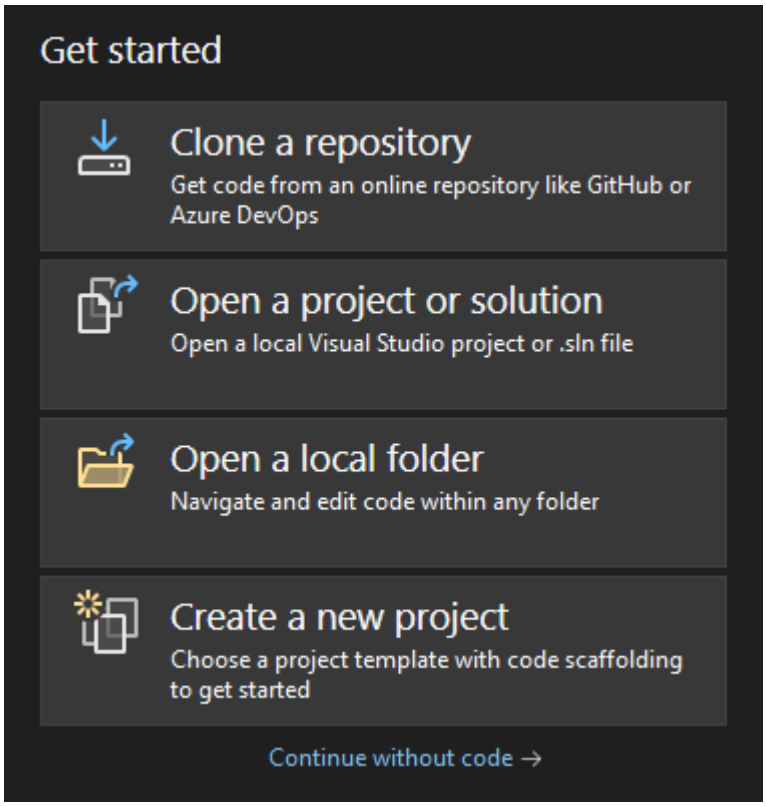
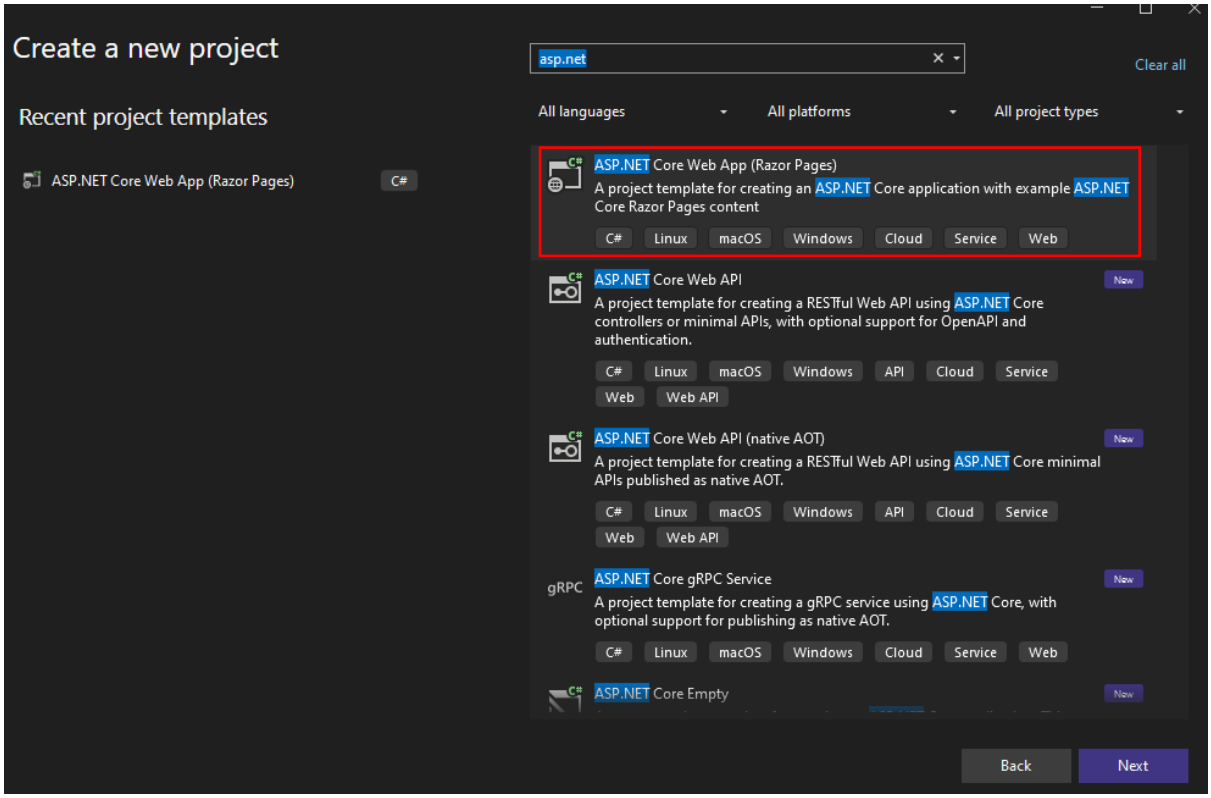
😊 Publishing Code from Visual Studio

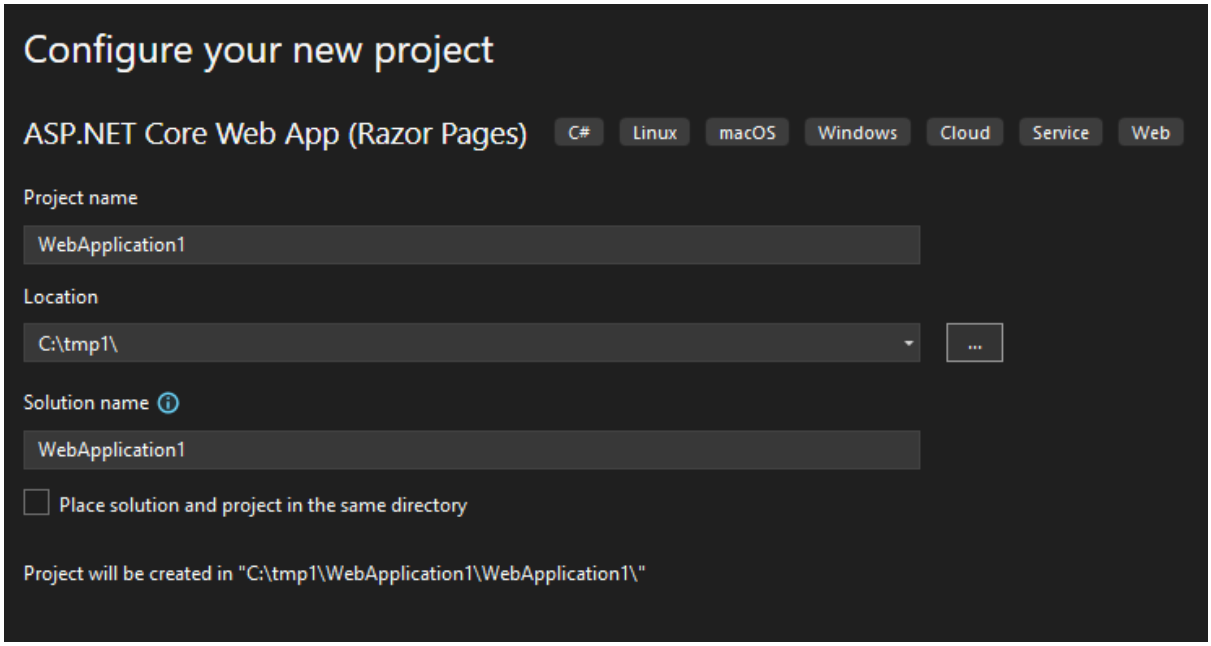
1. In this lab we will use Visual Studio 2022 to publish our project onto GitHub.
2. But first we need to create a simple project in Visual Studio. Open it from the Get Started pane and choose to create a new project.



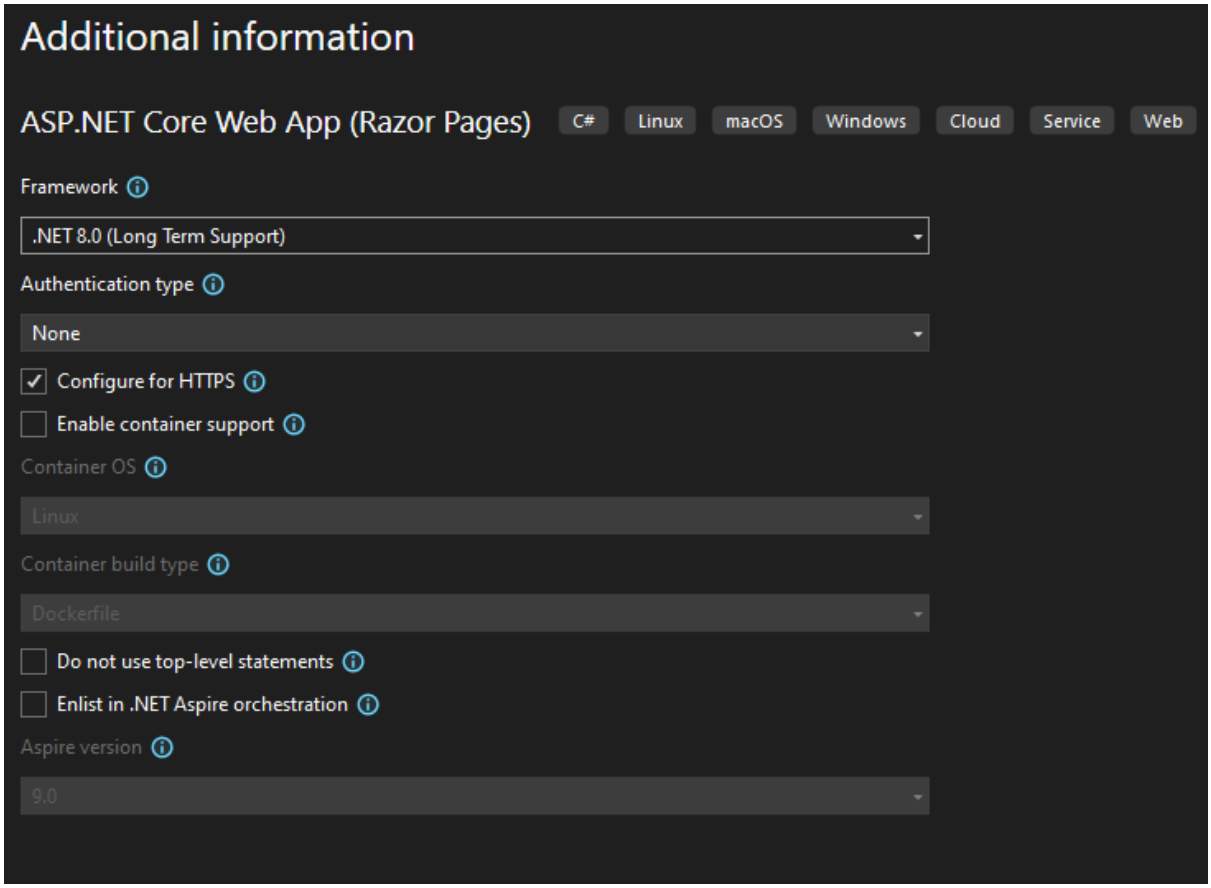
3. In the search menu write asp.net and choose the first Web App.



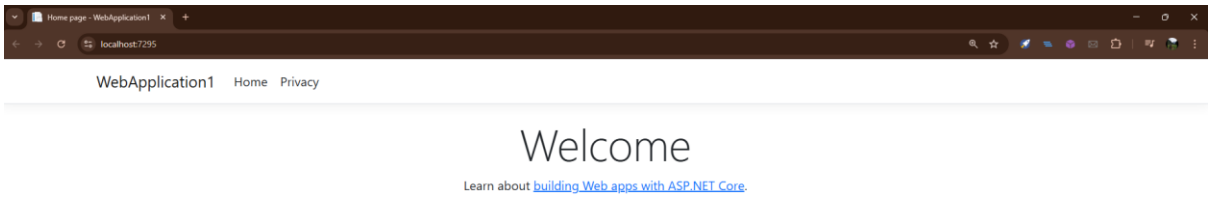
4. Then just configure the project name and location.



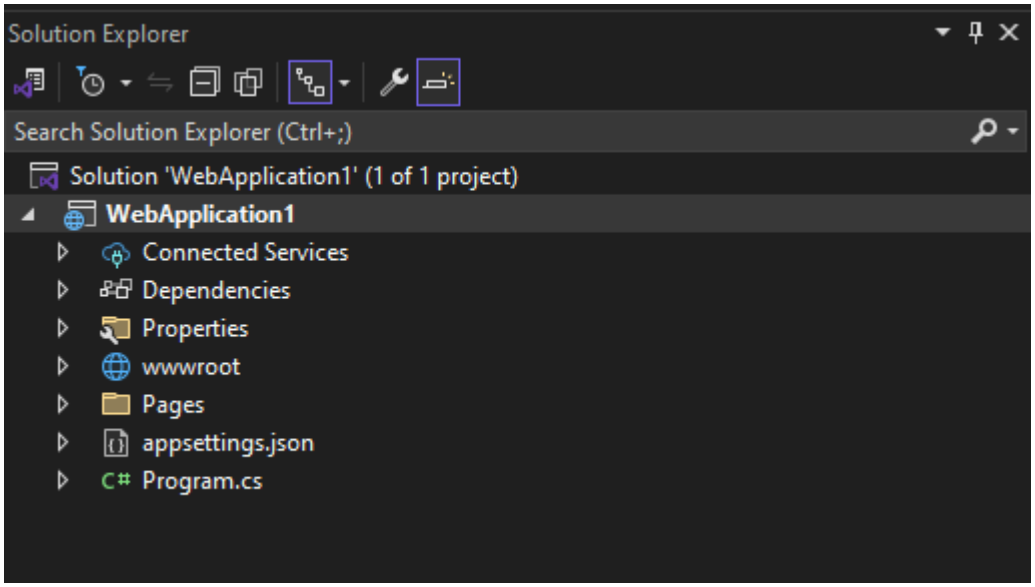
5. Choose dot net 8 for the Long term support and create your web app.



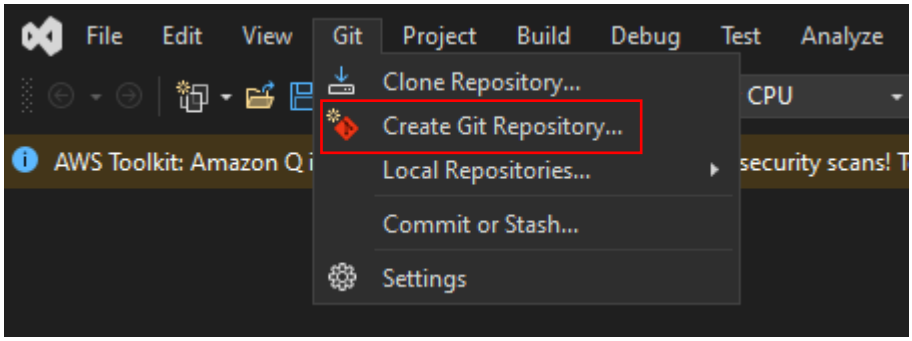
6. Once your web app has been created, run it in the Visual Studio you will this page on the browser.



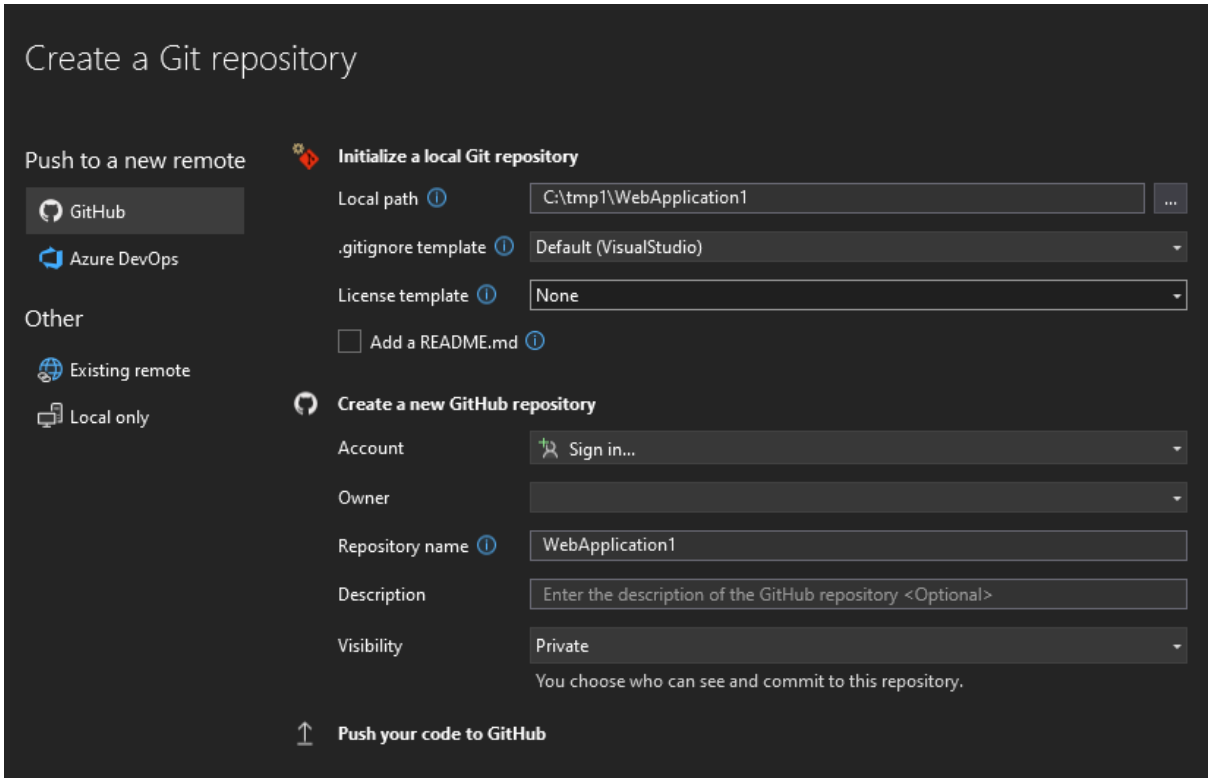
7. Now if you look at the Solution Explorer you will see multiple files and folders. We can upload them all directly from Visual Studio 2022 onto our GitHub.



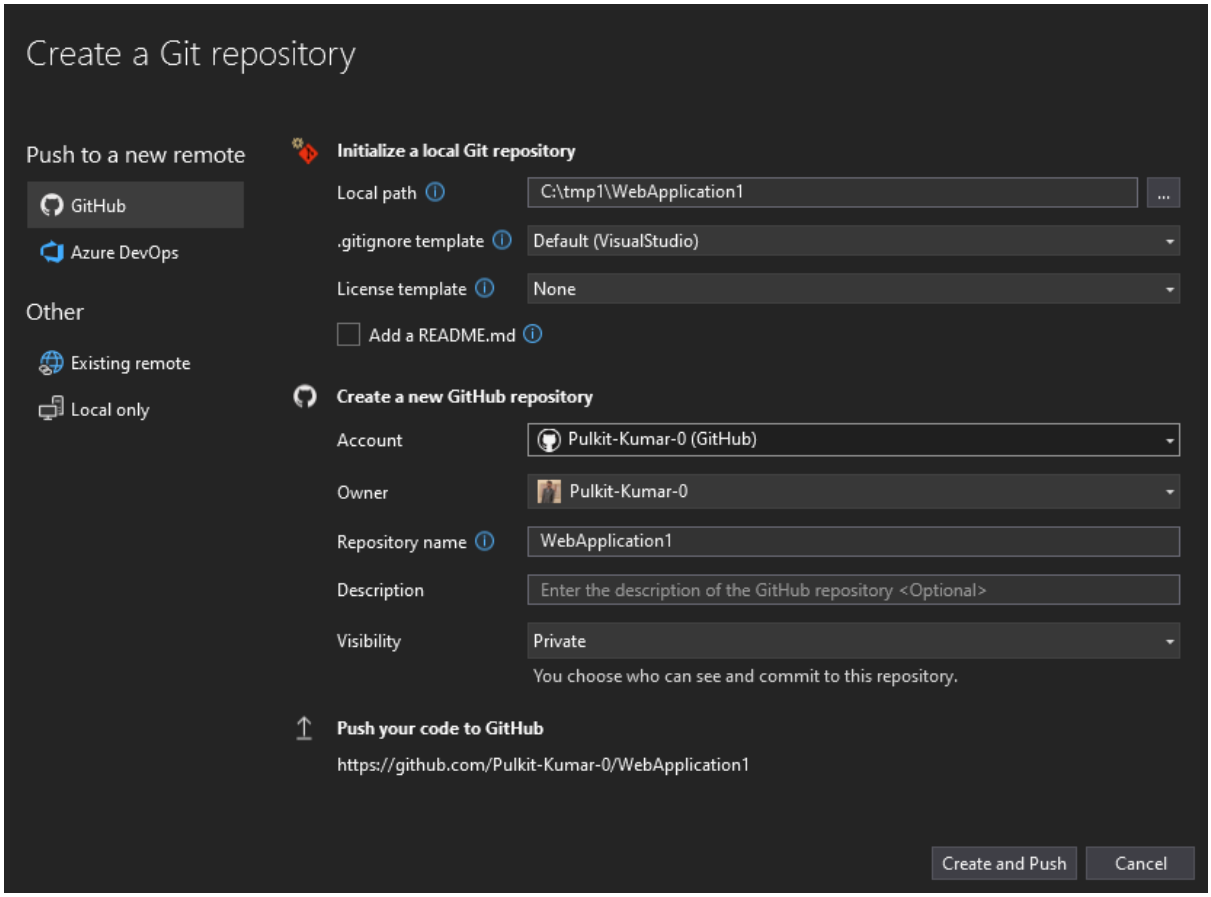
8. On the top pane of the Visual Studio, you will see an option for Git, click on it and choose Create Git Repository.



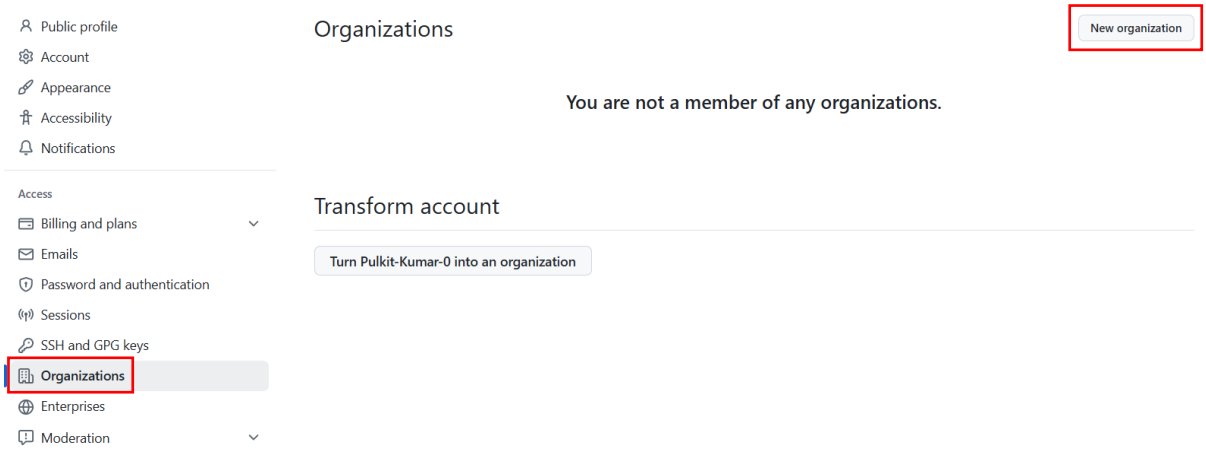
9. When doing this activity for the first time you will see that it will ask you to sign in with your GitHub account. Click on sign in.
10. So, it's doing two things. It's first initializing the local Git repository, committing everything, and then it's pushing all of this onto a remote GitHub repository.



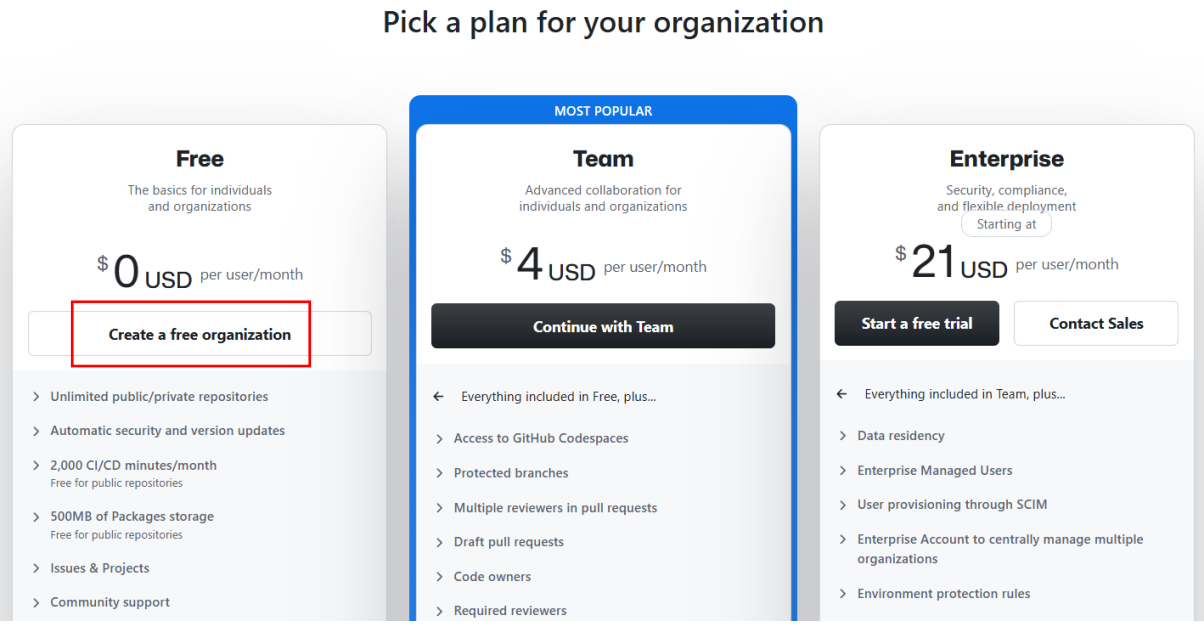
11. We can also directly post this web app onto a GitHub repository but we are going to change our approach here and we will create an organization and in this, we will publish our web app or code.
12. Below you can see that we have signed in successfully with our account.



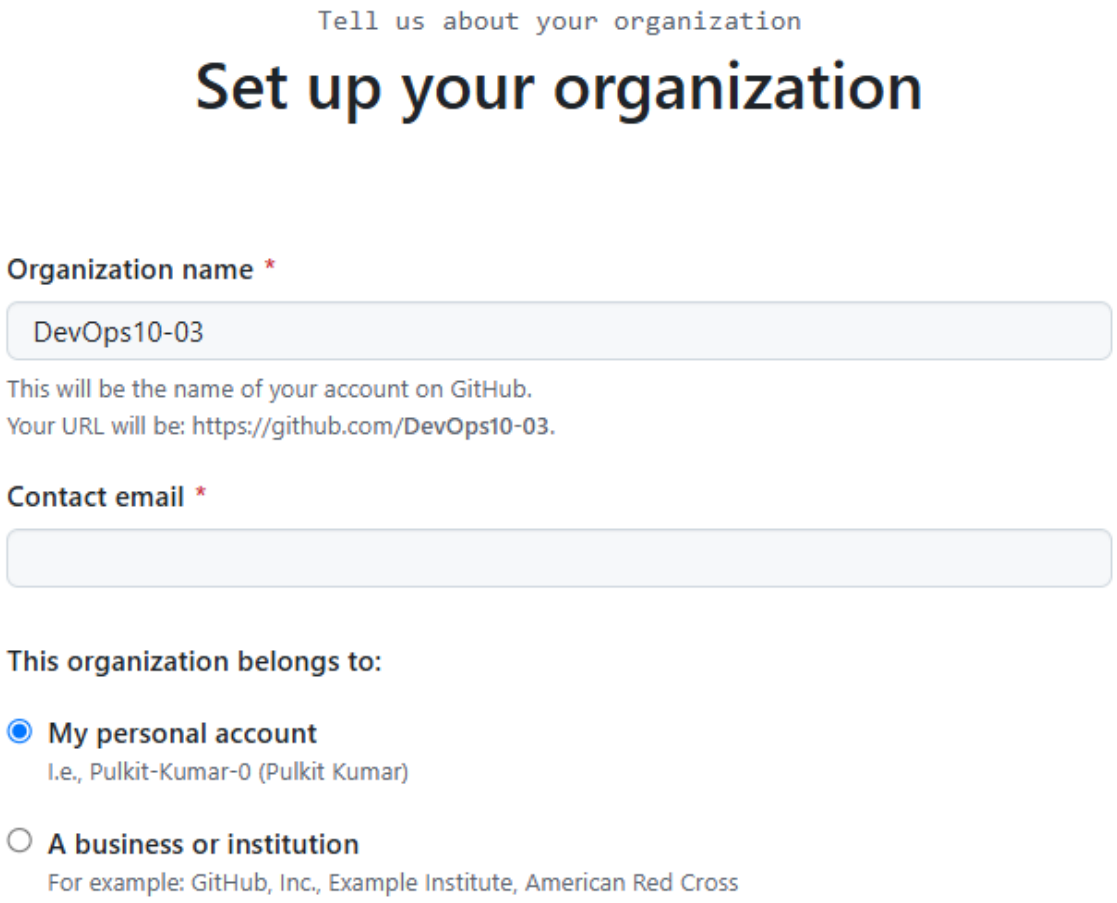
13. Open your GitHub account in any browser of your choice. Open the settings and here you have to choose organization. Then click on New Organization.



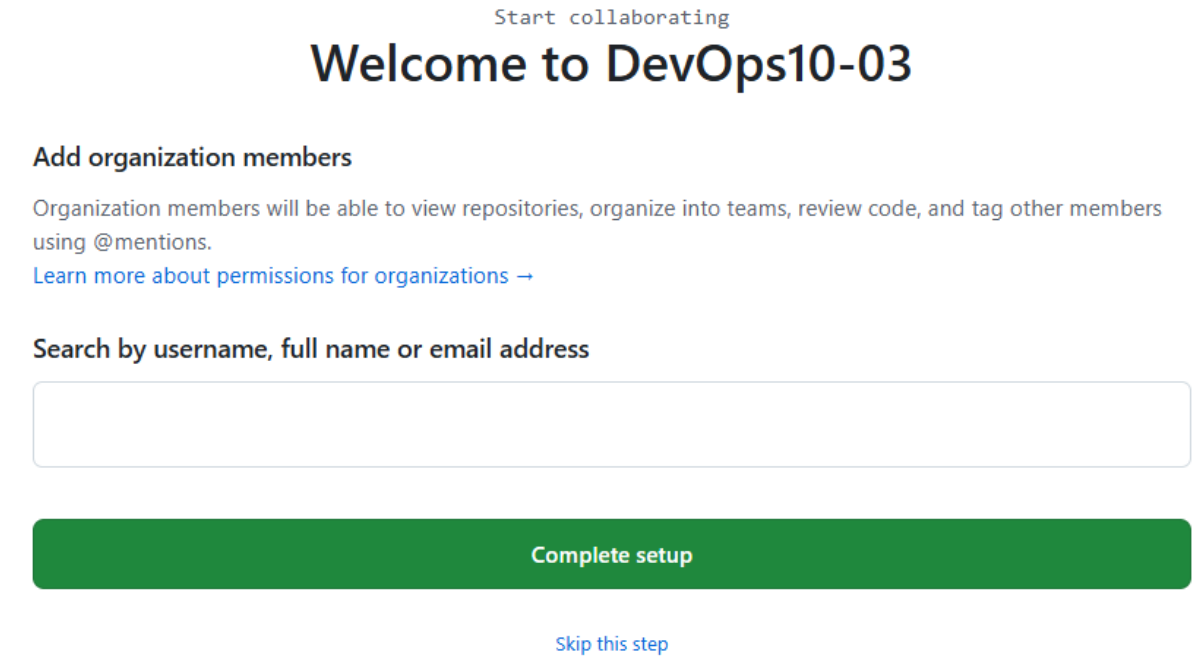
14. Then you have to choose a plan, and pick the free organization plan. Click on Create.



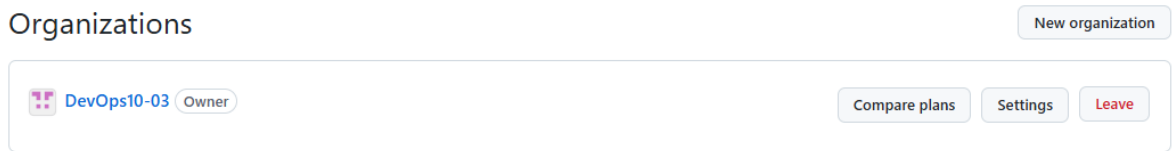
15. Now you just need to give an organization name, and your contact email, and for the time being choose that the organization belongs to your account.
16. After that skip the other steps and create your organization.

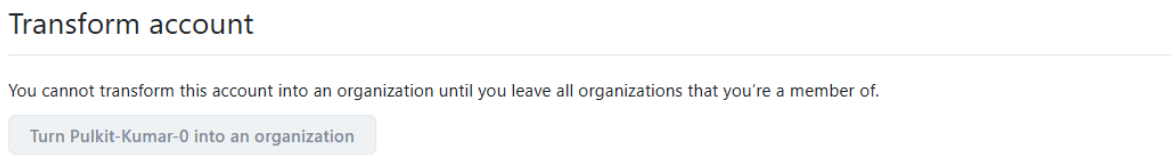


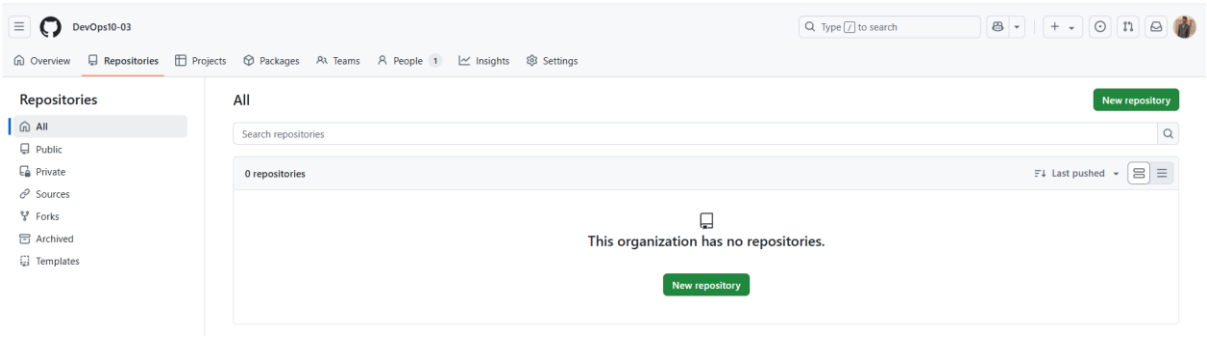
17. For the second step choose, skip this step.



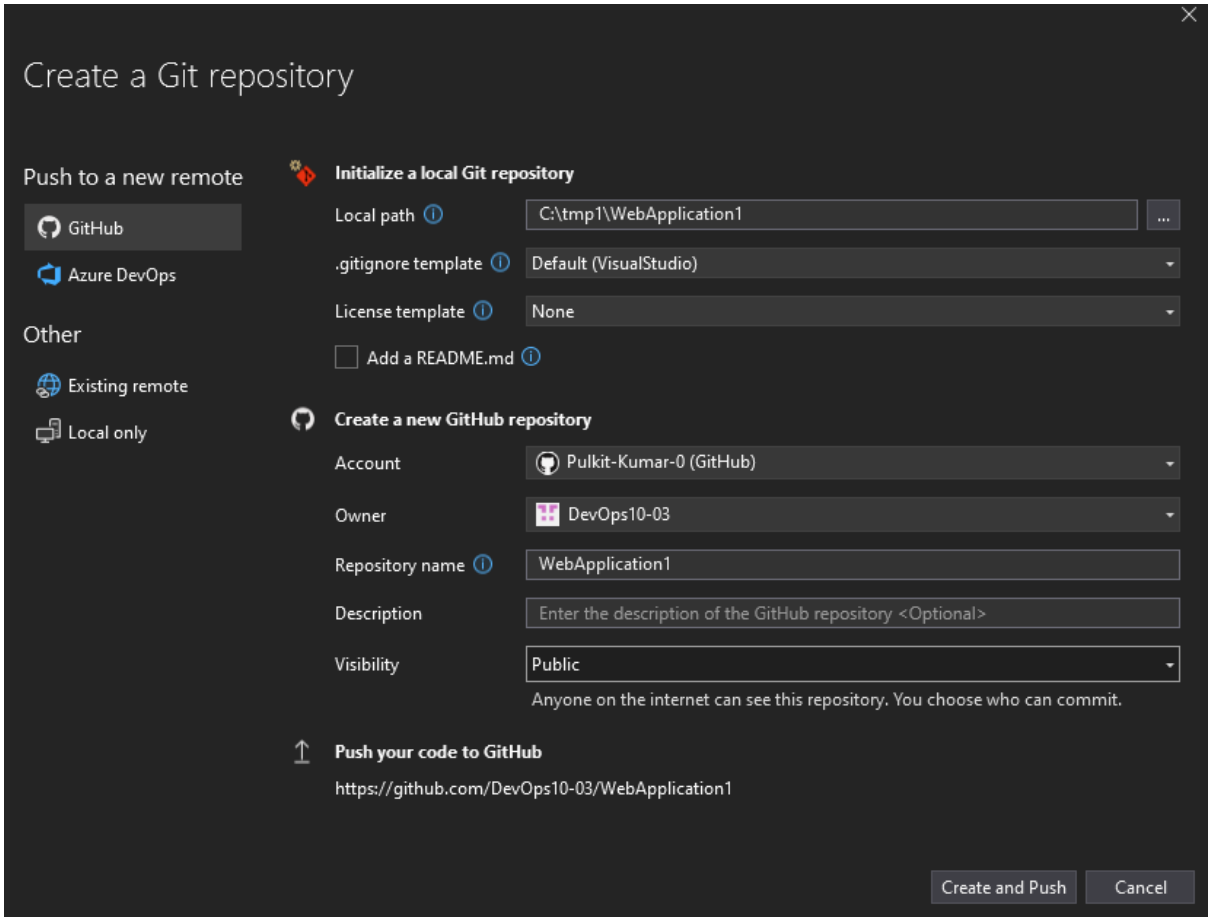
18. After creating my organization, now if I go to the organization's tab I can see my organization. We can go inside of it and create new repositories.



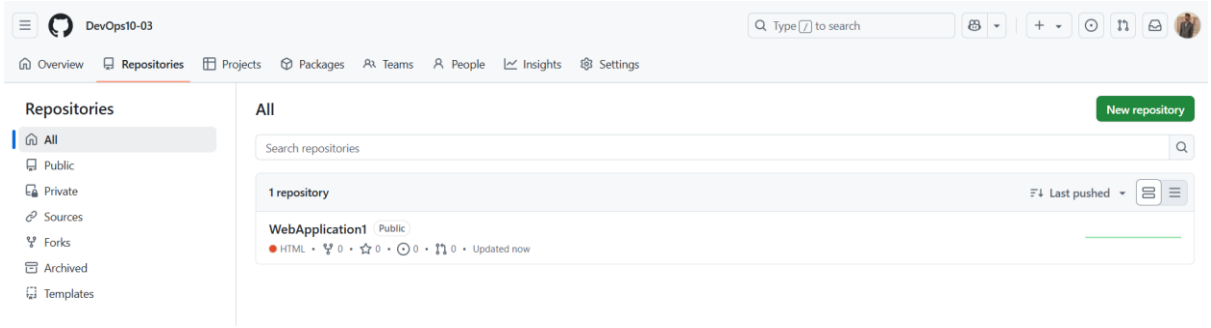


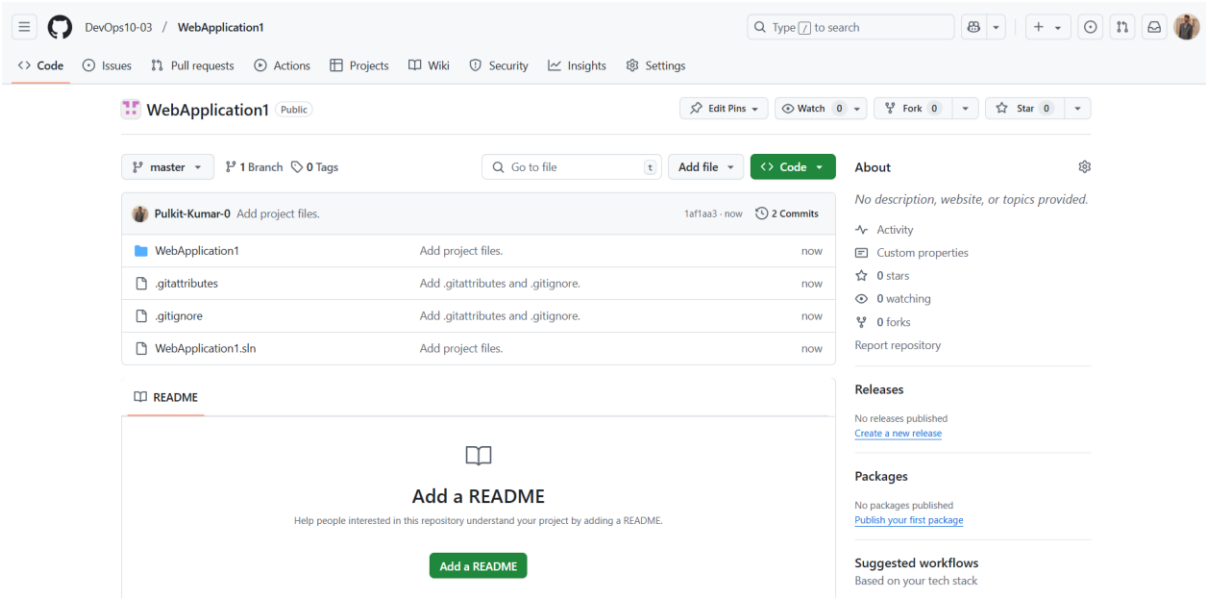


19. Now come back to Visual Studio and again click on Git. This time you can change the owner with the organization we just created and also change the visibility to public as we are going to create a public repository. In the end just click on Create and push.

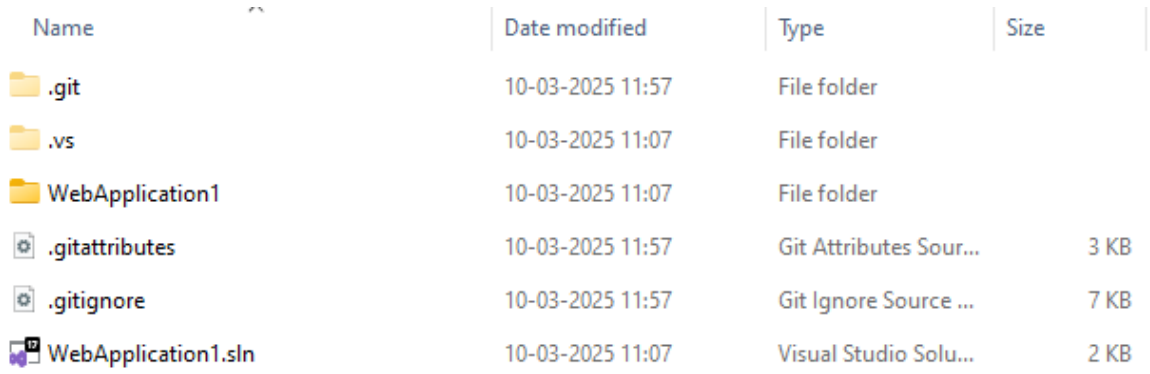


20. If you go to the repositories in your organization and click on refresh then you can see the repository here and if you inside of it then you can see the files.

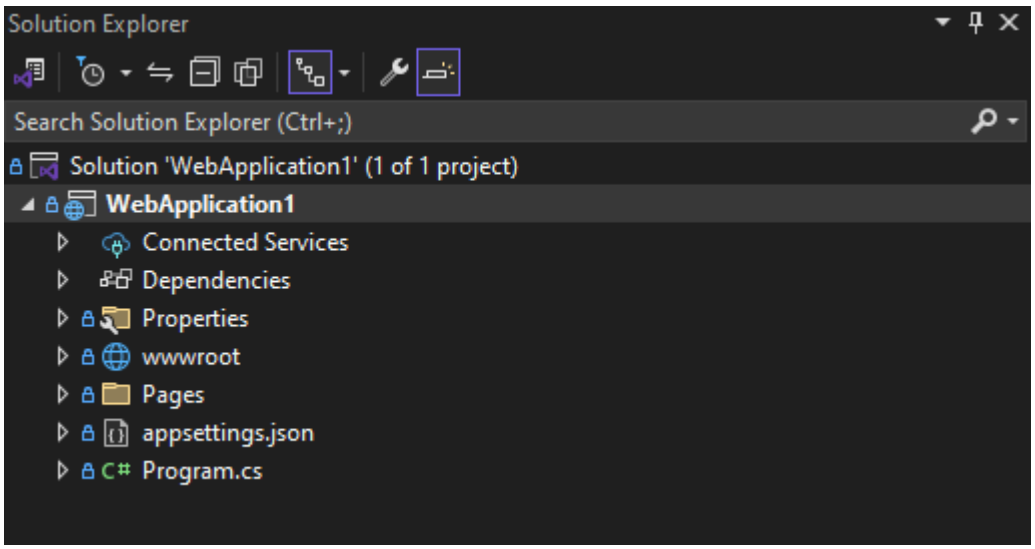




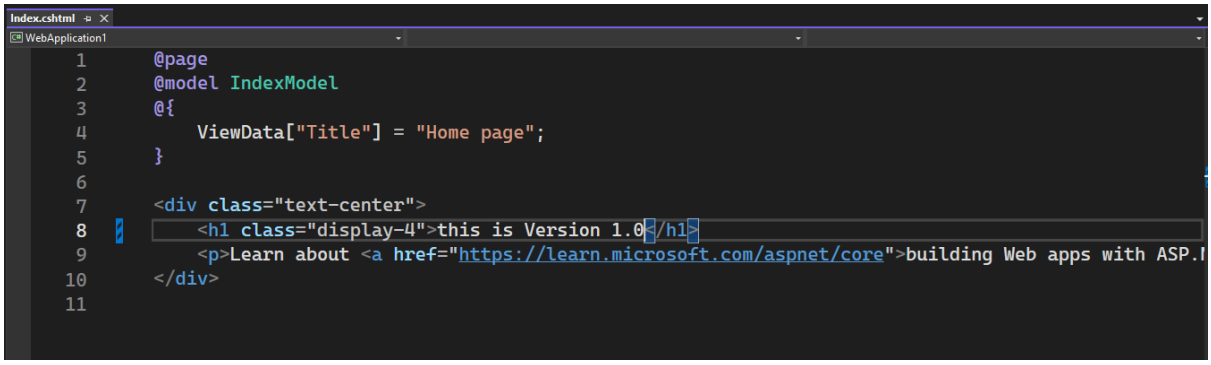
21. If you go inside the folder also you can see the git files present here.



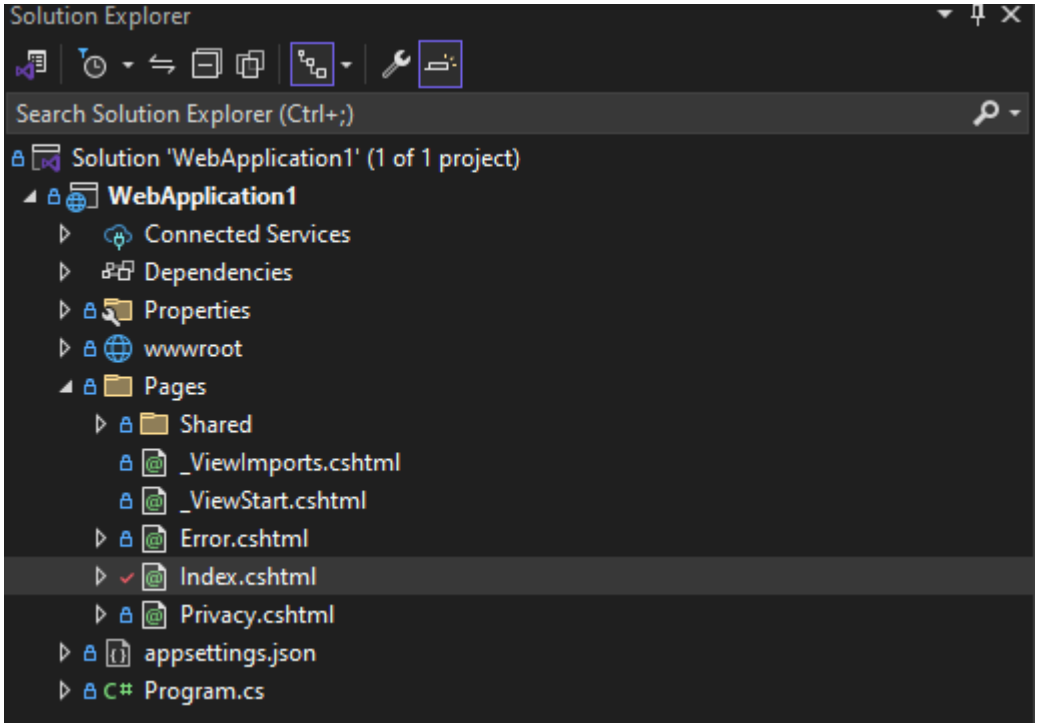
22. In the visual studio in the solution explorer, you can see a lock type symbol has been assigned to your files it means that these files are being tracked.



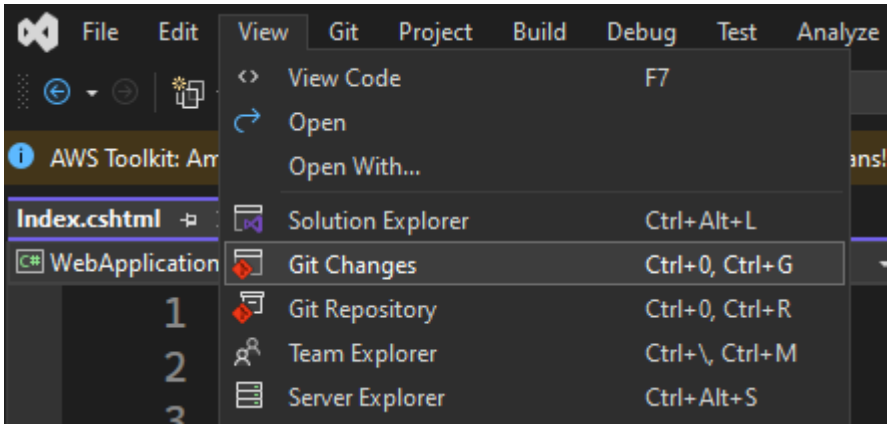
23. Now if you want to make a change. In the Index.cshtml I made a small change and saved it.



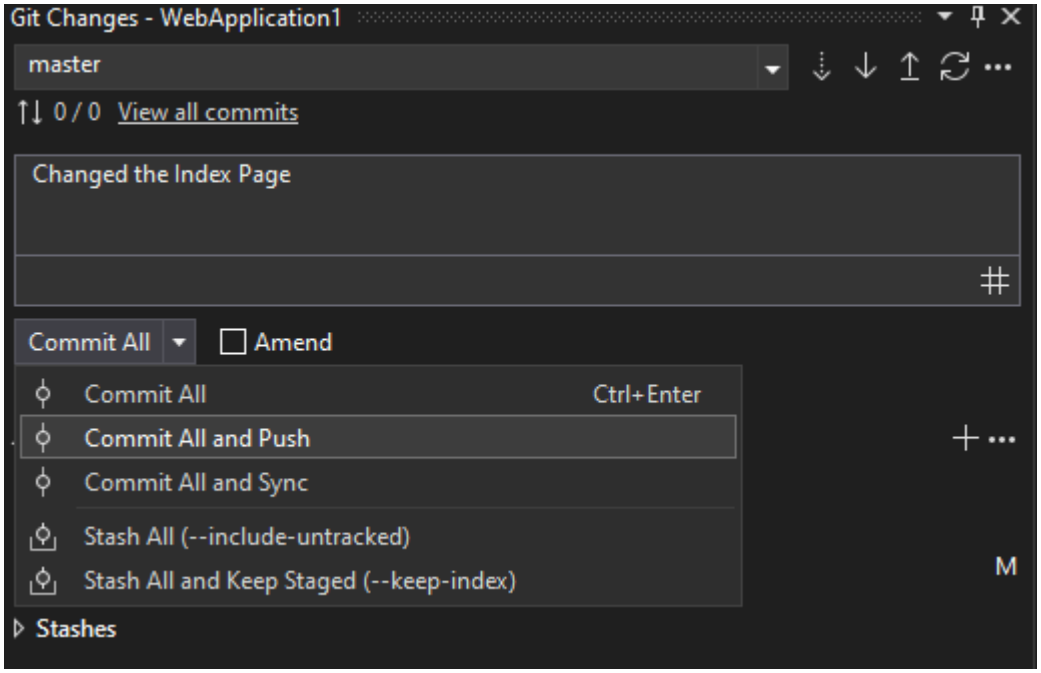
24. So, in the solution explorer, you can see on that particular file there is a tick symbol this denotes that a change has been made onto the file and you need to commit this change.



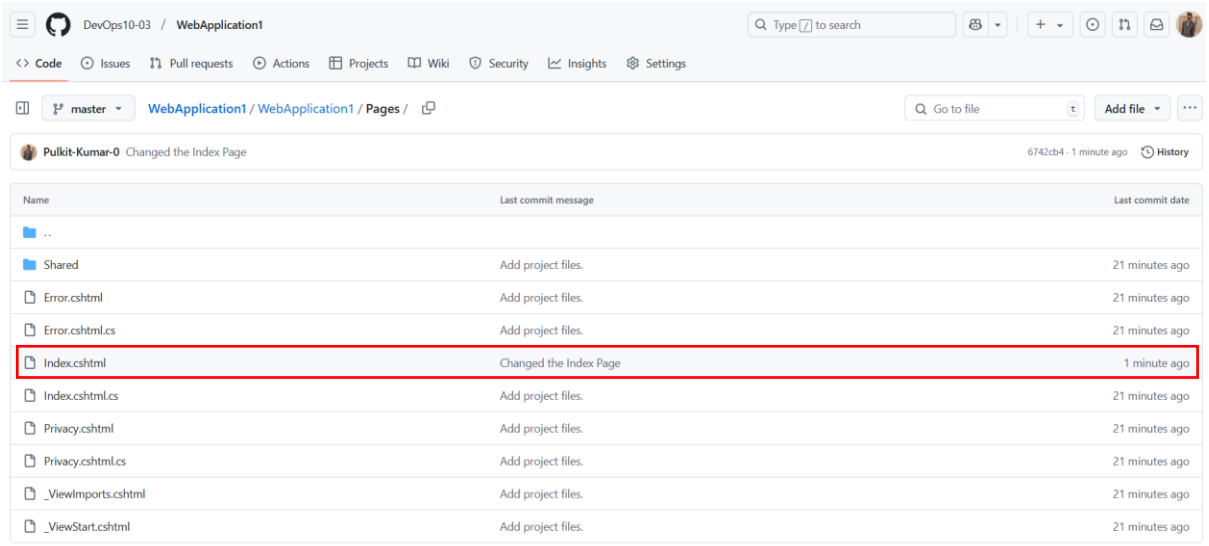
25. So, from the View tab you need to choose Git changes.



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.



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.