

Harry's notes for software development

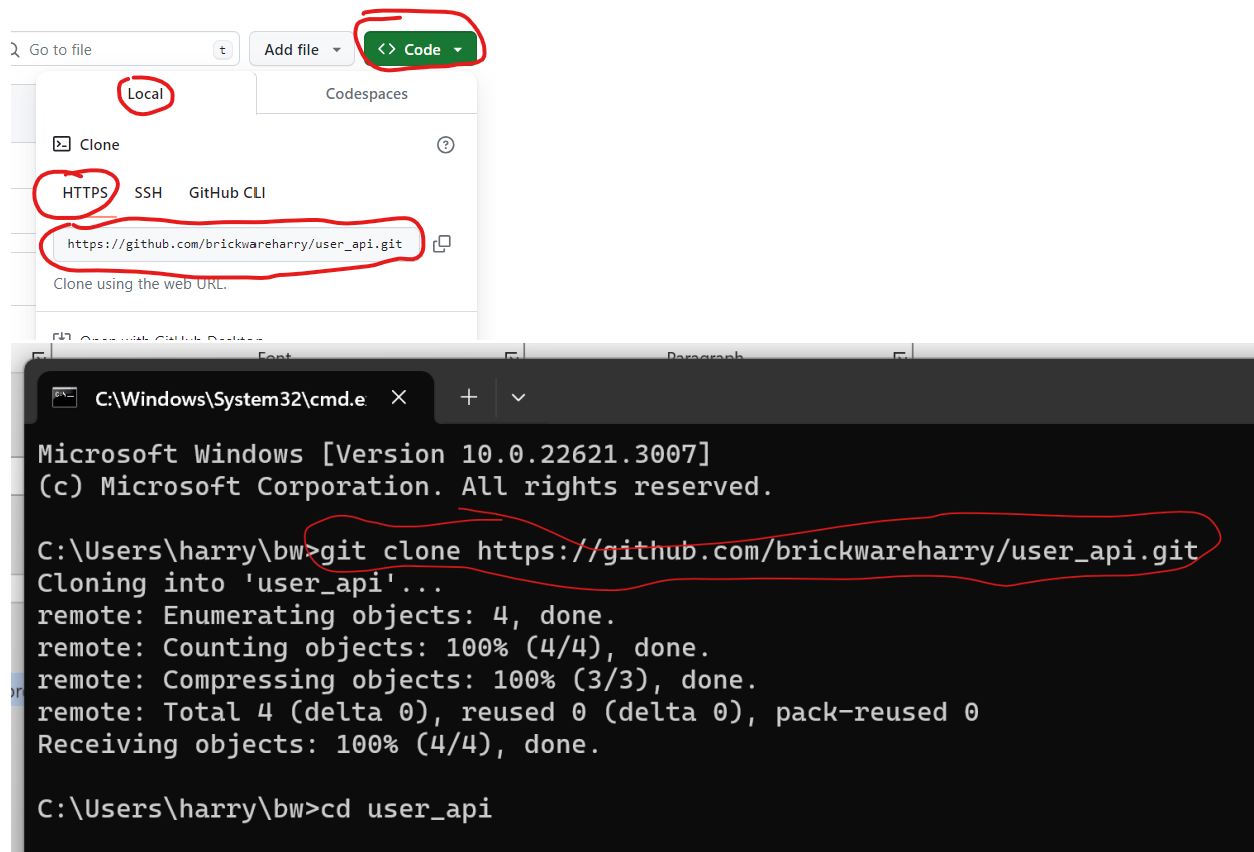
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1 GitHub related

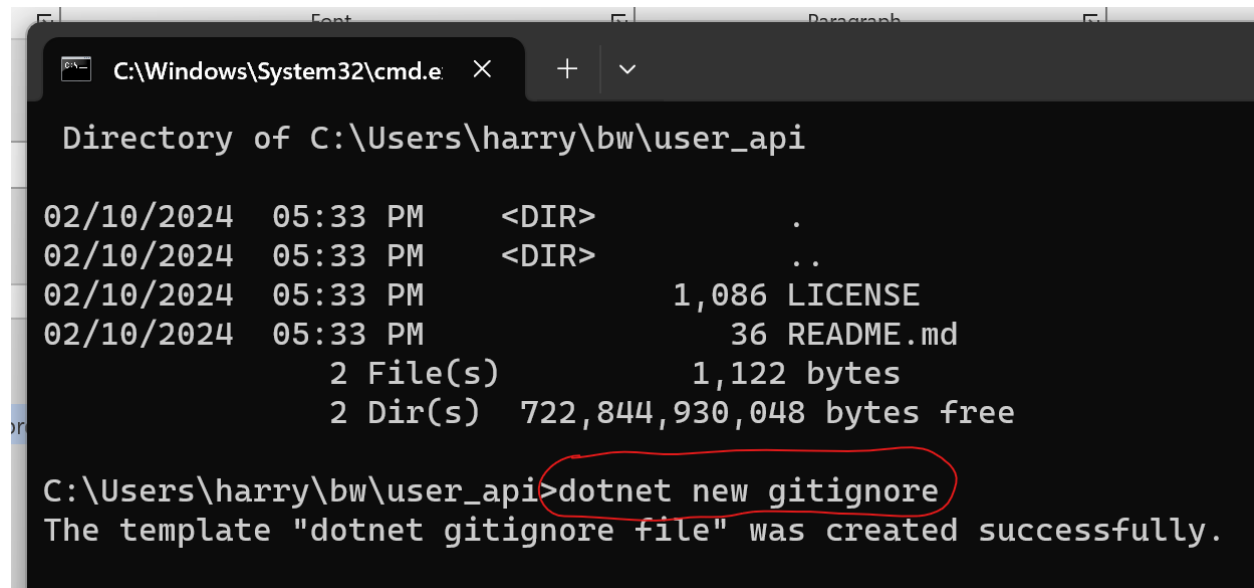
1.1 Git clone

git clone <<URL of git repository, see screenshot below>>



1.2 Create gitignore for .NET

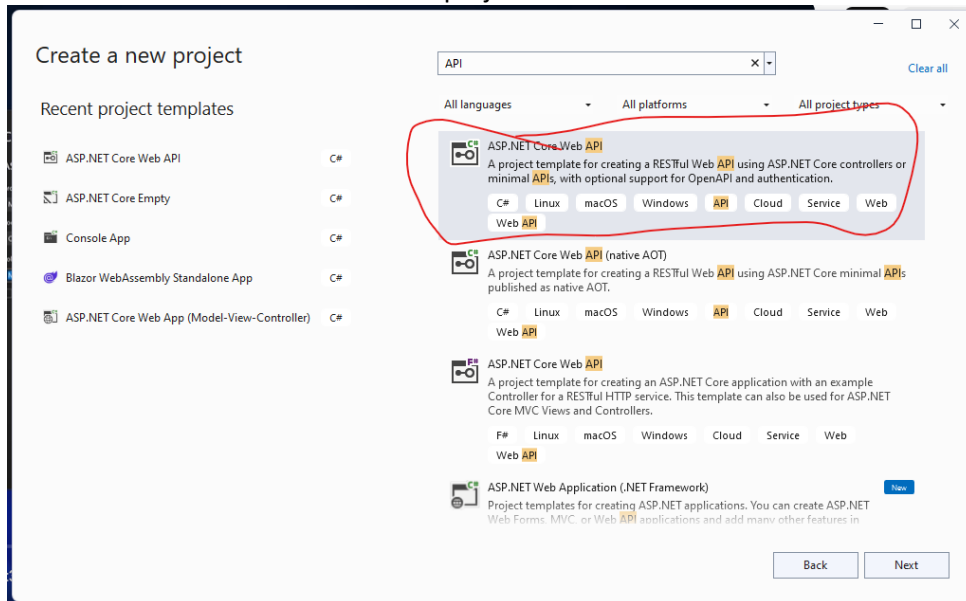
Give command "dotnet new gitignore" in the Command Prompt of the local repository, see screenshot below



2 API (.NET)

2.1 Create API

- Create a new ASP.NET Core Web API project in Visual Studio



Configure your new project

ASP.NET Core Web API C# Linux macOS Windows API Cloud Service Web Web API

Project name
UserApi

Location
C:\Users\harry\bw\user_api\

Solution name ⓘ
UserApi

☐ Place solution and project in the same directory

Project will be created in "C:\Users\harry\bw\user_api\UserApi\UserApi"

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Additional information

ASP.NET Core Web API C# Linux macOS Windows API Cloud Service Web Web API

Framework ⓘ
.NET 8.0 (Long Term Support)

Authentication type ⓘ
None

☒ Configure for HTTPS ⓘ

☐ Enable Docker ⓘ

Docker OS ⓘ
Linux

☒ Enable OpenAPI support ⓘ

☐ Do not use top-level statements ⓘ

☒ Use controllers ⓘ

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3 Controller – .NET

3.1 What make the controller to be a controller

- Has a suffix of Controller in the name of the class and file
 - Example: UserApiController
- Derive from the ControllerBase class under namespace of Microsoft.AspNetCore.Mvc
 - Example: public class UserApiController: ControllerBase
 - A using statement is needed below:
 - Example: using Microsoft.AspNetCore.Mvc;
- Need a controller attribute placed above the class
 - Example: [ApiController]

- Need a route attribute placed above the class
 - Example: `[Route("api/UserApi")]` or `[Route("api/[Controller]")]`

3.2 What make an end point to be an end point

- Need a verb attribute place above the function of the end point
 - Example: `[HttpGet]` or `[HttpGet("{id:int}")]`

4 Items is being Looked for solutions