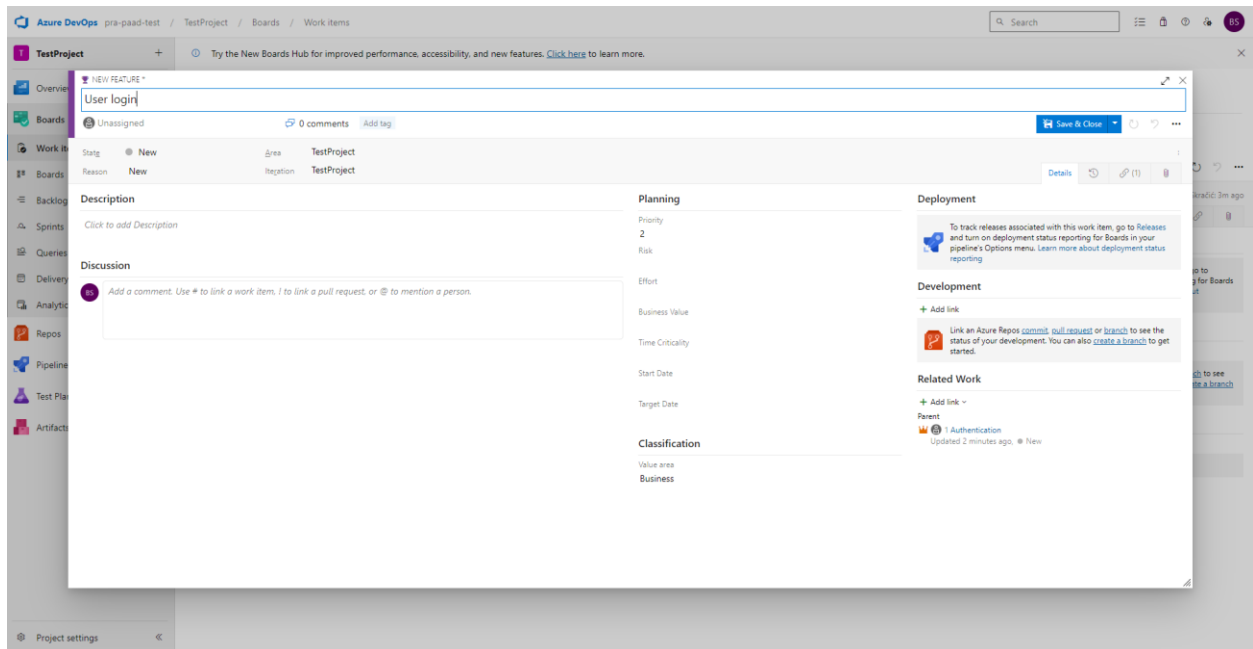
 Existing item [Add an existing work item as a parent](#)

 New item

Prikazat će se nova forma na kojoj trebate naznačiti ime zadatka i odabrati odgovarajući tip radnog zadatka (u ovom slučaju *feature*). **Link type** bi trebao biti **Child** budući da jedan *epic* sadrži više *feature-a*. Isto vrijedi za odnos *feature* – *user story*, *user story* – *task* i *user story* – *test case*. Na poslijetku, kliknite **Ok**.

The screenshot shows a 'Add link' dialog box with a close button (X) in the top right corner. The text 'You are adding a link from:' is followed by a location pin icon, a crown icon, a person icon, and the text '1 Authentication'. Below this, it says 'Updated a minute ago' with a radio button next to 'New'. The 'Link type' dropdown menu is set to 'Child'. The 'Work item type' dropdown menu is set to 'Feature'. The 'Title' field contains the text 'User login'. Below the title field, there is a diagram showing a location pin icon in a box, with an arrow pointing down to a target icon in a box. The 'Comment' field is empty. At the bottom right, there are two buttons: 'OK' (blue) and 'Cancel' (grey).

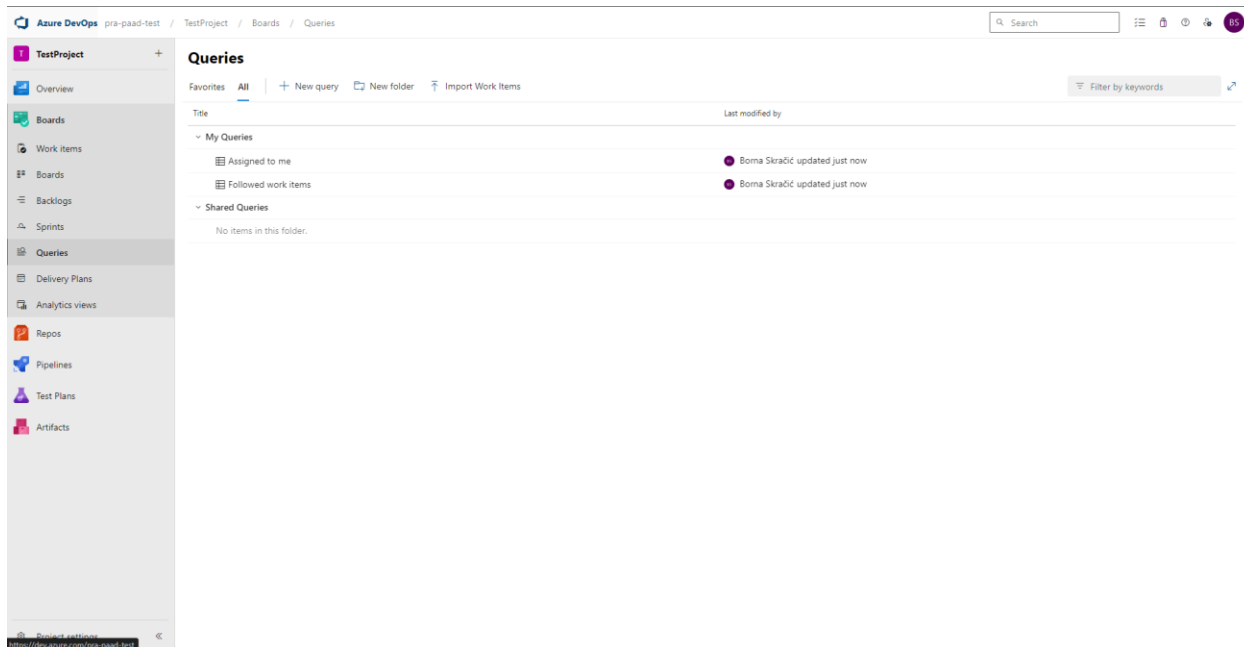
Pokazat će vam se ekran za stvaranje novog radnog zadatka, provjerite odgovaraju li informacije i kliknite **Save & Close**.



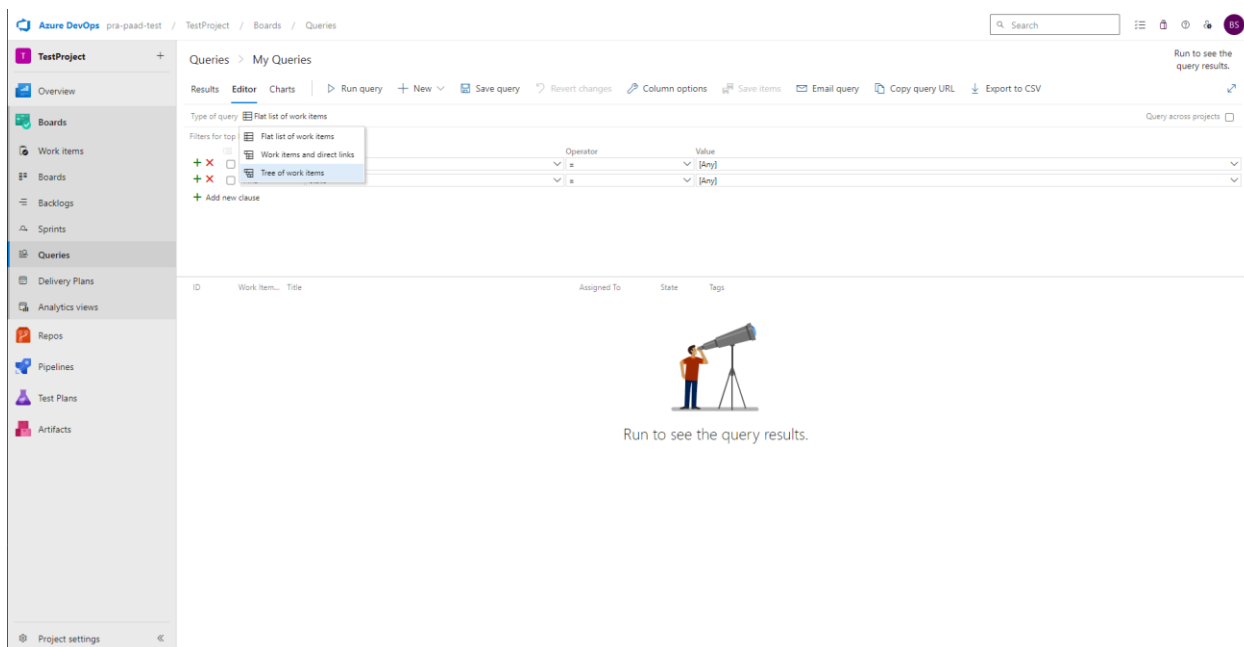
Imajte na umu da ćete morati spremiti promjene svaki put kada napravite nekakvu izmjenu na radnom zadatku.

## Izvoz ploče radnih zadataka

Kako bismo izvezli (eng. *export*) ploču radnih zadataka u CSV formatu (kako je navedeno u zahtjevima projektnog zadatka), napraviti ćemo novi upit (eng. *query*). U lijevoj navigacijskoj traci kliknite **Boards > Queries**.



Potom klinkite na **New query**. Pod **Type of query**, odaberite **Tree of work items**.



Pod **Type of tree**, odaberite **Parent/Child**.

## Queries > My Queries

Results Editor Charts | ▶ Run query + New ▾ 📄 Save query ↶ Revert change

Type of query 📊 Tree of work items

Filters for top level work items

	And/Or	Field*	Operator
+ X <input type="checkbox"/>		Work Item Type	=
+ X <input type="checkbox"/>	And ▾	State	=
+ Add new clause			

Filters for linked work items

	And/Or	Field*	Operator
+ X <input type="checkbox"/>		Work Item Type	=
+ Add new clause			

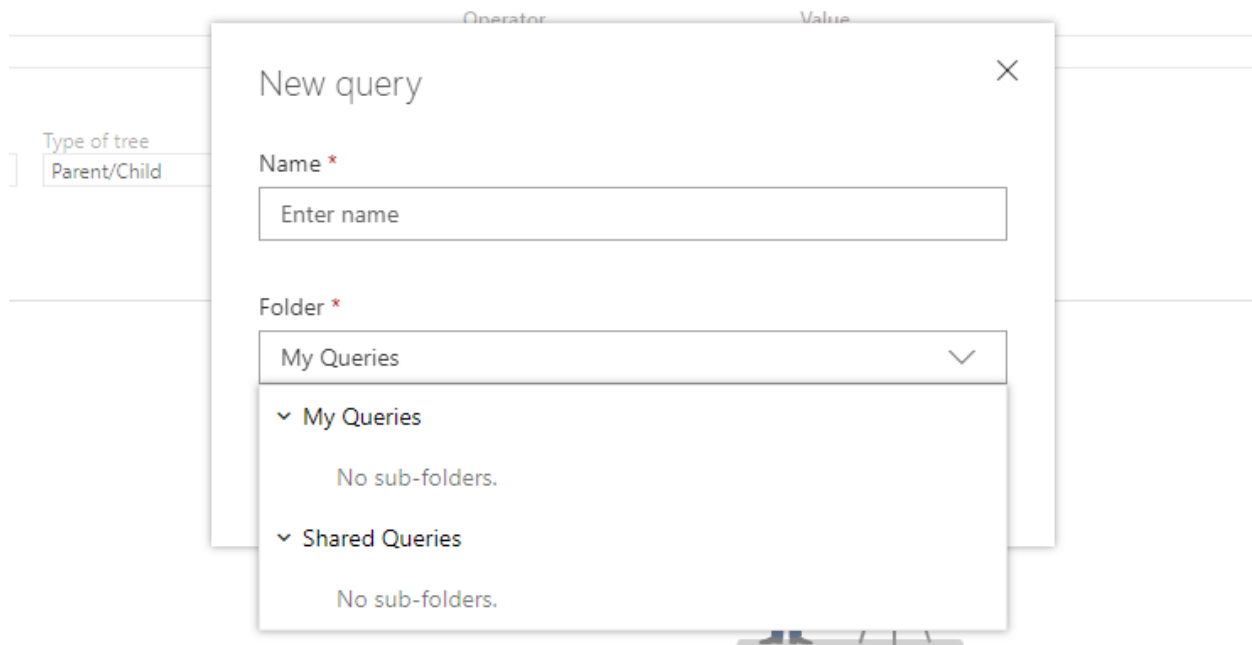
Filter options

Match top-level work items first ▾

Type of tree

Parent/Child ▾  
Duplicate Of/Duplicate  
Parent/Child

Spremite upit pod **Shared queries** tako da i ostali članovi tima mogu koristiti taj upit.



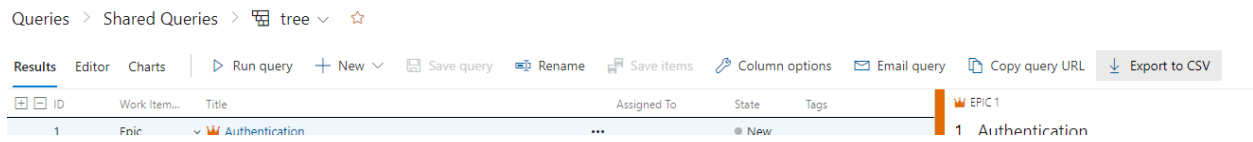
Run to see the query results.

Na poslijetku kliknite **Run** kako biste izvršili upit. Trebali biste vidjeti lijepi hijerarhijski prikaz radnih zadataka.

ID	Work Item...	Title	Assigned To	State	Tags
1	Epic	Authentication		New	
2	Feature	User login		New	
3	User Story	As a student, I want to login with my username and password		New	
5	Task	[BE] Implement /login endpoint		New	
6	Task	[FE] Make login form		New	
7	Test Case	Student can successfully login with valid credentials	Borna Škarić	Design	
4	User Story	As a teacher, I want to login with my username and password		New	
8	User Story	As a student, I want to login with my username and password		New	



U alatnoj traci potražite **Export to CSV** kako biste izvezli radne zadatke u datoteku CSV formata.



To je to!

Ukoliko imate pitanja vezanih za projektni zadatak ili AzureDevops, slobodno se obratite na [borna.skracic@algebra.hr](mailto:borna.skracic@algebra.hr).