

Fri Sep 20 16:23

Exercise - Implement x NuGet Gallery | New x +

learn.microsoft.com/en-us/training/modules/build-web-api-aspnet-core/8-exercise-implement-crud

File Edit Selection View Go Run Terminal Help ls week-3-in-class-activity

EXPLORER

WEEK-3-IN-CLASS-ACTIVITY

- console-app
- screenshots
- bin
- Controllers

 - PizzaController.cs
 - WeatherForecastController...

- Models

 - Pizza.cs

- obj
- Properties
- Services

 - PizzaService.cs
 - appsettings.Development.j...
 - appsettings.json
 - ContosoPizza.http
 - Program.cs
 - WeatherForecast.cs

- web-app.csproj
- web-app.http

Program.cs Pizza.cs PizzaService.cs PizzaController.cs x ContosoPizza.http WeatherForecastController.cs sales.json .../stores sales.json ..

```
using web_app.Models;
using web_app.Services;
using Microsoft.AspNetCore.Mvc;
namespace web_app.Controllers;
[ApiController]
[Route("[controller]")]
public class PizzaController : ControllerBase
{
    public PizzaController()
    {
    }
    // GET all action
    [HttpGet]
    public ActionResult<List<Pizza>> GetAll() =>
        PizzaService.GetAll();
    // GET by Id action
    [HttpGet("{id}")]
    public ActionResult<Pizza> Get(int id)
    {
        var pizza = PizzaService.Get(id);
        if(pizza == null)
            return NotFound();
    }
}
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE PORTS

```
[forlogic@ubuntu week-3-in-class-activity]$ dotnet run
Couldn't find a project to run. Ensure a project exists in /var/home/forlogic/source/repos/comp2084-24f-13202/week-3-in-class-activity, or pass the
path to the project using --project.
[forlogic@ubuntu week-3-in-class-activity]$ cd web-app/
[forlogic@ubuntu web-app]$ dotnet run
Building...
info: Microsoft.Hosting.Lifetime[14]
      Now listening on: http://localhost:5154
info: Microsoft.Hosting.Lifetime[0]
      Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
      Hosting environment: Development
info: Microsoft.Hosting.Lifetime[0]
      Content root path: /var/home/forlogic/source/repos/comp2084-24f-13202/week-3-in-class-activity/web-app
```

OUTLINE TIMELINE SOLUTION EXPLORER

Projects: 0

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=utf-8
Date: Fri, 02 Apr 2021 23:27:37 GMT
Server: Kestrel
Transfer-Encoding: chunked
{
    "id": 3,
```

Chrome File Explorer VS Code Docker Notepad Layers Recycle Bin Dash

Fri Sep 20 16:13

Create a web API with ASP.NET Core

File Edit Selection View Go Run Terminal Help week-3-in-class-activity

EXPLORER

WEEK-3-IN-CLASS-ACTIVITY

- > console-app
- > screenshots
- > bin
- > Controllers
- PizzaController.cs
- WeatherForecastController.cs
- > Models
- Pizza.cs
- > obj
- > Properties
- > Services
- PizzaService.cs
- appsettings.Development.json
- appsettings.json
- Program.cs
- WeatherForecast.cs
- web-app.csproj
- web-app.hhtp

Program.cs Pizza.cs PizzaService.cs PizzaController.cs WeatherForecastController.cs sales.json .../stores sales.json .../204 sales.json .../old

```
7 [ApiController]
8 [Route("[controller]")]
9 1 reference
10 public class PizzaController : ControllerBase
11 {
12     0 references
13     public PizzaController()
14     {
15     }
16
17     // GET all action
18     [HttpGet]
19     0 references
20     public ActionResult<List<Pizza>> GetAll() =>
21         PizzaService.GetAll();
22
23     // GET by Id action
24     [HttpGet("{id}")]
25     0 references
26     public ActionResult<Pizza> Get(int id)
27     {
28         var pizza = PizzaService.Get(id);
29
30         if(pizza == null)
31             return NotFound();
32
33         return pizza;
34     }
35
36     // POST action
37
38     // PUT action
39
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE PORTS

Build succeeded.

- 0 Warning(s)
- 0 Error(s)

Time Elapsed 00:00:04.12

- [forlogic@ubuntu web-app]\$ dotnet build
- MSBuild version 17.8.5+bb265ef37 for .NET
- Determining projects to restore...
- All projects are up-to-date for restore.
- web-app -> /var/home/forlogic/source/repos/comp2084-24f-13202/week-3-in-class-activity/web-app/bin/Debug/net8.0/web-app.dll

Build succeeded.

- 0 Warning(s)
- 0 Error(s)

Time Elapsed 00:00:02.93

- [forlogic@ubuntu web-app]\$

OUTLINE TIMELINE SOLUTION EXPLORER Projects: 0

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Fri Sep 20 16:04

Exercise - Add a data x NuGet Gallery | New x +

learn.microsoft.com/en-us/training/modules/build-web-api-aspnet-core/5-exercise-add-data-store

File Edit Selection View Go Run Terminal Help

Program.cs Pizza.cs PizzaService.cs WeatherForecastController.cs sales.json .../stores sales.json .../204 sales.json .../203 sales.json .../2

EXPLORER

WEEK-3-IN-CLASS-ACTIVITY

- console-app
- screenshots
- web-app
 - bin
 - Controllers
 - WeatherForecastController.cs
 - Models
 - Pizza.cs
 - Properties
 - Services
 - PizzaService.cs
- obj
- Properties
- Services
 - PizzaService.cs

appsettings.Development.json
appsettings.json
Program.cs
WeatherForecast.cs
web-app.csproj
web-app.http

```
public static class PizzaService
{
    static List<Pizza> Pizzas { get; }

    public static List<Pizza> GetAll() => Pizzas;

    public static Pizza? Get(int id) => Pizzas.FirstOrDefault(p => p.Id == id);

    public static void Add(Pizza pizza)
    {
        pizza.Id = nextId++;
        Pizzas.Add(pizza);
    }

    public static void Delete(int id)
    {
        var pizza = Get(id);
        if(pizza is null)
            return;

        Pizzas.Remove(pizza);
    }

    public static void Update(Pizza pizza)
    {
        var index = Pizzas.FindIndex(p => p.Id == pizza.Id);
        if(index == -1)
            return;

        Pizzas[index] = pizza;
    }
}
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE PORTS

Determining projects to restore...
Restored /var/home/forlogic/source/repos/comp2084-24f-13202/week-3-in-class-activity/web-app/web-app.csproj (in 2.19 sec).
Restore succeeded.

[forlogic@ubuntu web-app]\$ dotnet build
MSBuild version 17.8.5+bd265ef37 for .NET
Determining projects to restore...
All projects are up-to-date for restore.
web-app -> /var/home/forlogic/source/repos/comp2084-24f-13202/week-3-in-class-activity/web-app/bin/Debug/net8.0/web-app.dll

Build succeeded.
0 Warning(s)
0 Error(s)

Time Elapsed 00:00:04.12

[forlogic@ubuntu web-app]\$

Having an issue? We can help!

For issues related to this module, explore existing questions using the #azure training tag or Ask a question on Microsoft Q&A.

Outline Timeline Solution Explorer Projects: 0

Ln 5, Col 33 Spaces: 4 UTF-8 LF () C# 🔍 🔍

Fri Sep 20 16:02

Exercise - Create a w NuGet Gallery | New... x + learn.microsoft.com/en-us/training/modules/build-web-api-aspnet-core/3-exercise-create-web-api doc crypto mining nft games canada english dev pc cambridge prayer texting rpa healthc... League of It... Todos os ho... GitHub - mr... AutoHotkey... Mundo Sem... Choose a St... NVGTN | Off... WDW Travel... ELTIS O modelo d... Free Facebo... Student Das... x

File Edit Selection View Go Run Terminal Help week-3-in-class-activity

EXPLORER

WEEK-3-IN-CLASS-ACTIVITY

console-app screenshots web-app

bin Controllers obj Properties appsettings.Development.json appsettings.json Program.cs WeatherForecast.cs web-app.csproj web-app.htm

Program.cs

```
166
167 // exercise 5
168
169 using Newtonsoft.Json;
170
171 var currentDirectory = Directory.GetCurrentDirectory();
172 var storesDirectory = Path.Combine(currentDirectory, "stores");
173
174 var salesTotalDir = Path.Combine(currentDirectory, "salesTotalDir");
175 Directory.CreateDirectory(salesTotalDir);
176
177 var salesFiles = FindFiles(storesDirectory);
178
179 var salesTotal = CalculateSalesTotal(salesFiles);
180
181 File.AppendAllText(Path.Combine(salesTotalDir, "totals.txt"), $"{salesTotal}{Environment.NewLine}");
182
183 IEnumerable<string> FindFiles(string folderName)
184 {
185     List<string> salesFiles = new List<string>();
186
187     var foundFiles = Directory.EnumerateFiles(folderName, "", SearchOption.AllDirectories);
188
189     foreach (var file in foundFiles)
190     {
191         var extension = Path.GetExtension(file);
192         if (extension == ".json")
193         {
194             salesFiles.Add(file);
195         }
196     }
197 }
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE PORTS

Determining projects to restore...
Restored /var/home/forlogic/source/repos/comp2084-24f-13202/week-3-in-class-activity/web-app/web-app.csproj (in 2.19 sec).
Restore succeeded.

Build succeeded.
0 Warning(s)
0 Error(s)

Time Elapsed 00:00:04.12

https://localhost:{PORT}/> ls
.
[]
WeatherForecast [GET]

NET CLI

4. Go to the WeatherForecast endpoint by running the following command:

Fri Sep 20 16:00

Create a web API with ASP.NET Core controllers

1200 XP

41 min • Module • 9 Units

Feedback

Beginner Developer Student .NET ASP.NET Core

Create a RESTful service with ASP.NET Core controllers that supports create, read, update, delete (CRUD) operations.

Learning objectives

In this module, you'll:

- Create a web API project with ASP.NET Core controllers.
- Create an in-memory database for persisting products.
- Add support for CRUD operations.
- Test web API action methods from the command shell.

Add

Prerequisites

- Ability to write C# at the beginner level
- Local installations of the .NET SDK and Visual Studio Code
- C# Dev Kit extension for Visual Studio Code
- REST Client extension for Visual Studio Code
- Experience with using the command line

This module is part of these learning paths

Build .NET applications with C#
Build web apps with ASP.NET Core for beginners

| | | |
|--------------------------------------|--------|---|
| Introduction | 1 min | ✓ |
| REST in ASP.NET Core | 3 min | ✓ |
| Exercise - Create a web API project | 8 min | ✓ |
| ASP.NET Core Web API Controllers | 4 min | ✓ |
| Exercise - Add a data store | 4 min | ✓ |
| Exercise - Add a controller | 5 min | ✓ |
| CRUD actions in ASP.NET Core | 5 min | ✓ |
| Exercise - Implement CRUD operations | 10 min | ✓ |

Google Chrome Microsoft Edge File Explorer Visual Studio Code GitHub AutoHotkey Mundo Sem... Choose a St... NVGTN | Off... WDW Travel... ELTIS O modelo d... Free Facebo... Student Das... 100%

Fri Sep 20 15:59

Exercise - Read and ... NuGet Gallery | New ... + learn.microsoft.com/en-us/training/modules/dotnet-files/9-exercise-read-write-files doc crypto mining nft games canada english dev pc cambridge prayer texting rpa healthc... League of It... Todos os ho... GitHub - mr... AutoHotkey... Mundo Sem... Choose a St... NVGTN | Off... WDW Travel... ELTIS O modelo d... Free Facebo... Student Das... dotnet run

File Edit Selection View Go Run Terminal Help ↶ ↷ week-3-in-class-activity

EXPLORER WEEK-3-IN-CLASS-ACTIVITY

- src
- bin
- obj
- salesTotalDir
 - totals.txt
- stores
 - 201
 - sales.json
 - 202
 - sales.json
 - 203
 - sales.json
 - 204
 - sales.json

Program.cs training.csproj

```
src > Program.cs < sales.json .../stores sales.json .../204 sales.json .../203 sales.json .../202 sales.json .../201
```

166
167 // exercise 5
168
169 using Newtonsoft.Json;
170
171 var currentDirectory = Directory.GetCurrentDirectory();
172 var storesDirectory = Path.Combine(currentDirectory, "stores");
173
174 var salesTotalDir = Path.Combine(currentDirectory, "salesTotalDir");
175 Directory.CreateDirectory(salesTotalDir);
176
177 var salesFiles = FindFiles(storesDirectory);
178
179 var salesTotal = CalculateSalesTotal(salesFiles);
180
181 File.AppendAllText(Path.Combine(salesTotalDir, "totals.txt"), \$"{salesTotal}{Environment.NewLine}");
182
183 IEnumerable<string> FindFiles(string folderName)
184 {
185 List<string> salesFiles = new List<string>();
186
187 var foundFiles = Directory.EnumerateFiles(folderName, "*", SearchOption.AllDirectories);
188
189 foreach (var file in foundFiles)
190 {
191 var extension = Path.GetExtension(file);
192 if (extension == ".json")
193 {
194 salesFiles.Add(file);
195 }
196 }
197 }

PROGRAMS OUTPUT TERMINAL DEBUG CONSOLE PORTS

[forlogic@ubuntu src]\$ dotnet run
[forlogic@ubuntu src]\$

PROBLEMS OUTLINE SOLUTION EXPLORER Projects: 0

```
return salesTotal;
}
record SalesData (double Total);
```

Ln 111, Col 42 Spaces: 4 UTF-8 with BOM LF () C# 🔍 🔒

Chrome Edge File Explorer VS Code Terminal Taskbar

Fri Sep 20 15:54

Exercise - Create file + learn.microsoft.com/en-us/training/modules/dotnet-files/7-exercise-create-files-directories

File Edit Selection View Go Run Terminal Help week-3-in-class-activity

EXPLORER

WEEK-3-IN-CLASS-ACTIVITY

- screenshots
- src
 - bin
 - obj
 - stores
 - 201
 - sales.json
 - 202
 - sales.json
 - 203
 - sales.json
 - 204
 - sales.json
- Program.cs
- training.csproj

Program.cs

```
src > Program.cs
1  //////////////////////////////////////////////////////////////////
2  ////////////////////////////////////////////////////////////////// exercise 1
3
4  ////////////////////////////////////////////////////////////////// exercise 4
5
6  var currentDirectory = Directory.GetCurrentDirectory();
7  var storesDirectory = Path.Combine(currentDirectory, "stores");
8
9  var salesFiles = FindFiles(storesDirectory);
10
11 foreach (var file in salesFiles)
12 {
13     Console.WriteLine(file);
14 }
15
16 IEnumerable<string> FindFiles(string folderName)
17 {
18     List<string> salesFiles = new List<string>();
19
20     var foundFiles = Directory.EnumerateFiles(folderName, "*", SearchOption.AllDirectories);
21
22     foreach (var file in foundFiles)
23     {
24         var extension = Path.GetExtension(file);
25         if (extension == ".json")
26         {
27             salesFiles.Add(file);
28         }
29     }
30
31     return salesFiles;
32 }
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE PORTS

● [forlogic@ubuntu src]\$ dotnet run

```
/var/home/forlogic/source/repos/comp2084-24f-13202/week-3-in-class-activity/src/stores/sales.json
/var/home/forlogic/source/repos/comp2084-24f-13202/week-3-in-class-activity/src/stores/201/sales.json
/var/home/forlogic/source/repos/comp2084-24f-13202/week-3-in-class-activity/src/stores/202/sales.json
/var/home/forlogic/source/repos/comp2084-24f-13202/week-3-in-class-activity/src/stores/203/sales.json
/var/home/forlogic/source/repos/comp2084-24f-13202/week-3-in-class-activity/src/stores/204/sales.json
```

● [forlogic@ubuntu src]\$

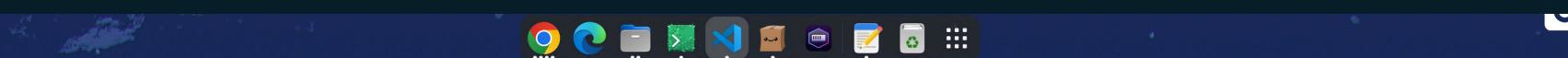
OUTLINE

SOLUTION EXPLORER

Projects: 0

Ln 105, Col 2 Spaces: 4 UTF-8 with BOM LF () C# ⌂ ⌂

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Fri Sep 20 15:52

Exercise - Work with + learn.microsoft.com/en-us/training/modules/dotnet-files/5-exercise-paths

File Edit Selection View Go Run Terminal Help week-3-in-class-activity

EXPLORER WEEK-3-IN-CLASS-ACTIVITY

- screenshots
- src
 - bin
 - obj
 - stores
 - 201
 - sales.json
 - 202
 - sales.json
 - 203
 - sales.json
 - 204
 - sales.json
- Program.cs
- training.csproj

4. Press **Ctrl+S** (or **Cmd+S** macOS) to save the file.

5. Run the program from the command line.

src > Program.cs

```
1 // exercise 1
46
47 // exercise 3
48
49 var currentDirectory = Directory.GetCurrentDirectory();
50 var storesDirectory = Path.Combine(currentDirectory, "stores");
51
52 var salesFiles = FindFiles(storesDirectory);
53
54 foreach (var file in salesFiles)
55 {
56     Console.WriteLine(file);
57 }
58
59 IEnumerable<string> FindFiles(string folderName)
60 {
61     List<string> salesFiles = new List<string>();
62
63     var foundFiles = Directory.EnumerateFiles(folderName, "*", SearchOption.AllDirectories);
64
65     foreach (var file in foundFiles)
66     {
67         var extension = Path.GetExtension(file);
68         if (extension == ".json")
69         {
70             salesFiles.Add(file);
71         }
72     }
73
74     return salesFiles;
75 }
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE PORTS

[forlogic@ubuntu src]\$ dotnet run

```
/var/home/forlogic/source/repos/comp2084-24f-13202/week-3-in-class-activity/src/stores/sales.json
/var/home/forlogic/source/repos/comp2084-24f-13202/week-3-in-class-activity/src/stores/201/sales.json
/var/home/forlogic/source/repos/comp2084-24f-13202/week-3-in-class-activity/src/stores/202/sales.json
/var/home/forlogic/source/repos/comp2084-24f-13202/week-3-in-class-activity/src/stores/203/sales.json
/var/home/forlogic/source/repos/comp2084-24f-13202/week-3-in-class-activity/src/stores/204/sales.json
```

OUTLINE SOLUTION EXPLORER Projects: 0

Bash dotnet run

The output now shows all json files in each of the store ID directories.

C# Python Java Go JavaScript Node.js C++ CMake Dockerfile Dockerfile.Dockerfile

Fri Sep 20 15:49

Work with files and d... + learn.microsoft.com/en-us/training/modules/dotnet-files/

doc crypto mining nft games canada english dev pc cambridge prayer texting rpa health... League of It... Todos os ho... GitHub - mr... AutoHotkey... Mundo Sem... Choose a St... NVGTN | Off... WDW Travel... ELTIS O modelo d... Free Facebo... Student Das... >

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LEVEL 5 1875 / 7699 XP

Learn / Training / Browse / Build .NET applications with C# /

Work with files and directories in a .NET app

37 min • Module • 10 Units

Feedback

Beginner Developer .NET

Build an app that manipulates files and directories with C# and .NET.

Learning objectives

By the end of this module, you'll be able to:

- Work with directories.
- Create and delete files.
- Read from files.
- Write to files.
- Parse data in files.

Add

Prerequisites

- Experience writing C# at the beginner level
- Familiarity with basic programming constructs such as loops and "if" statements
- Local installations of .NET SDK
- Visual Studio Code
- C# extension for Visual Studio Code

This module is part of these learning paths

Build .NET applications with C#

| | | |
|---|-------|---|
| Introduction | 1 min | ✓ |
| Work with the file system | 3 min | ✓ |
| Exercise - Work with the file system | 5 min | ✓ |
| Work with file paths in .NET | 5 min | ✓ |
| Exercise - Work with paths | 6 min | ✓ |
| Create files and directories | 2 min | ✓ |
| Exercise - Create files and directories | 4 min | ✓ |
| Read and write to files | 2 min | ✓ |
| Exercise - Read and write to files | 2 min | ✓ |

Google Chrome Microsoft Edge Microsoft Word Microsoft Excel Microsoft Powerpoint Microsoft OneDrive Microsoft Word Microsoft Excel Microsoft Powerpoint Microsoft OneDrive

Fri Sep 20 15:48

learn.microsoft.com/en-us/training/modules/dotnet-debug/

File Edit Selection View Go Run Terminal Help week-3-in-class-activity

EXPLORER WEEK-3-IN-CLASS-ACTIVITY

- screenshots
- src
- bin
- obj
- Program.cs
- training.csproj

Program.cs

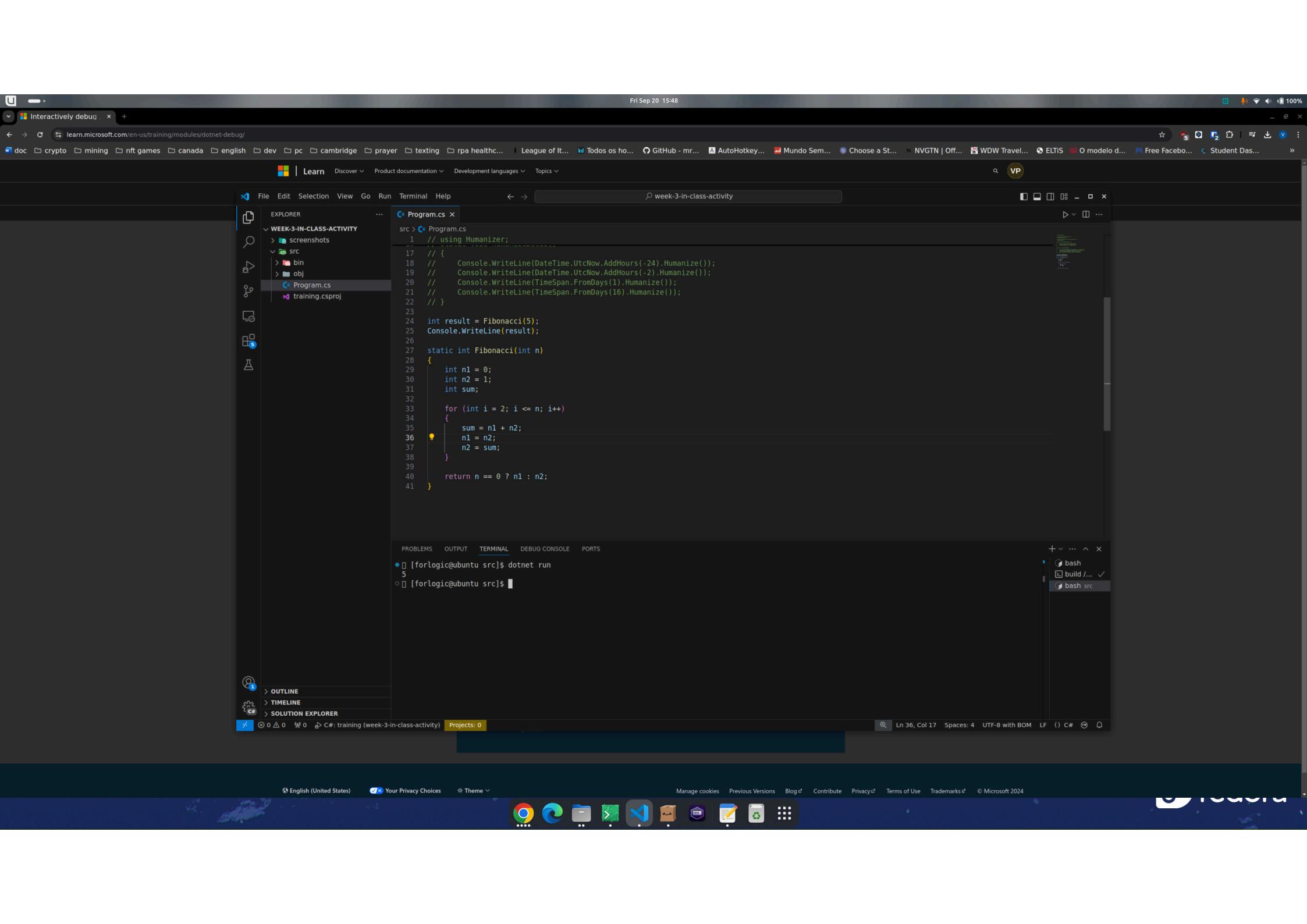
```
src > C# Program.cs
1 // using Humanizer;
2 ...
3 // {
4 //     Console.WriteLine(DateTime.UtcNow.AddHours(-24).Humanize());
5 //     Console.WriteLine(DateTime.UtcNow.AddHours(-2).Humanize());
6 //     Console.WriteLine(TimeSpan.FromDays(1).Humanize());
7 //     Console.WriteLine(TimeSpan.FromDays(16).Humanize());
8 //
9
10 int result = Fibonacci(5);
11 Console.WriteLine(result);
12
13 static int Fibonacci(int n)
14 {
15     int n1 = 0;
16     int n2 = 1;
17     int sum;
18
19     for (int i = 2; i <= n; i++)
20     {
21         sum = n1 + n2;
22         n1 = n2;
23         n2 = sum;
24     }
25
26     return n == 0 ? n1 : n2;
27 }
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE PORTS

[forlogic@ubuntu src]\$ dotnet run
5
[forlogic@ubuntu src]\$

OUTLINE
TIMELINE
SOLUTION EXPLORER Projects: 0

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learn.microsoft.com/en-us/training/modules/dotnet-debug/

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Learn / Training / Browse / Build .NET applications with C# /

Interactively debug .NET apps with the Visual Studio Code debugger

43 min • Module • 8 Units

Feedback

Beginner Developer Student .NET

Learn how to efficiently debug your .NET app by using Visual Studio Code to fix your bugs quickly.

Learning objectives

By the end of this module, you'll be able to:

- Use the Visual Studio Code debugger with a .NET program.
- Create breakpoints and run your code step by step to find issues.
- Inspect your program state at any execution step.

Add

Prerequisites

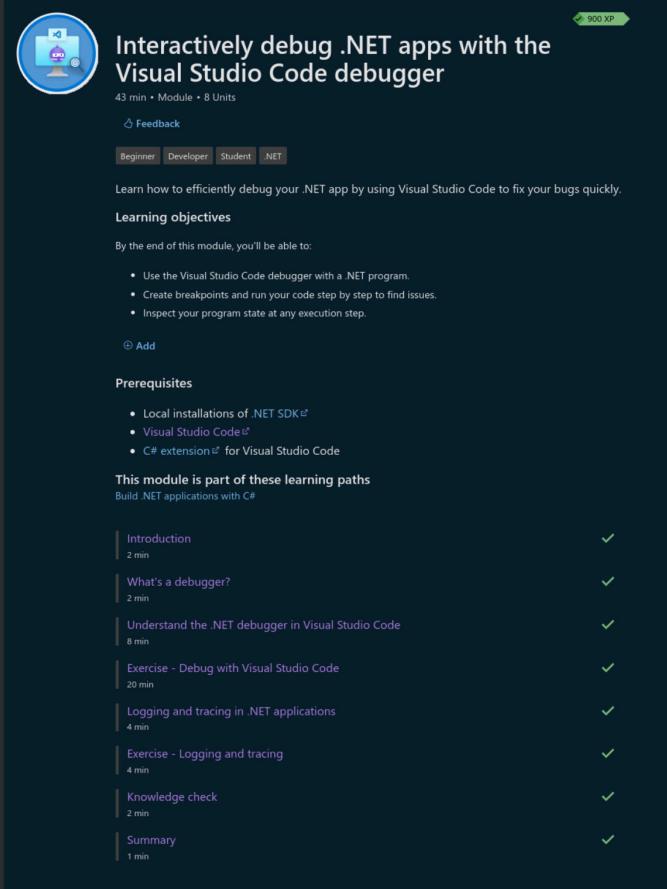
- Local installations of .NET SDK
- Visual Studio Code
- C# extension for Visual Studio Code

This module is part of these learning paths

Build .NET applications with C#

| | | |
|--|--------|---|
| Introduction | 2 min | ✓ |
| What's a debugger? | 2 min | ✓ |
| Understand the .NET debugger in Visual Studio Code | 8 min | ✓ |
| Exercise - Debug with Visual Studio Code | 20 min | ✓ |
| Logging and tracing in .NET applications | 4 min | ✓ |
| Exercise - Logging and tracing | 4 min | ✓ |
| Knowledge check | 2 min | ✓ |
| Summary | 1 min | ✓ |

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Fri Sep 20 15:47

Create a new .NET project

learn.microsoft.com/en-us/training/modules/dotnet-dependencies/

File Edit Selection View Go Run Terminal Help ↶ ↷ week-3-in-class-activity

EXPLORER WEEK-3-IN-CLASS-ACTIVITY

- src
- bin
- obj
- Program.cs
- training.csproj

Program.cs

```
src > C# Program.cs
1 using Humanizer;
2
3 Console.WriteLine("Quantities:");
4 HumanizeQuantities();
5
6 Console.WriteLine("\nDate/Time Manipulation:");
7 HumanizeDates();
8
9 static void HumanizeQuantities()
10 {
11     Console.WriteLine("case".ToQuantity(0));
12     Console.WriteLine("case".ToQuantity(1));
13     Console.WriteLine("case".ToQuantity(5));
14 }
15
16 static void HumanizeDates()
17 {
18     Console.WriteLine(DateTime.UtcNow.AddHours(-24).Humanize());
19     Console.WriteLine(DateTime.UtcNow.AddHours(-2).Humanize());
20     Console.WriteLine(TimeSpan.FromDays(1).Humanize());
21     Console.WriteLine(TimeSpan.FromDays(16).Humanize());
22 }
```

TERMINAL

```
[forlogic@ubuntu src]$ dotnet run
Quantities:
0 cases
1 case
5 cases

Date/Time Manipulation:
yesterday
2 hours ago
1 day
2 weeks
[forlogic@ubuntu src]$
```

OUTLINE

SOLUTION EXPLORER

Projects: 0

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Fri Sep 20 15:47

Create a new .NET project and work with dependencies/

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LEVEL 5 1875 / 7699 XP

Create a new .NET project and work with dependencies

18 min • Module • 7 Units

Feedback

Beginner Developer Student .NET

Use dependencies from the NuGet registry to develop .NET applications faster. Learn how to manage dependencies for your project.

Learning objectives

After you complete this module, you'll be able to:

- Initialize .NET projects.
- Add packages to and remove packages from a .NET project.
- Manage your package dependencies and update them in a predictable way.

Save

Prerequisites

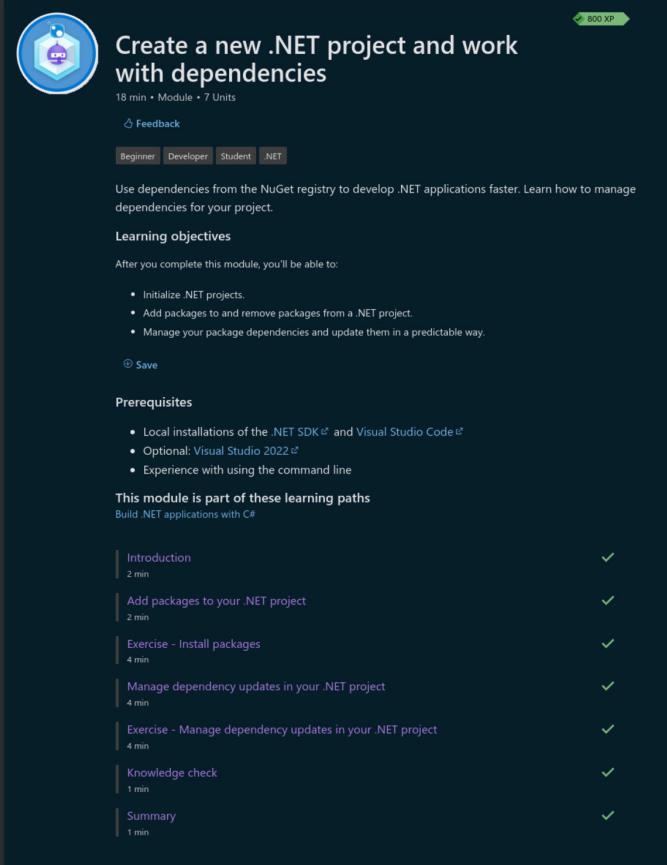
- Local installations of the .NET SDK and Visual Studio Code
- Optional: Visual Studio 2022
- Experience with using the command line

This module is part of these learning paths

Build .NET applications with C#

| | | |
|---|-------|---|
| Introduction | 2 min | ✓ |
| Add packages to your .NET project | 2 min | ✓ |
| Exercise - Install packages | 4 min | ✓ |
| Manage dependency updates in your .NET project | 4 min | ✓ |
| Exercise - Manage dependency updates in your .NET project | 4 min | ✓ |
| Knowledge check | 1 min | ✓ |
| Summary | 1 min | ✓ |

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Introduction to .NET

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Introduction to .NET

28 min • Module • 7 Units

Feedback

Beginner Developer .NET

Start learning about .NET. Understand what .NET is and how it works, and quickly build a small app in a web-based .NET environment.

Learning objectives

By the end of this module, you'll be able to:

- Describe the major parts of .NET and its ecosystem.
- Explain how .NET languages and the .NET compiler, runtime, and libraries work together to produce a running application.
- Choose when it makes sense to use .NET to build your applications.

Add

Prerequisites

- You should have already written your first lines of C# code.
- You should be able to recognize how to use `Console.WriteLine()` to send text to an output window.
- You should be able to recognize minor issues in your code and to fix them.

This module is part of these learning paths

Build .NET applications with C#

| | | |
|--|-------|---|
| Introduction | 1 min | ✓ |
| What is .NET? | 7 min | ✓ |
| How to use .NET | 6 min | ✓ |
| Build your first app by using Try .NET | 6 min | ✓ |
| When to use .NET | 4 min | ✓ |
| Knowledge check | 3 min | ✓ |
| Summary | 1 min | ✓ |

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Write your first C# code

27 min • Module • 7 Units

Feedback

Beginner Developer .NET

Get started by writing code examples to learn the basics of the C# syntax.

Learning objectives

After you complete this module, you'll be able to:

- Write your first lines of C# code
- Use two different techniques to print a message to a text console
- Diagnose errors when you type code incorrectly
- Identify different C# syntax elements like operators, classes, and methods

Add

Prerequisites

None

This module is part of these learning paths

Build .NET applications with C#
Build web apps with ASP.NET Core for beginners
Write your first code using C# (Get started with C#, Part 1)

| | | |
|----------------------------------|-------|---|
| Introduction | 3 min | ✓ |
| Exercise - Write your first code | 6 min | ✓ |
| Learn how it works | 6 min | ✓ |
| Complete the challenge | 5 min | ✓ |
| Review the solution | 3 min | ✓ |
| Knowledge check | 3 min | ✓ |
| Summary | 1 min | ✓ |

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