



# BridgeLabz

Employability Delivered

## Visual Studio IDE

# System Configuration Requirement

- Windows 7 SP1, Windows 8.1, Windows 10
- min 4 GB of RAM ( Recommended 8GB of RAM)
- Hard disk space - free 20 - 50 GB

# Download and installation

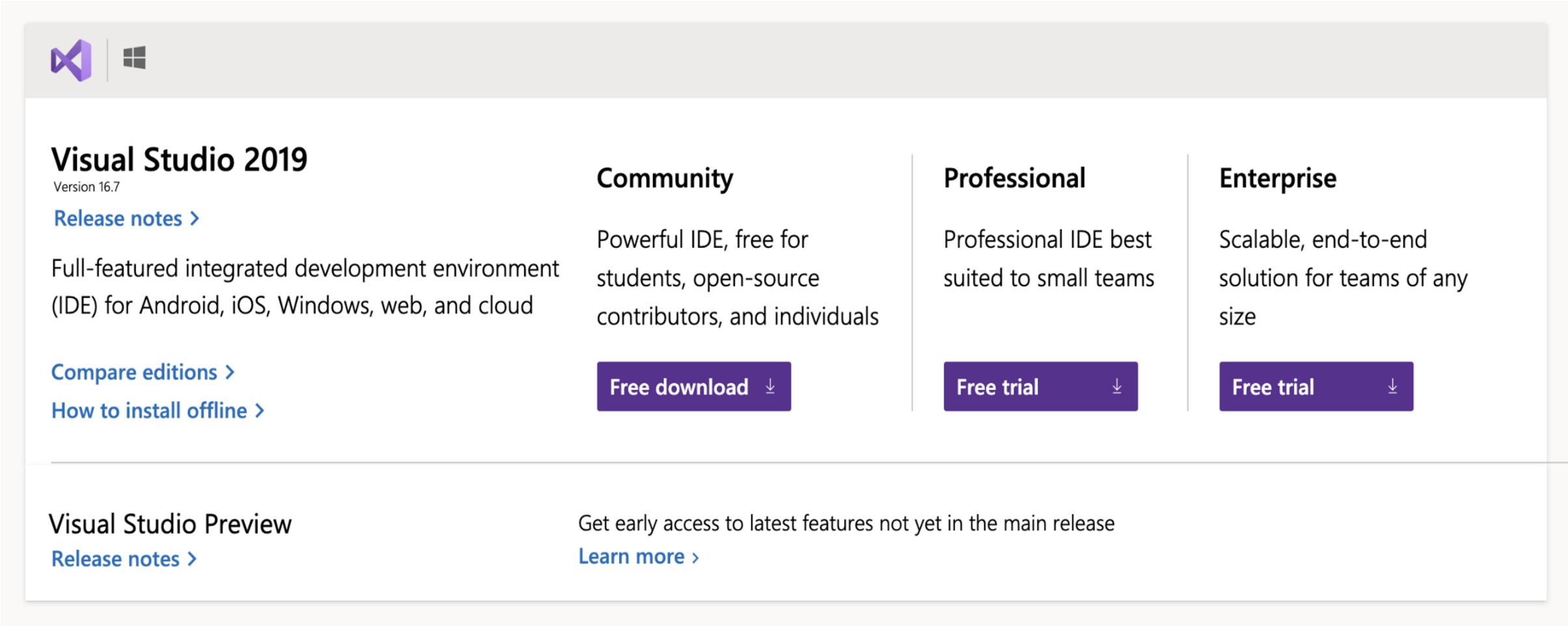
- Download Visual Studio 2019 Community edition. from below link

<https://visualstudio.microsoft.com/downloads/>

- Double click vs\_community.exe (Which is downloaded)
- If you receive a User Account Control notice, choose Yes.
- VS 2019 Commands Shortcuts -

<https://docs.microsoft.com/en-us/visualstudio/ide/default-keyboard-shortcuts-in-visual-studio?view=vs-2019>

# Download VS 2019 Community Edition



The screenshot shows the Microsoft Visual Studio 2019 download page. At the top left is the Visual Studio logo and the Windows logo. Below it, the title "Visual Studio 2019" is displayed along with "Version 16.7". There are links for "Release notes >" and "Compare editions >". A section for "How to install offline >" is also present. The main content area is divided into three columns: "Community", "Professional", and "Enterprise". Each column contains a brief description of the edition's features and a purple "Free download" or "Free trial" button. At the bottom, there is a section for "Visual Studio Preview" with a link to "Release notes >" and a note about getting early access to latest features.

| Community  | Professional                                | Enterprise  |
|--|---|---|
| Powerful IDE, free for students, open-source contributors, and individuals | Professional IDE best suited to small teams | Scalable, end-to-end solution for teams of any size |
| <a href="#">Free download</a>  | <a href="#">Free trial</a>                  | <a href="#">Free trial</a>                          |

**Visual Studio Preview**  
[Release notes >](#)

Get early access to latest features not yet in the main release  
[Learn more >](#)

# Download and installation

Pop up will occur, Choose Continue.

X

## Visual Studio Installer

Before you get started, we need to set up a few things so that you can configure your installation.

To learn more about privacy, see the [Microsoft Privacy Statement](#).  
By continuing, you agree to the [Microsoft Software License Terms](#).

**Continue**

# Choose Workloads

Installing — Visual Studio Community 2019

**Workloads**   **Individual components**   **Language packs**   **Installation locations**

**Web & Cloud (4)**

- ASP.NET and web development**  
Build web applications using ASP.NET Core, ASP.NET, HTML/JavaScript, and Containers including Docker support.
- Azure development**  
Azure SDKs, tools, and projects for developing cloud apps and creating resources using .NET Core and .NET...
- Python development**  
Editing, debugging, interactive development and source control for Python.
- Node.js development**  
Build scalable network applications using Node.js, an asynchronous event-driven JavaScript runtime.

**Desktop & Mobile (5)**

- .NET desktop development**  
Build WPF, Windows Forms, and console applications using C#, Visual Basic, and F# with .NET Core and .NET...
- Desktop development with C++**  
Build modern C++ apps for Windows using tools of your choice, including MSVC, Clang, CMake, or MSBuild.
- Universal Windows Platform development**  
Create applications for the Universal Windows Platform with C#, VB, or optionally C++.
- Mobile development with .NET**  
Build cross-platform applications for iOS, Android or Windows using Xamarin.

**Location**  
C:\Program Files (x86)\Microsoft Visual Studio\2019\Community [Change...](#)

**Installation details**

➤ Visual Studio core editor  
 ➤ **ASP.NET and web development** **Included**  
     ✓ .NET Core development tools  
     ✓ .NET Framework 4.7.2 development tools  
     ✓ ASP.NET and web development tools  
     ✓ IntelliCode  
**Optional**  
     ✓ .NET Framework 4 – 4.6 development tools  
     ✓ .NET Core 2.1 LTS Runtime  
     ✓ Cloud tools for web development  
     ✓ .NET profiling tools  
     ✓ Entity Framework 6 tools  
     ✓ Advanced ASP.NET features  
     ✓ Developer Analytics tools  
     ✓ Web Deploy  
     ✓ Live Share  
     □ Windows Communication Foundation  
     □ .NET Framework 4.6.1 development tools  
     □ .NET Framework 4.6.2 development tools

|                      |         |
|----------------------|---------|
| System drive (C)     | 4.77 GB |
| Other drives         | 1.31 GB |
| Total space required | 6.08 GB |

[Install while downloading](#)

By continuing, you agree to the [license](#) for the Visual Studio edition you selected. We also offer the ability to download other software with Visual Studio. This software is licensed separately, as set out in the [3rd Party Notices](#) or in its accompanying license. By continuing, you also agree to those licenses.

**Select Asp.net and web development**

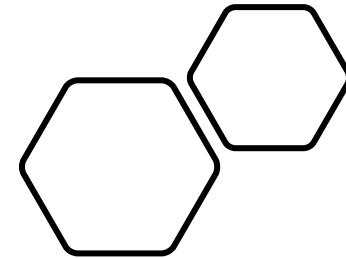
**Once selected with workload please click on install.**

# Start Development

1. After Visual Studio installation is complete, choose the Launch button to get started developing with Visual Studio.
2. On the start window, choose Create a new project.
3. In the search box, enter the type of app you want to create to see a list of available templates.
4. Visual Studio opens your new project, and you're ready to code!

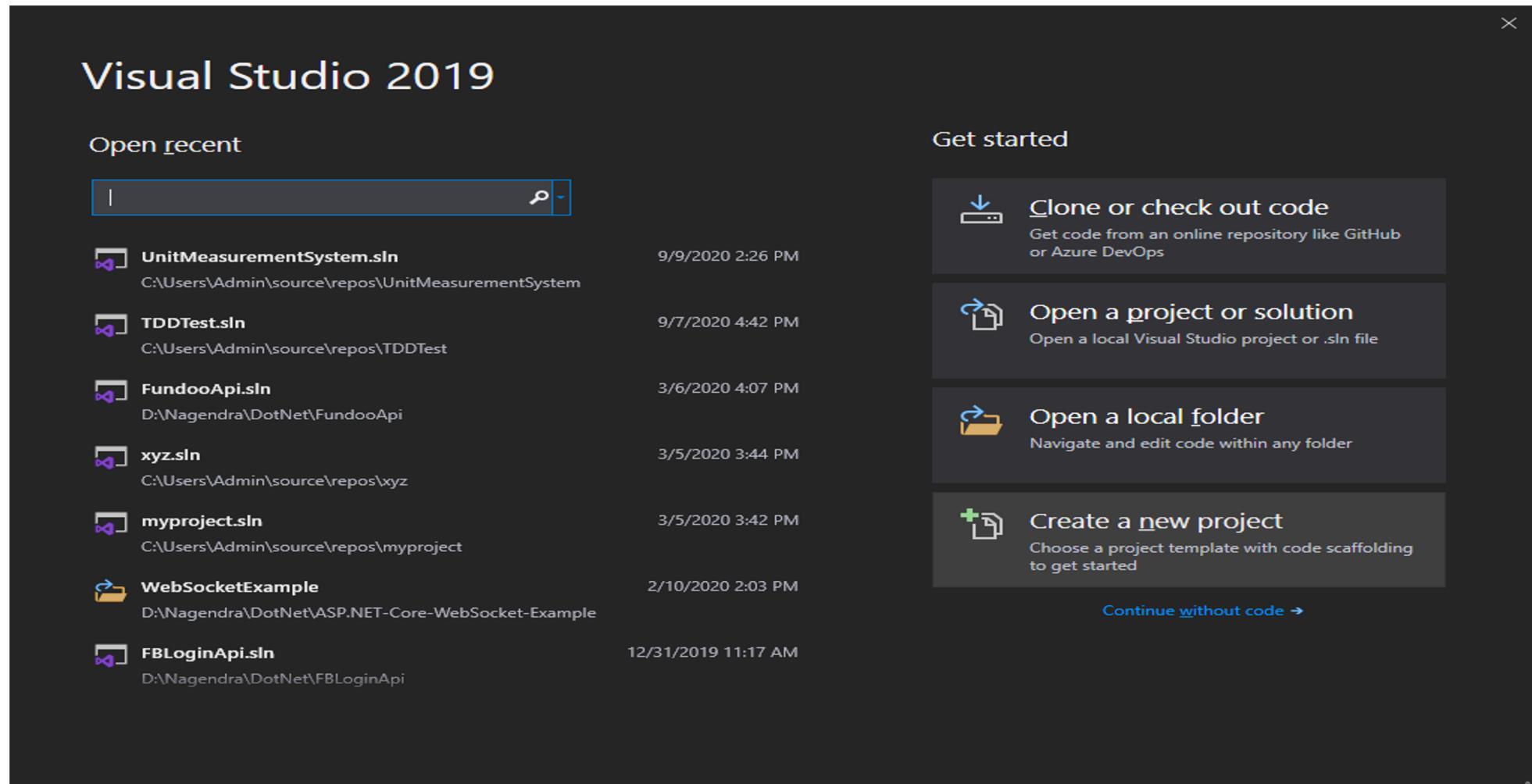
# Visual Studio

## Get Started



Create your first  
C# HelloWorld  
Application

# Create New C# Project



# Create New C# Project

Create a new project

Recent project templates

- NUnit Test Project (.NET Core) C#
- Class Library (.NET Standard) C#
- Console App (.NET Core) C#
- ASP.NET Core Web Application C#
- Class Library (.NET Standard) F#

console

C# All Platforms Service

Console App (.NET Core)  
A project for creating a command-line application that can run on .NET Core on Windows, Linux and MacOS.  
C# Linux macOS Windows Console

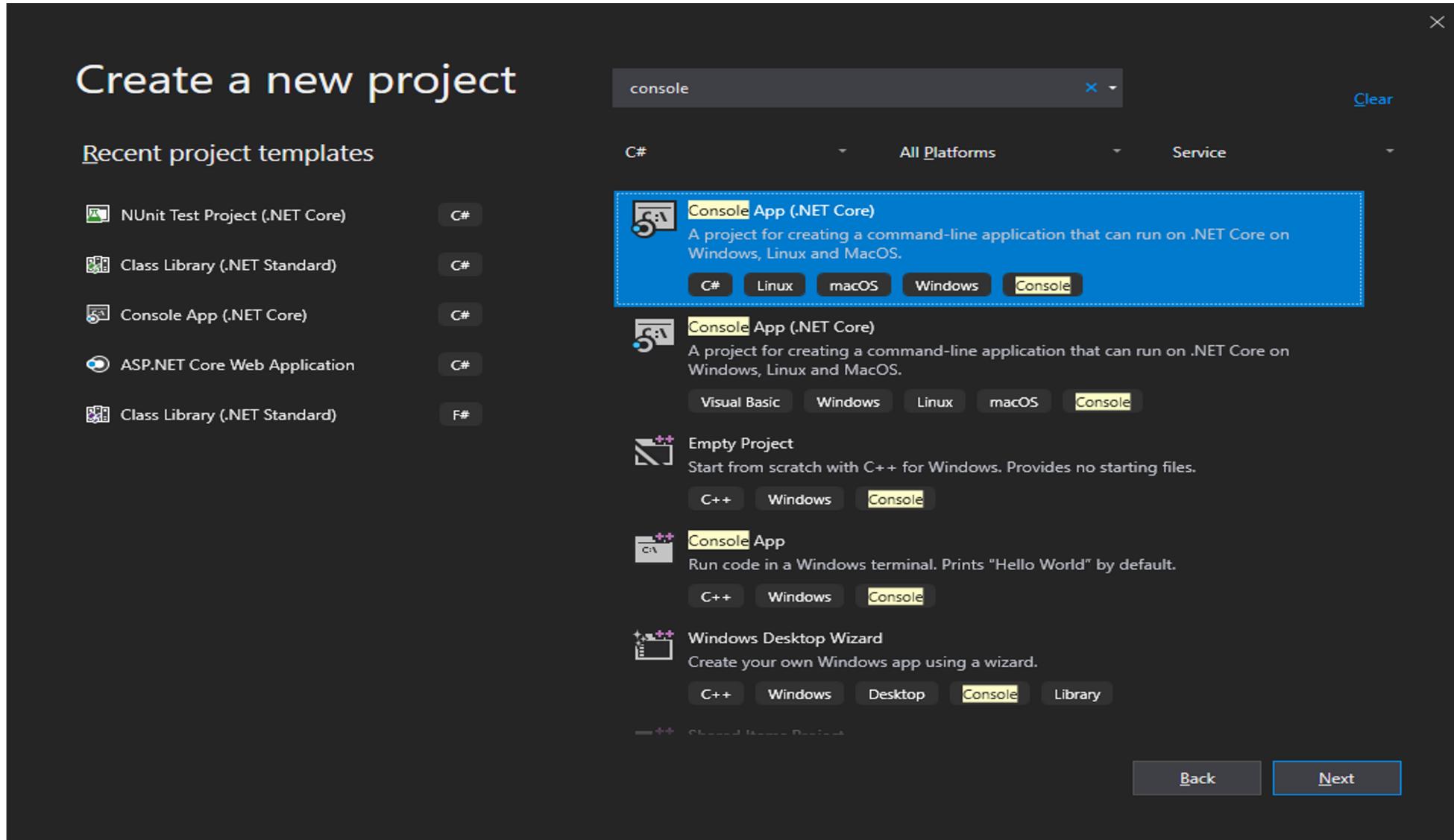
Console App (.NET Core)  
A project for creating a command-line application that can run on .NET Core on Windows, Linux and MacOS.  
Visual Basic Windows Linux macOS Console

Empty Project  
Start from scratch with C++ for Windows. Provides no starting files.  
C++ Windows Console

Console App  
Run code in a Windows terminal. Prints "Hello World" by default.  
C++ Windows Console

Windows Desktop Wizard  
Create your own Windows app using a wizard.  
C++ Windows Desktop Console Library

Back Next



# Create New Project – Set Project Name



## Configure your new project

Console App (.NET Core)

C#

Linux

macOS

Windows

Console

Project name

HelloWorld

Location

C:\Users\Admin\source\repos



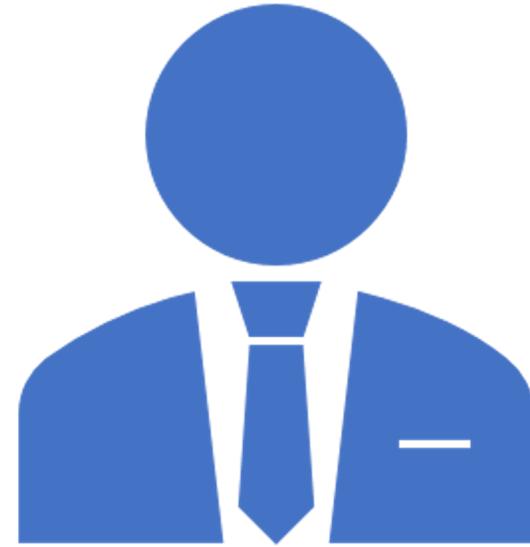
Solution name 

HelloWorld

Place solution and project in the same directory

Back

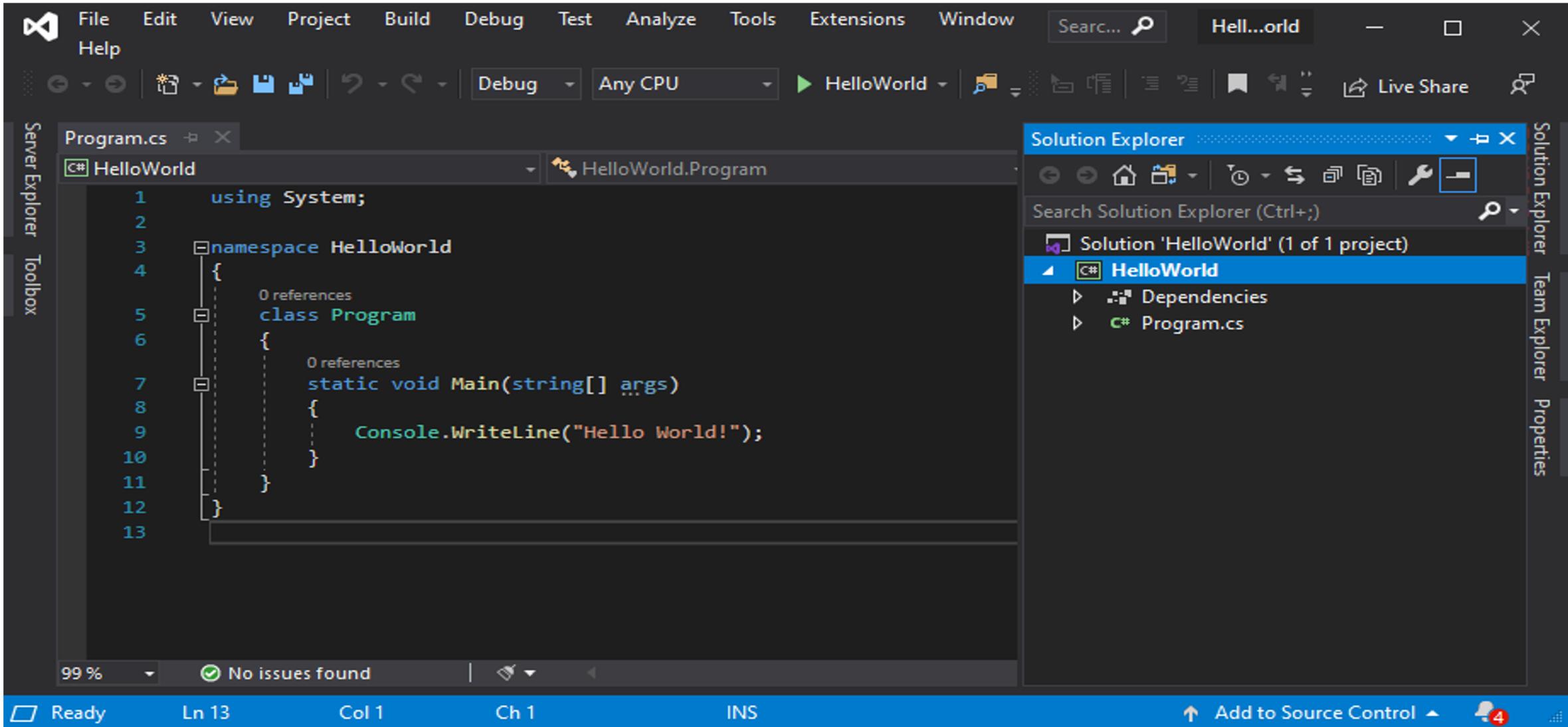
Create



**UC 1**

Ability to show Hello  
World Message when  
running .NET Console  
Application in VS  
Community IDE

# Intro to Visual Studio – Create And Write HelloWorld



The screenshot shows the Visual Studio IDE interface with a C# project named "HelloWorld".

**MenuBar:** File, Edit, View, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window.

**Search Bar:** Search... 🔎 Hell...orld

**Toolbars:** Standard toolbar with icons for Save, Open, Print, etc.

**Project Explorer:** Shows the solution structure:

- Solution 'HelloWorld' (1 of 1 project)
  - >HelloWorld
    - Dependencies
    - Program.cs

**Code Editor:** Program.cs file content:1 using System;
2
3 namespace HelloWorld
4 {
5 class Program
6 {
7 static void Main(string[] args)
8 {
9 Console.WriteLine("Hello World!");
10 }
11 }
12}
13

**Status Bar:** 99 %, No issues found, Ready, Ln 13, Col 1, Ch 1, INS, Add to Source Control, Notifications (4)

# Intro to Visual Studio – Run HelloWorld Program

```
  Select Microsoft Visual Studio Debug Console
Hello World!
C:\Users\Admin\source\repos\HelloWorld\HelloWorld\bin\Debug\netcoreapp3.0\HelloWorld.exe (process 15424) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

# Ghost docs

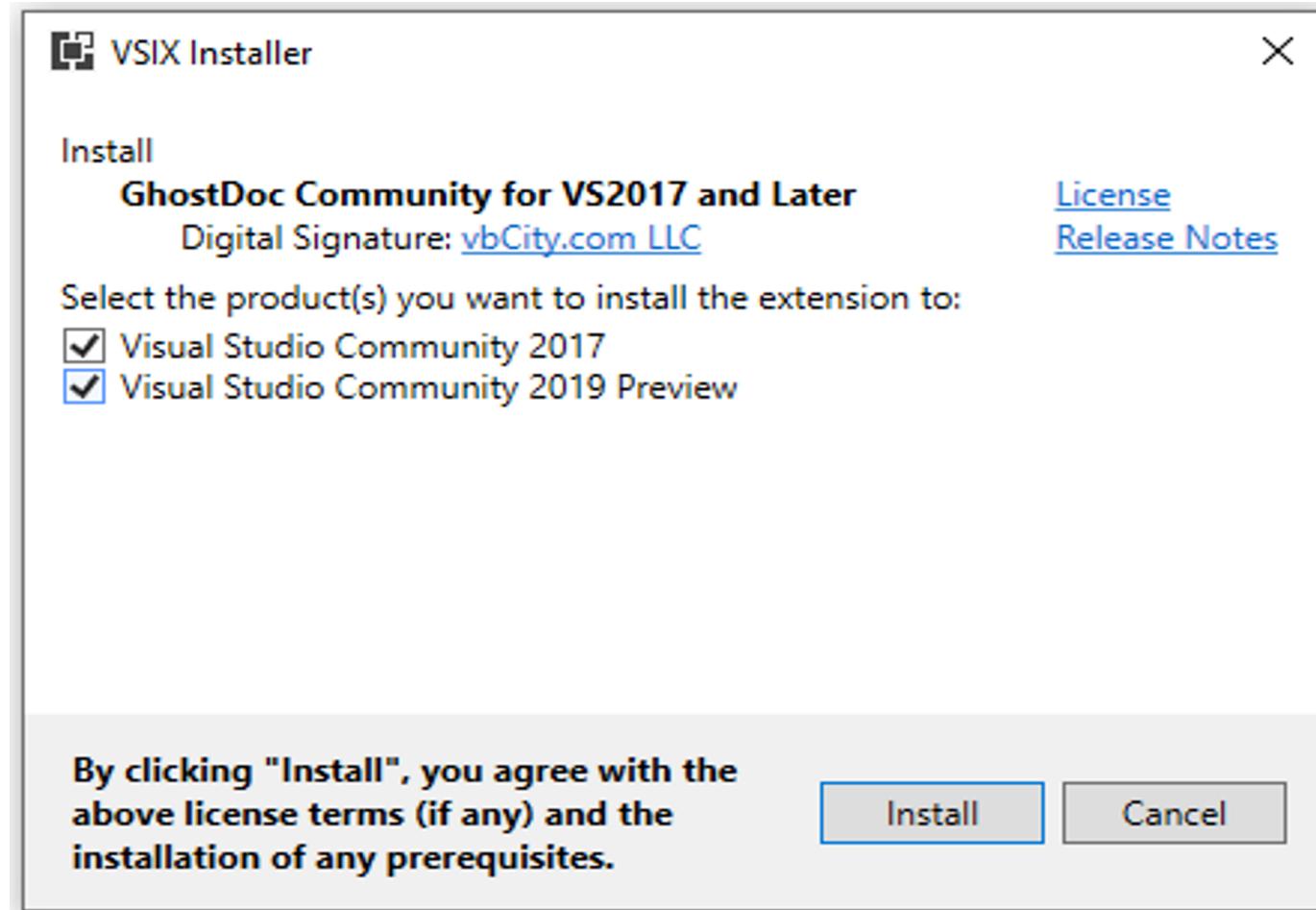
**GhostDoc** is a Visual Studio extension for developers who need to Generate XML Comments from source code using customizable templates, maintain clean and up-to-date documentation, produce help documentation in multiple formats, use intelligent source code Spell Checker in Visual Studio, and more.

**GhostDoc** also helps to automate the generation of clean, helpful documentation of your clean code, building it, and packaging it up all without human intervention.

# Download Ghost doc

<https://marketplace.visualstudio.com/items?itemName=sergeb.GhostDoc>

# Install Ghost doc



Double click on  
GhostDoc.v2020.2.20230.VS20  
17-VS2019.Extension

And click on Install

Once installation is done, close  
your Visual studio if it is open.

# Ghost doc

```
namespace WebApplication4
{
    0 references
    public class Program
    {
        /// <summary>
        /// Defines the entry point of the application.
        /// </summary>
        /// <param name="args">The arguments.</param>
        0 references | 0 exceptions
        public static void Main(string[] args)
        {
            CreateWebHostBuilder(args).Build().Run();
        }
    }
}
```



Ghost doc generates XML  
Comment Template



# BridgeLabz

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# Thankyou