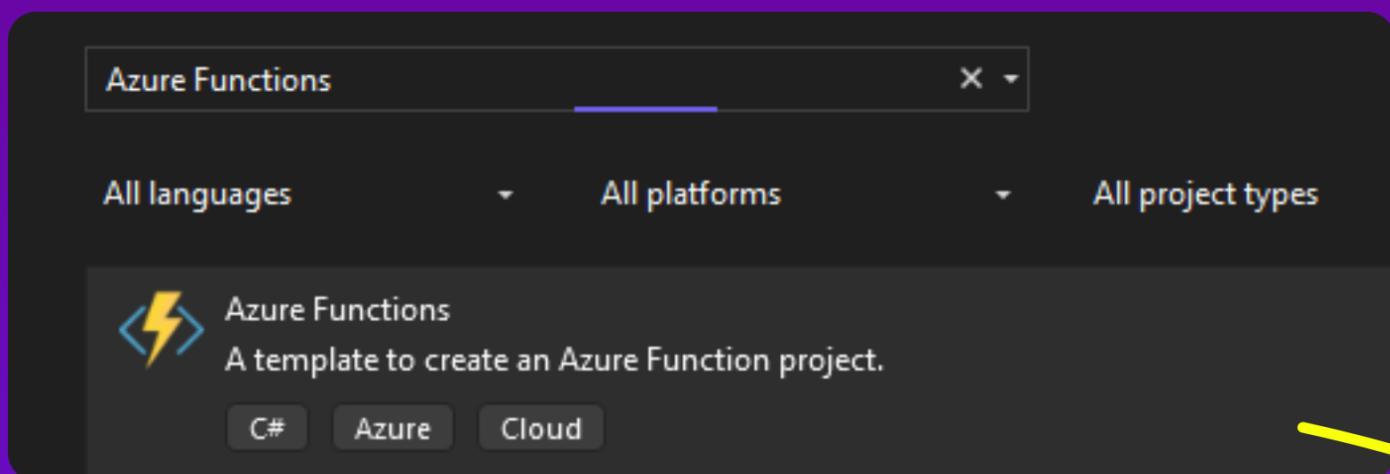


Azure Functions Basics

step by step



Creating Azure Functions Project



Search for Azure Functions project type.

A screenshot of the Azure Functions project creation wizard. At the top, it says "Azure Functions" and shows tabs for "C#", "Azure", and "Cloud". Below that, it says "Functions worker ⓘ" and ".NET 8.0 (Long Term Support)". Under "Function ⓘ", "Http trigger" is selected. There are two checkboxes: one checked for "Use Azurite for runtime storage account (AzureWebJobsStorage) ⓘ" and one unchecked for "Enable container support ⓘ". Under "Authorization level ⓘ", "Anonymous" is selected. A yellow arrow points from the text "Type of function (trigger) - there are many others, the simplest is HTTP." to the "Http trigger" button in the wizard.

Type of function (trigger) - there are many others, the simplest is HTTP.

Function Code



Explanation



```
public static class TimeFunction
{
    [FunctionName("Time")]
    public static async Task<IActionResult> Run(
        [HttpTrigger(AuthorizationLevel.Anonymous,
        "get", "post", Route = null)]
        HttpRequest req,
        ILogger log)
    {
        string locale = req.Query["locale"];
        string responseMessage;

        try
        {
            var cultureInfo = string.IsNullOrEmpty(locale) ?
                CultureInfo.InvariantCulture : new CultureInfo(locale);

            string currentTime = DateTime.Now.ToString("F", cultureInfo);

            responseMessage = $"The current time is: {currentTime}.";
        }
        catch (CultureNotFoundException)
        {
            responseMessage = "Invalid locale provided.";
        }

        return new OkObjectResult(responseMessage);
    }
}
```



Function Code



```
public static async Task<IActionResult> Run(
    [HttpTrigger(AuthorizationLevel.Anonymous, "get", "post",
    Route = null)] HttpRequest req,
    ILogger log)
{
}
```

- **public static async Task<IActionResult> Run(...):** This line declares the Run method, which is the entry point for the function.
- **[HttpTrigger(...)] HttpRequest req:** This attribute specifies that the function is triggered by an HTTP request, supporting both GET and POST methods. AuthorizationLevel.Anonymous allows anyone to access the function without authentication.
- **ILogger log:** An injected ILogger instance used for logging messages.

Function Code



```
public static async Task<IActionResult> Run( . . . )
{
    string locale = req.Query["locale"];
}
```

- **string locale = req.Query["locale"];**: This line reads the locale parameter from the **query string** in the HTTP request URL.
If locale is present in the query string (like **/api/Time?locale=en-US**), it will be stored in the locale variable.

Function Code



```
var cultureInfo = string.IsNullOrEmpty(locale) ?  
    CultureInfo.InvariantCulture : new CultureInfo(locale);  
  
string currentTime = DateTime.Now.ToString("F", cultureInfo);  
  
responseMessage = $"The current time is: {currentTime}.";
```

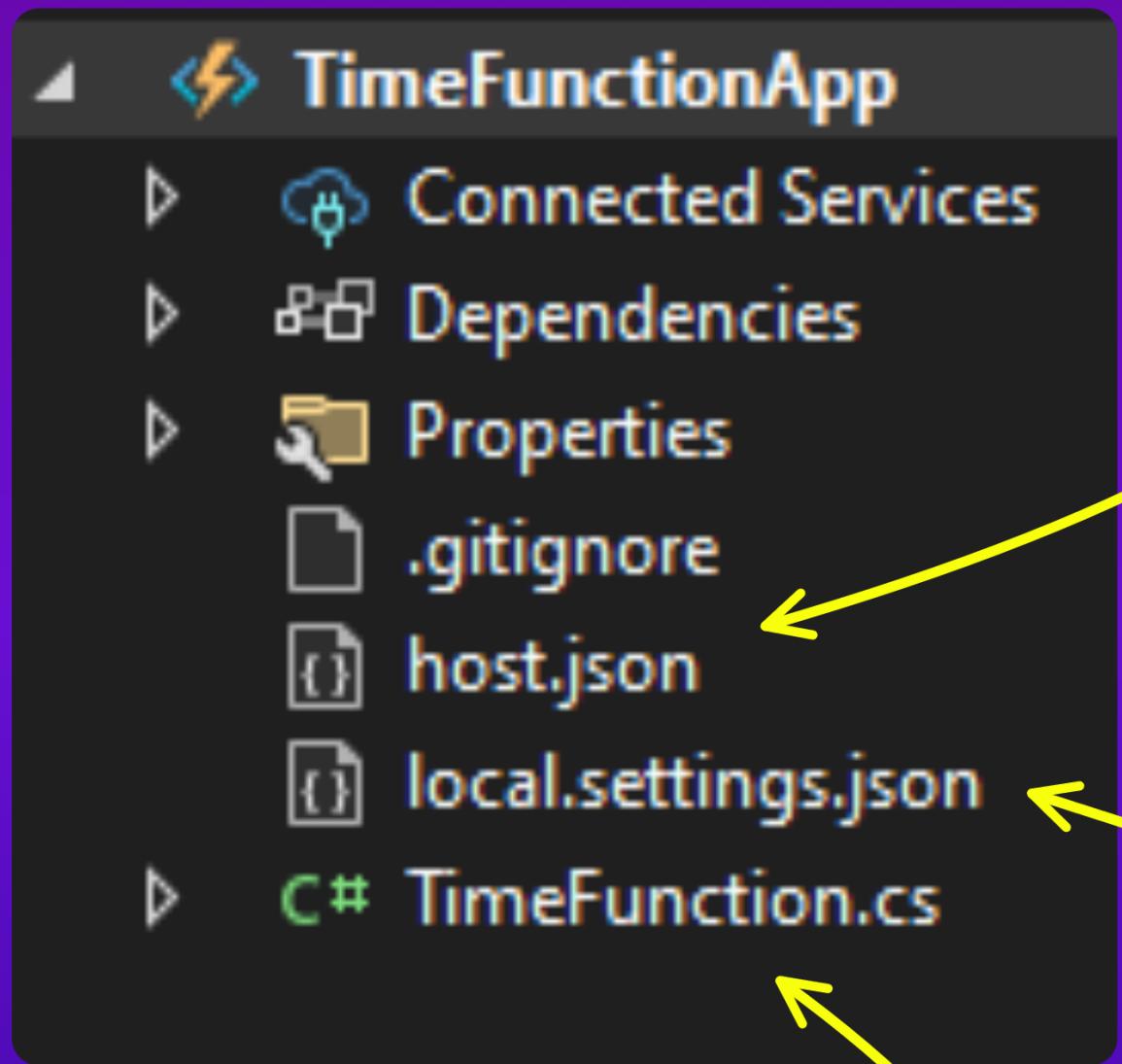
- Logic for getting time which I wrote.



```
return new OkObjectResult(responseMessage);
```

- Returns a successful HTTP 200 response with the responseMessage as the content. OkObjectResult is an MVC result class representing HTTP 200, commonly used in Azure Functions to indicate successful execution.

Project Folder Structure



Used to configure all the functions that are deployed together in the same Azure Function App

Configuration for local env

Function class



Running application

```
C:\Users\Stefan Djokic\AppData\Local\Temp\func\1\func host start
Azure Functions Core Tools
Core Tools Version:        4.0.6518 Commit hash: N/A +74ed9095fdd6c5326276aae6
Function Runtime Version: 4.35.4.23179

[2024-10-29T13:14:49.421Z] Found C:\Users\Stefan Djokic\source\repos\AzureFun
for user secrets file configuration.

Functions:

    Time: [GET,POST] http://localhost:7144/api/Time

For detailed output, run func with --verbose flag.
[2024-10-29T13:14:56.765Z] Host lock lease acquired by instance ID '00000000000000000000000000000000'
```

Endpoint to call

http://localhost:7144/api/Time?locale=en-GB

Response: The current time is: Tuesday, 29 October 2024 13:53:12.

Do you like this post?

Repost it.

