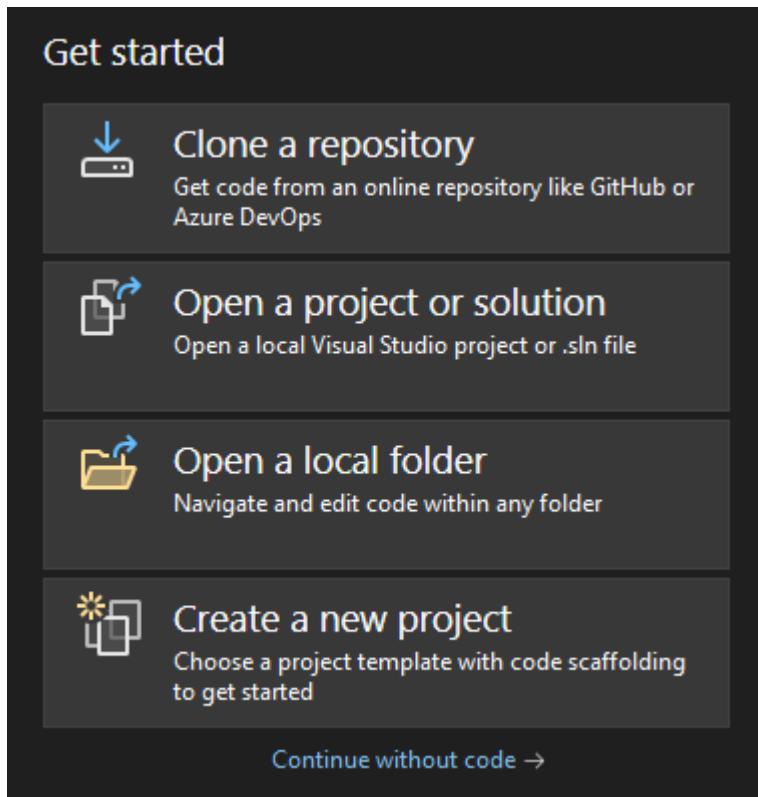


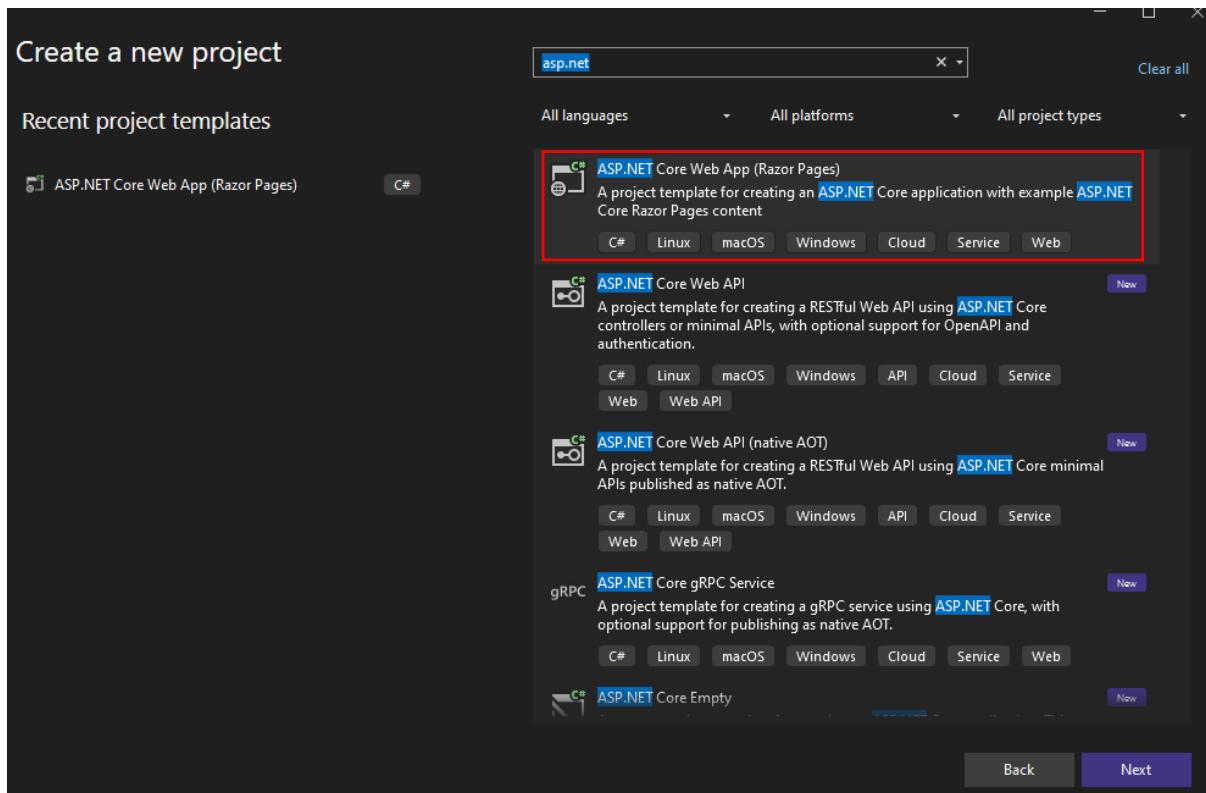


Publishing Code from Visual Studio

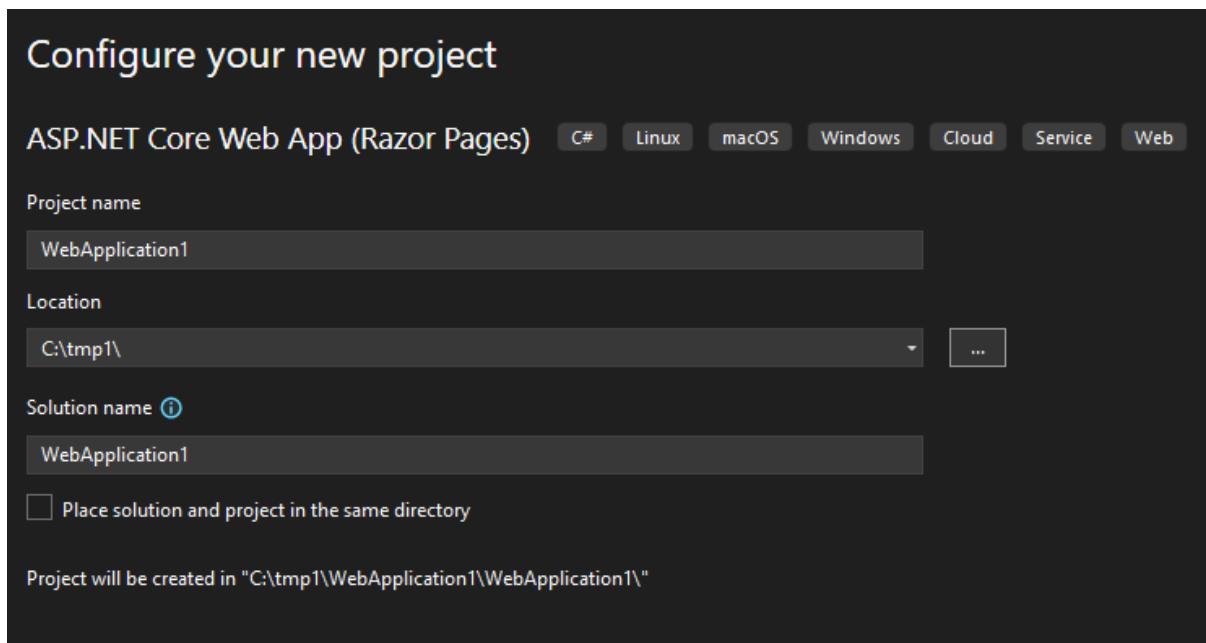
1. In this lab we will use Visual Studio 2022 to publish our project onto GitHub.
2. But first we need to create a simple project in Visual Studio. Open it from the Get Started pane and choose to create a new project.



3. In the search menu write asp.net and choose the first Web App.



4. Then just configure the project name and location.



5. Choose dot net 8 for the Long term support and create your web app.

Additional information

ASP.NET Core Web App (Razor Pages)

C#

Linux

macOS

Windows

Cloud

Service

Web

Framework i

.NET 8.0 (Long Term Support)

Authentication type i

None

Configure for HTTPS i

Enable container support i

Container OS i

Linux

Container build type i

Dockerfile

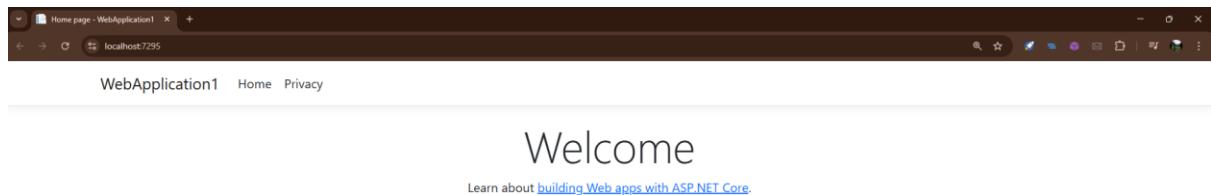
Do not use top-level statements i

Enlist in .NET Aspire orchestration i

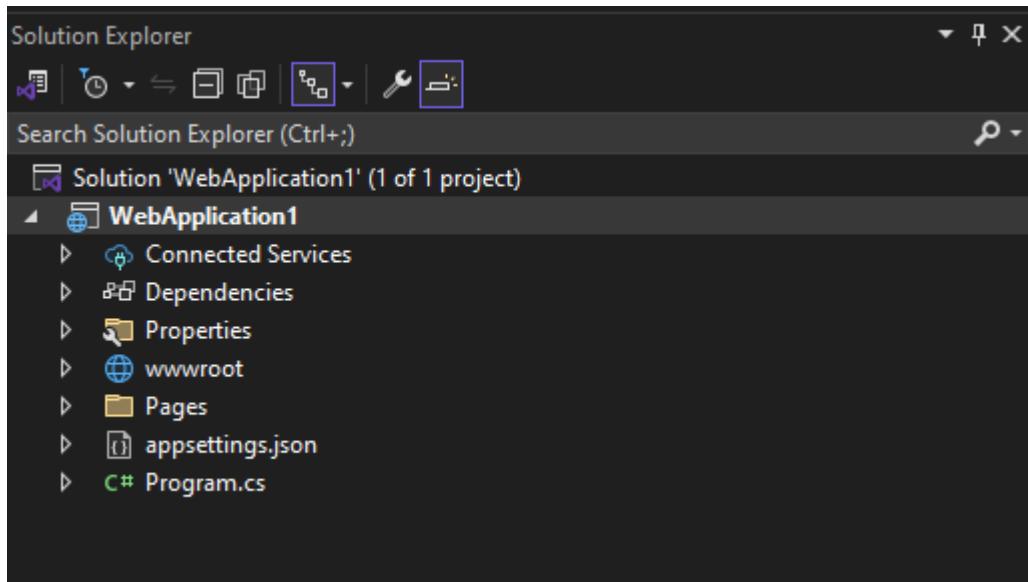
Aspire version i

9.0

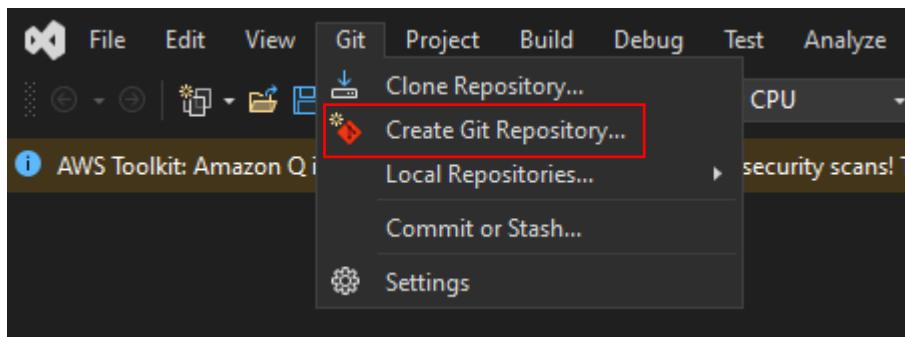
- Once your web app has been created, run it in the Visual Studio you will this page on the browser.



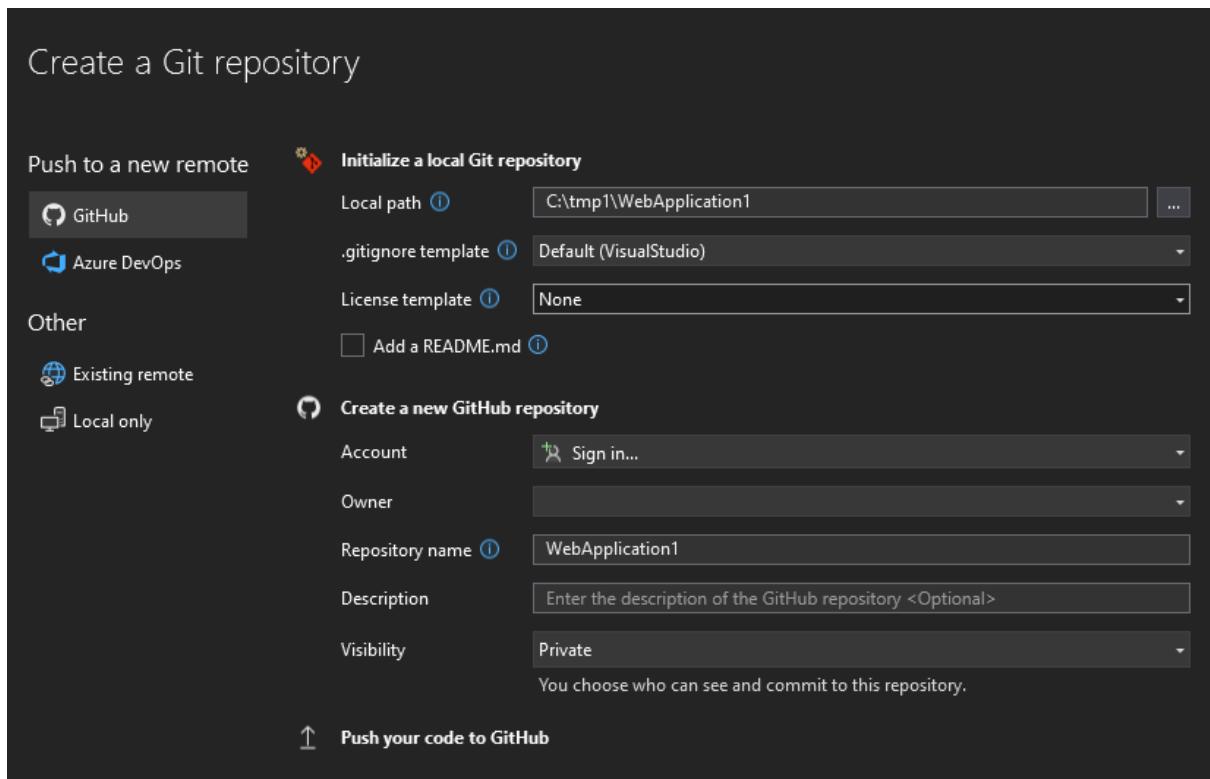
- Now if you look at the Solution Explorer you will see multiple files and folders. We can upload them all directly from Visual Studio 2022 onto our GitHub.



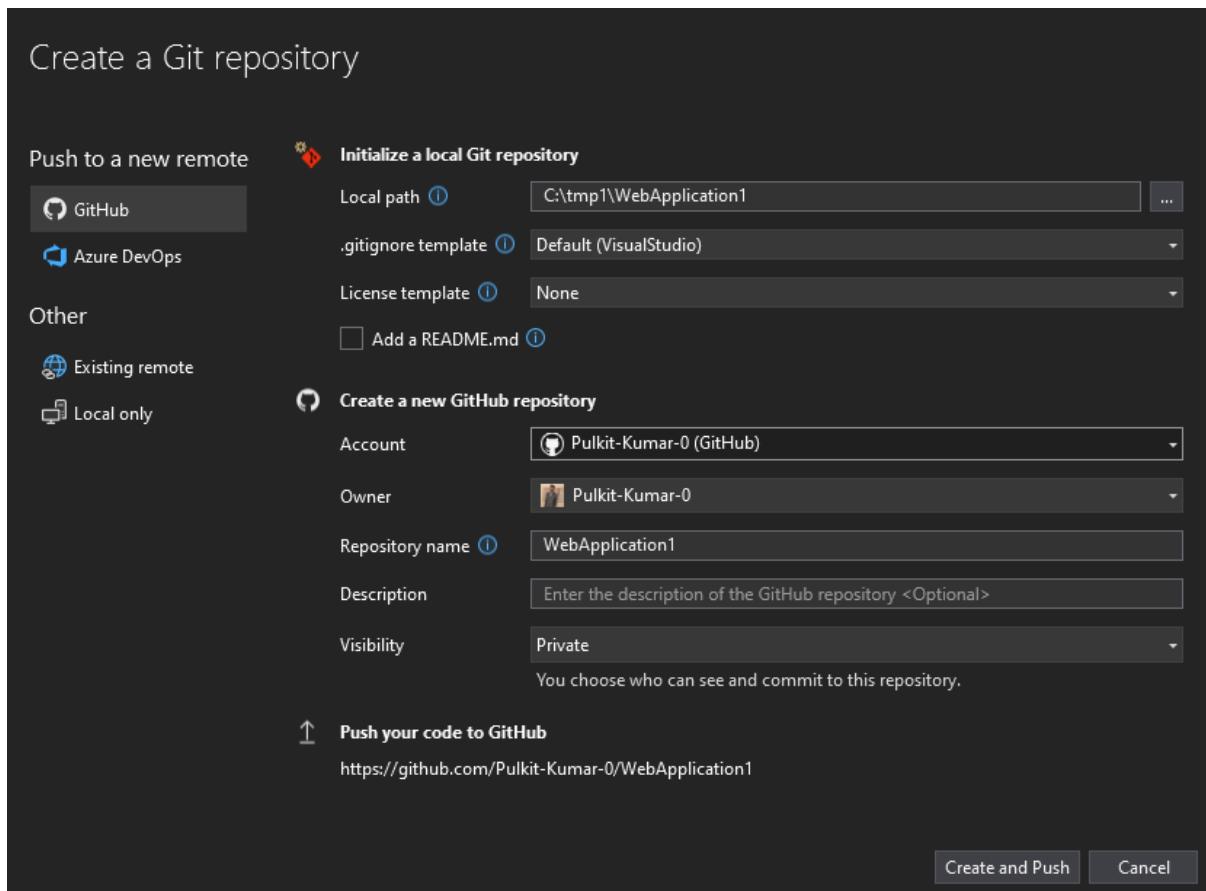
8. On the top pane of the Visual Studio, you will see an option for Git, click on it and choose Create Git Repository.



9. When doing this activity for the first time you will see that it will ask you to sign in with your GitHub account. Click on sign in.
10. So, it's doing two things. It's first initializing the local Git repository, committing everything, and then it's pushing all of this onto a remote GitHub repository.



11. We can also directly post this web app onto a GitHub repository but we are going to change our approach here and we will create an organization and in this, we will publish our web app or code.
12. Below you can see that we have signed in successfully with our account.

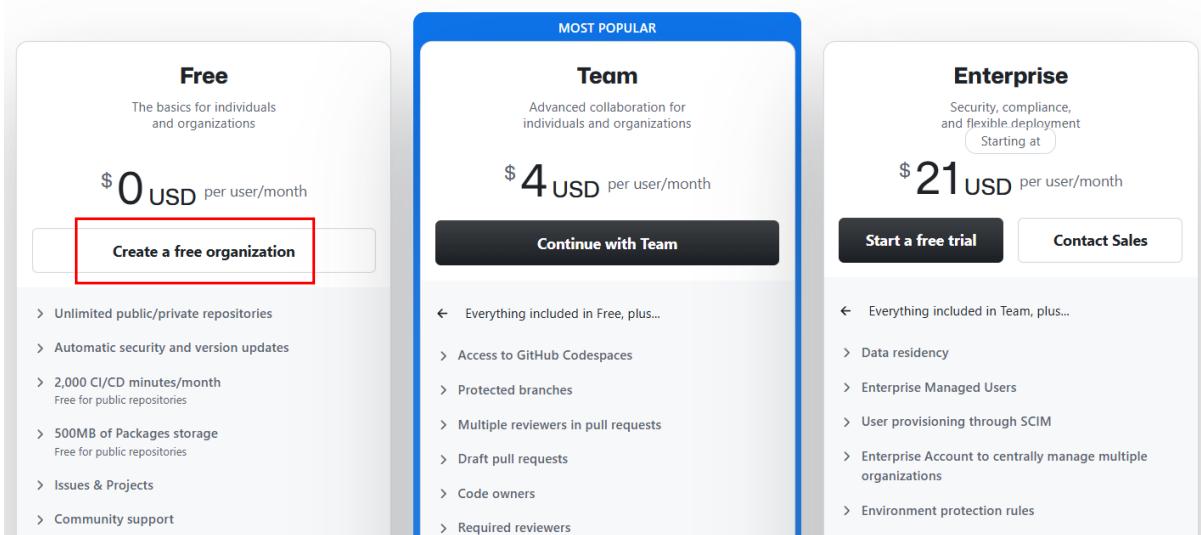


13. Open your GitHub account in any browser of your choice. Open the settings and here you have to choose organization. Then click on New Organization.

The screenshot shows the 'Organizations' section of the GitHub account settings. On the left, there's a sidebar with sections like 'Public profile', 'Account', 'Appearance', 'Accessibility', 'Notifications', 'Access', 'Billing and plans', 'Emails', 'Password and authentication', 'Sessions', 'SSH and GPG keys', 'Organizations' (which is highlighted with a red box), 'Enterprises', and 'Moderation'. The main area shows the message 'You are not a member of any organizations.' Below this is a 'Transform account' section with a button 'Turn Pulkit-Kumar-0 into an organization'. At the top right, there's a 'New organization' button, also highlighted with a red box.

14. Then you have to choose a plan, and pick the free organization plan. Click on Create.

Pick a plan for your organization



15. Now you just need to give an organization name, and your contact email, and for the time being choose that the organization belongs to your account.
16. After that skip the other steps and create your organization.

Tell us about your organization

Set up your organization

Organization name *

DevOps10-03

This will be the name of your account on GitHub.
Your URL will be: <https://github.com/DevOps10-03>.

Contact email *

This organization belongs to:

My personal account

i.e., Pulkit-Kumar-0 (Pulkit Kumar)

A business or institution

For example: GitHub, Inc., Example Institute, American Red Cross

17. For the second step choose, skip this step.

Start collaborating

Welcome to DevOps10-03

Add organization members

Organization members will be able to view repositories, organize into teams, review code, and tag other members using @mentions.

[Learn more about permissions for organizations →](#)

Search by username, full name or email address

[Complete setup](#)

[Skip this step](#)

18. After creating my organization, now if I go to the organization's tab I can see my organization. We can go inside of it and create new repositories.

Organizations

New organization

The screenshot shows the GitHub Organizations page. At the top right is a button labeled "New organization". Below it is a card for "DevOps10-03" which is owned by the user. To the right of the card are three buttons: "Compare plans", "Settings", and "Leave".

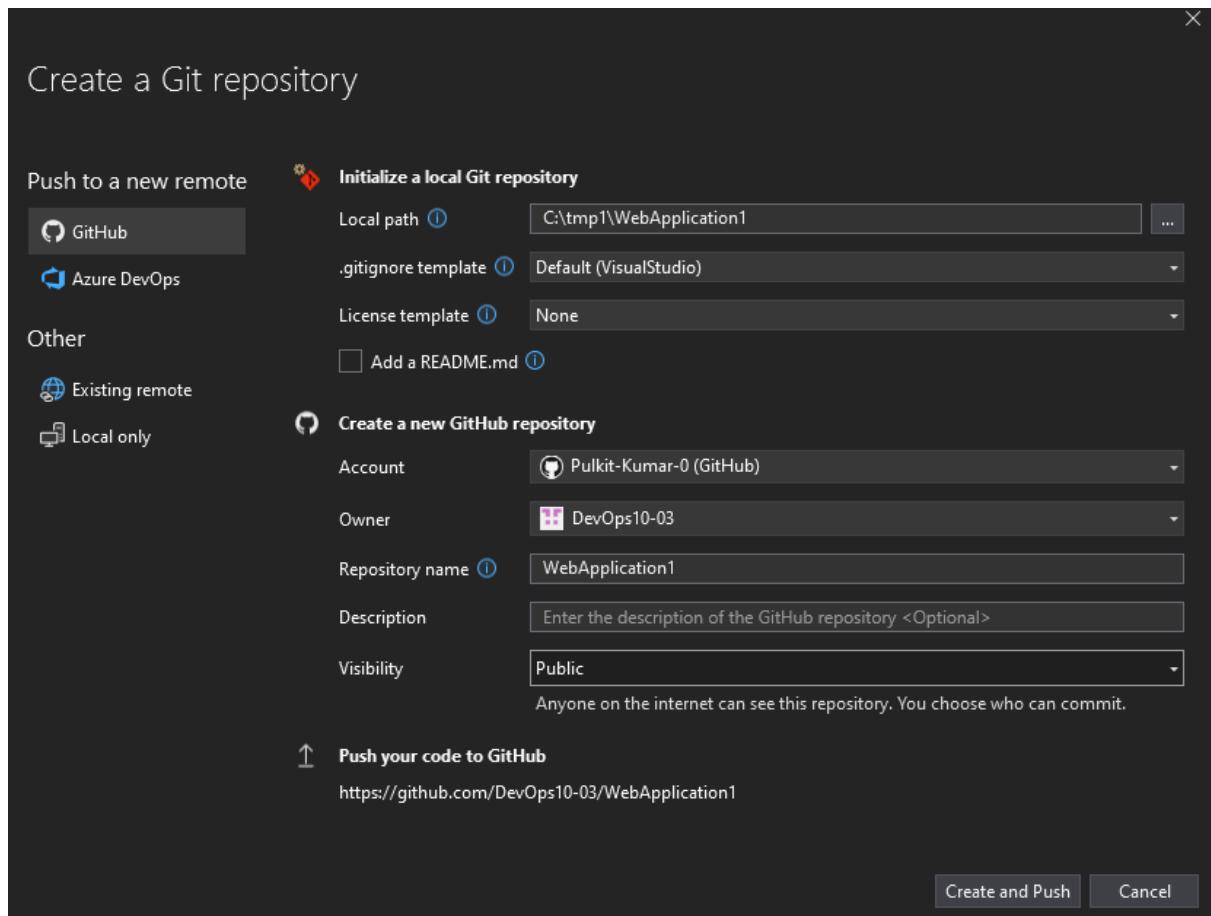
Transform account

You cannot transform this account into an organization until you leave all organizations that you're a member of.

[Turn Pulkit-Kumar-0 into an organization](#)

The screenshot shows the GitHub Repositories page for the "DevOps10-03" organization. The left sidebar has a "Repositories" section with options like All, Public, Private, Sources, Forks, Archived, and Templates. The main area shows a search bar and a message: "0 repositories" and "This organization has no repositories." A "New repository" button is located at the bottom right of the main area.

19. Now come back to Visual Studio and again click on Git. This time you can change the owner with the organization we just created and also change the visibility to public as we are going to create a public repository. In the end just click on Create and push.



20. If you go to the repositories in your organization and click on refresh then you can see the repository here and if you inside of it then you can see the files.

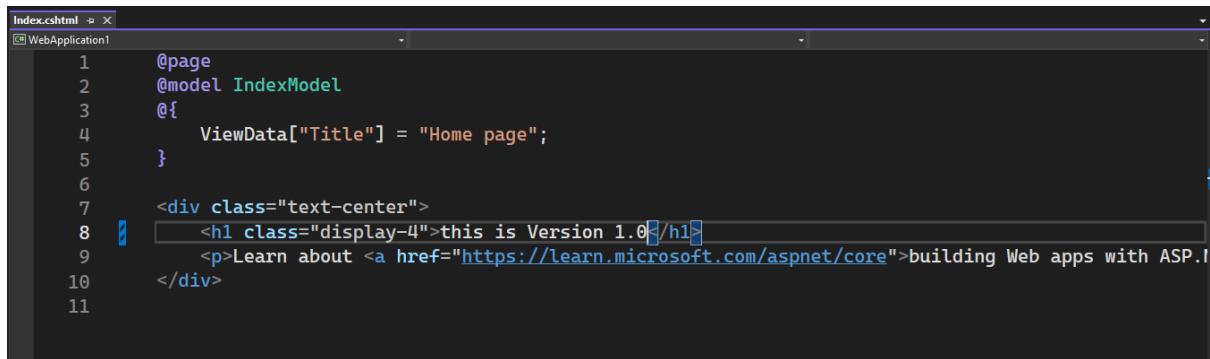
The screenshot shows the GitHub organization page for 'DevOps10-03'. The top navigation bar includes 'Overview', 'Repositories' (selected), 'Projects', 'Packages', 'Teams', 'People', 'Insights', and 'Settings'. The sidebar on the left has sections for 'Repositories' (All, Public, Private, Sources, Forks, Archived, Templates), 'Issues' (All, Open, Closed), 'Pull requests' (All, Open, Closed), and 'Code' (All, Public, Private, Sources). The main area displays the repository list under 'Repositories'. It shows '1 repository' named 'WebApplication1' (Public, Last pushed: Updated now, HTML, Issues, Stars, Forks, Pull requests). There are buttons for 'New repository' and a search bar.

21. If you go inside the folder also you can see the git files present here.

Name	Date modified	Type	Size
.git	10-03-2025 11:57	File folder	
.vs	10-03-2025 11:07	File folder	
WebApplication1	10-03-2025 11:07	File folder	
.gitattributes	10-03-2025 11:57	Git Attributes Sour...	3 KB
.gitignore	10-03-2025 11:57	Git Ignore Source ...	7 KB
WebApplication1.sln	10-03-2025 11:07	Visual Studio Solu...	2 KB

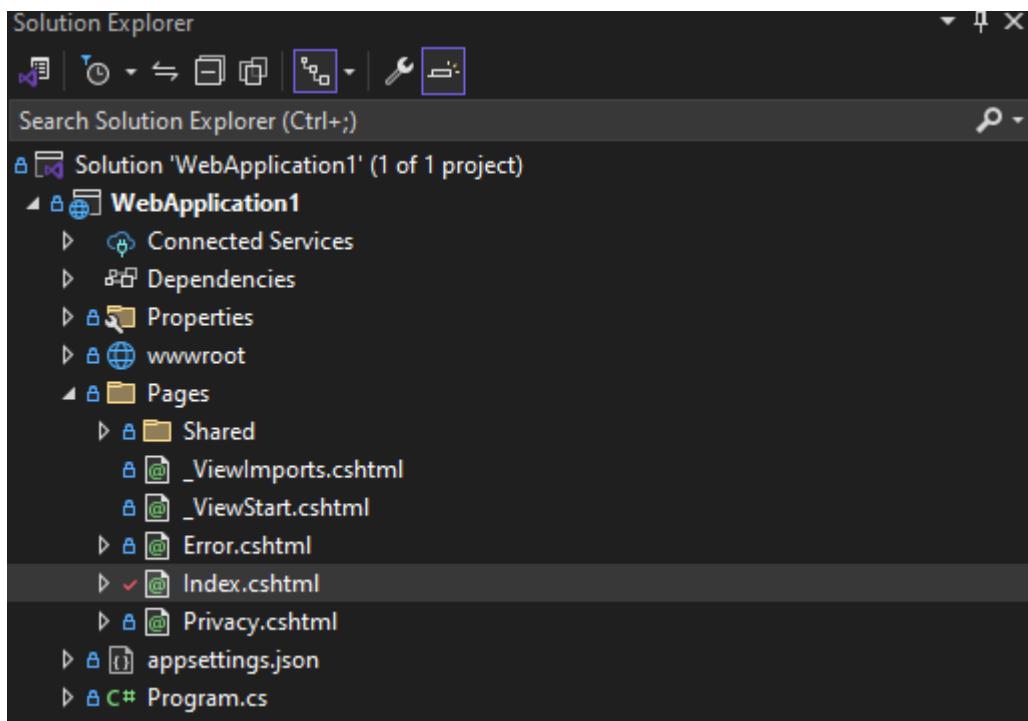
22. In the visual studio in the solution explorer, you can see a lock type symbol has been assigned to your files it means that these files are being tracked.

23. Now if you want to make a change. In the Index.cshtml I made a small change and saved it.

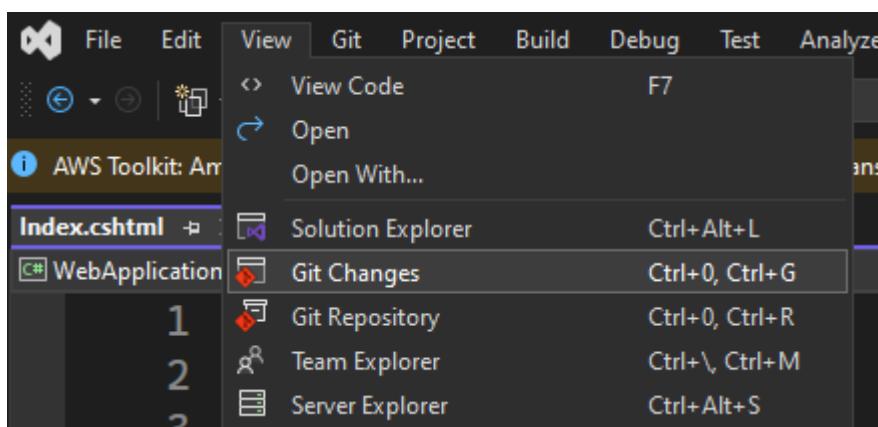


```
Index.cshtml
WebApplication1
1 @page
2 @model IndexModel
3 @{
4     ViewData["Title"] = "Home page";
5 }
6
7 <div class="text-center">
8     <h1 class="display-4">this is Version 1.0</h1>
9     <p>Learn about <a href="https://learn.microsoft.com/aspnet/core">building Web apps with ASP.NET Core</a></p>
10    </div>
11
```

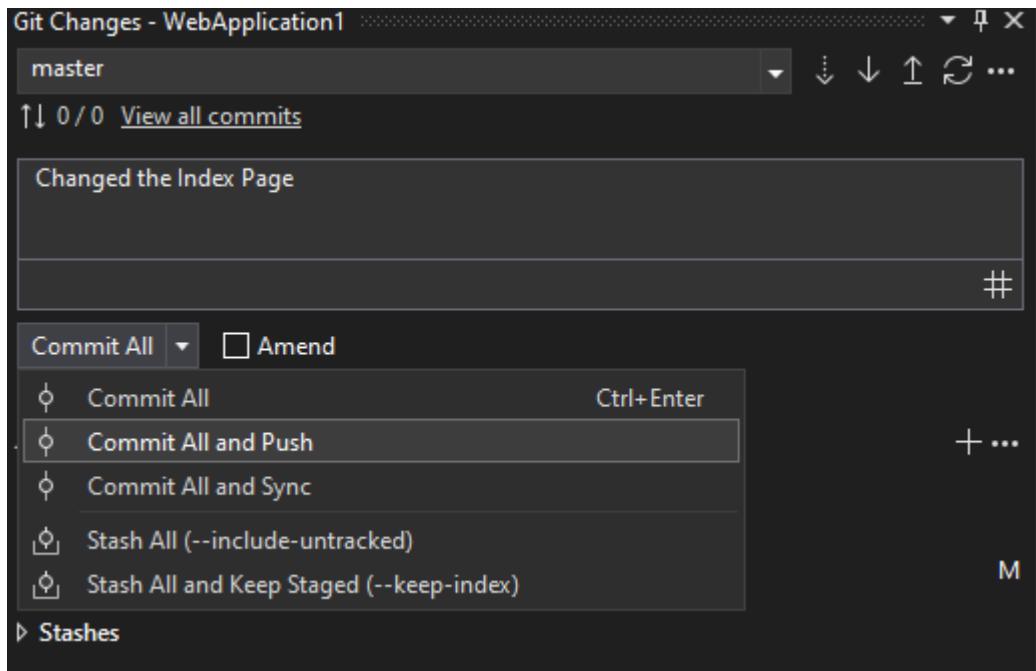
24. So, in the solution explorer, you can see on that particular file there is a tick symbol this denotes that a change has been made onto the file and you need to commit this change.



25. So, from the View tab you need to choose Git changes.



26. Here you need to give a message to commit and choose commit all and push.



27. If you go inside the pages in your GitHub repository you will see the change with the commit message.

The screenshot shows the GitHub repository 'WebApplication1' with the 'Pages' tab selected. A commit for 'Index.cshtml' is highlighted with a red border. The commit message is 'Changed the Index Page' and it was made '1 minute ago'. The commit details also mention 'Add project files.' and the date '6742cb4 · 1 minute ago'.

Name	Last commit message	Last commit date
...	Add project files.	21 minutes ago
Shared	Add project files.	21 minutes ago
Error.cshtml	Add project files.	21 minutes ago
Error.cshtml.cs	Add project files.	21 minutes ago
Index.cshtml	Changed the Index Page	1 minute ago
Index.cshtml.cs	Add project files.	21 minutes ago
Privacy.cshtml	Add project files.	21 minutes ago
Privacy.cshtml.cs	Add project files.	21 minutes ago
_ViewImports.cshtml	Add project files.	21 minutes ago
_ViewStart.cshtml	Add project files.	21 minutes ago

28. So, within Visual Studio now, we have the ability to integrate it with a Git repository, not only locally, but have an integration with GitHub itself.