How to create a basic Web Application with Visual Studio IDE, using C#

**Introduction**

The most traditional Beginner Web application Displays the words “Hello World”. This instructional project will guide users, specifically IT-Web Developers, how to create a basic web application with Visual Studio IDE, using C# coding language. The purpose of these instructions is to guide the user through the downloading process if needed, as well as how to create code to display a basic web page.

**Required Equipment**

A computer (desktop or laptop) either with Visual Studio IDE already installed, or a computer where Visual Studio can be downloaded to the device.

**Instructions**

**Note:** Steps 1-5 are optional, these steps take you through the process of downloading the Visual Studio Software.

If the device being used already has Visual Studio installed, please skip ahead to step 6 for instructions on how to create a basic web application using C#.

**Step 1:**

**Download** Visual Studio IDE using the Following Website:

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

**Choose** the “Community” option. **Click** on the “Free Download” as seen highlighted in Yellow in the Screen image below.

A screenshot of a computer program

Description automatically generated

**Step 2:**

**Click** on the download once prompted, seen in the image below (in the upper right corner highlighted in yellow).

A person looking at a computer

Description automatically generated

**Step 3:**

**Follow** the prompts to download the Visual Studio IDE to the desired computer or laptop device as seen in the following 2 images.

A screenshot of a computer

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A screenshot of a computer

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**Step 4:**

**Click** “OK” once the software has finished being installed, as seen below.

A screenshot of a computer

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**Step 5:**

**Click** “Launch” When the screen looks like the image below.

A screenshot of a computer

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**Step 6:**

**Create** a “new project” by selecting the create new project button highlighted in the image below.

A screenshot of a computer program

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**Step 7:**

**Click** on the “Console App” located on the left side of the screen.

**Then click** “next” on the lower left.

A screenshot of a computer program

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**Step 8:**

**Give** the project a Name.

**Then select** the location which you want the project saved to.

Finally **click** “next” once again.

A screenshot of a computer

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**Step 9:**

**Choose** the framework for the application.

**Note:** The default framework is .NET 8.0 and the “Do not use top-level statements” is checked. This default framework is sufficient as is, unless you specifically require something different, leave it as is.

**Then Click** “Create” on the lower right to create the web application!

A screenshot of a computer

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**Step 10:**

**Note:** after clicking “create” on the previous screen, this basic application will automatically open and auto-populate on the screen.

**Click** the green play button to run the program.

A screenshot of a computer

Description automatically generated

Below is what the screen will look like after running the program. Notice the console reads “Hello World!” in the image below.

A screen shot of a computer

Description automatically generated

**Step 11:**

**Add** code to the program.

Code seen in the program to be coppied:

Console.WriteLine(“Hello World!”);

“Hello World!” was displayed when the program was executed.

To **add more** code to be displayed: simply **copy** the code and **replace** it with desired text between the parentheses.

A computer screen shot of a black screen

Description automatically generated

**Step 12:**

**Adding** more code.

**Repeat** step 11 to display additional text to the console when the program is executed next.

**Note:** Make sure to put the new lines of code between the curly braces before the Console.WriteLine code to allow the program to run correctly.

A screenshot of a computer

Description automatically generated

**Step 13:**

**Run** the program once more by clicking the green run(play) button again.

The console screen will again display on the screen the code the user added as seen below.

A screenshot of a computer

Description automatically generated

**Conclusion**

These instructions are intended to help Programmers build a simple web application with Visual Studio using C# language. First install Visual Studio Software on the desired device (Optional steps 1-5). Then create a new project using the Console App. Name the project and save it to a desired folder destination on the device. Add code to the program and run/execute the code to display it to the Console! For more information regarding Visual Studio please refer to the provided link for support.

**APA Citation**

Visual Studio (2024). Visual Studio.Microsoft.com.

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