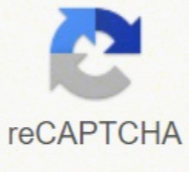




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Open

Net framework tutorial for beginners

In this session we will learn

- How to prevent SQL injection when using dynamic SQL

Link to Dot Net Basics, ASP.NET, C#, ADO.NET and SQL Server video series
<http://www.youtube.com/user/kushvenkat/playlists>

Suggested Videos
Part 138 - Dynamic SQL in SQL Server
Part 139 - Implement search web page using ASP.NET and Stored Procedure
Part 140 - Implement search web page using ASP.NET and Dynamic SQL
<http://csharp-video-tutorials.blogspot.com>

Chapter 2: .NET Core

Introduction

.NET Core is a general purpose development platform maintained by Microsoft and the .NET community on GitHub. It runs on Linux, macOS, and Windows, and can be used in cloud, hybrid, and on-premise scenarios.

When you think of .NET Core the following should come to mind (besides deployment, cross-platform, command line tools, open source):

Another great thing to think about is its open source Microsoft actively supporting it.

Remarks

By default, .NET Core includes a single application model - console app - which is useful for tools, local services and background games. Additional application models have been built on top of .NET Core to extend its functionality, such as:

- ASP.NET Core
- Windows 10 Universal Windows Platform (UWP)
- Xamarin Forms

.NET Core implements the .NET Standard Library, and therefore supports .NET Standard Libraries.

The .NET Standard Library is an API spec that describes the consistent set of .NET APIs that developers can expect in any .NET implementation. .NET implementations must implement this spec, in order to be considered .NET Standard Library compliant and to support libraries that target the .NET Standard Library.

Examples

Basic Console App

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApp1
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Hello World!");
        }
    }
}
```

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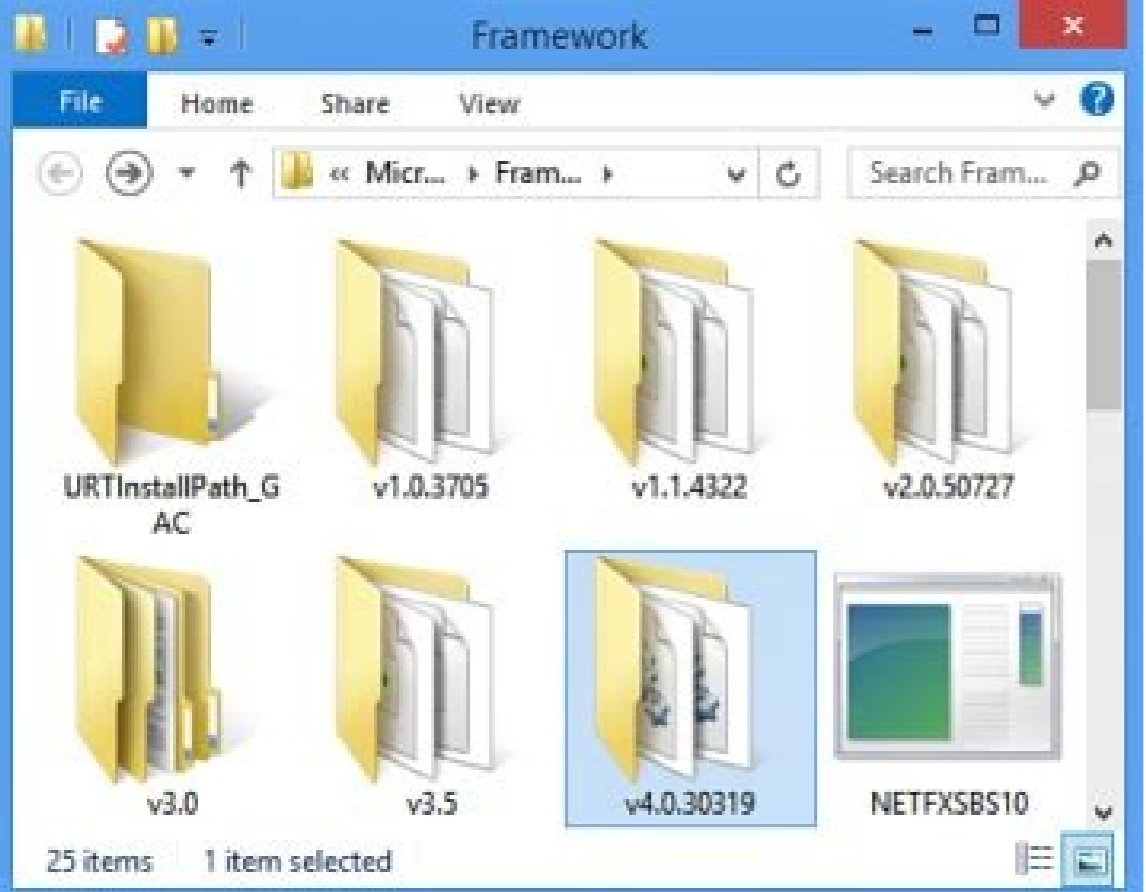
Table Per Type (TPT) Inheritance



In Parts 18 and 19 of Entity Framework tutorial we discussed how inheritance hierarchy can be represented using Table Per Hierarchy (TPH).
With TPH one database table is used to store data of all the entity types in the inheritance hierarchy.
The downside of this is that we have a denormalized table and some columns will have NULL values depending on the type of the derived object being saved to the database table.

EmployeeID	LastName	Gender	AnnualSalary	HireDate	Department	Discriminator
1	Mark	Male	80000	2001-01-01	HumanResources	PermanentEmployee
2	Stevie	Female	50000	2001-01-01	HumanResources	ContractEmployee
3	Bern	Male	40000	2001-01-01	HumanResources	ContractEmployee
4	Phyllis	Female	40000	2001-01-01	HumanResources	PermanentEmployee
5	Mary	Female	10000	2001-01-01	HumanResources	PermanentEmployee
6	Yvonne	Female	30000	2001-01-01	HumanResources	ContractEmployee
7	Lynn	Female	80000	2001-01-01	HumanResources	PermanentEmployee

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Blocking Example

```
using System;
using System.IO;
using System.Threading;

public class Program
{
    public static void Main()
    {
        Console.WriteLine("Counting characters in file...");
        int count = CountCharacters("C:\\Data\\Data.txt");
        Console.WriteLine($"Count: {count}");
    }

    private static int CountCharacters()
    {
        int count = 0;
        using (StreamReader reader = new StreamReader("C:\\Data\\Data.txt"))
        {
            string content = reader.ReadToEnd();
            count = content.Length;
            Thread.Sleep(5000);
        }
        return count;
    }

    private void btnProcessFile_Click(object sender, EventArgs e)
    {
        lblCount.Text = "Processing file. Please wait...";
        int count = CountCharacters();
        lblCount.Text = count.ToString() + " characters in file";
    }
}
```

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Asp.net entity framework tutorial for beginners. Dot net framework tutorial for beginners. .net framework tutorial for beginners pdf. Asp.net mvc entity framework tutorial for beginners. Microsoft .net framework tutorial for beginners. .net framework tutorial for beginners. C# .net framework tutorial for beginners. Asp.net framework tutorial for beginners.

Using the MONO framework The .NET application can run on any operating system that includes Windows. The first version of the .NET Framework was 1.0 that arrived in the year 2002. .NET is a software framework designed and developed by Microsoft. Platform-dependent means that the programming language code will run only on a particular operating system. It is the runtime environment within the .NET framework that executes the codes and helps to make the development process easier by providing various services, such as remote, thread management, type security, memory management, robustness, etc. It's used. To create applications for Windows, phones, web, etc. Mono Framework is a third-party software developed by Novell Company, which is now part of the Micro Focus company. Installation of the .NET Framework Basically it is the installation of CLR and FCL on the system. The .NET application is platform independent, also by the mono frame. Below is the general description of the .NET Framework. Is the application platform independent of the platform? The combination of the architecture of the operating system and the architecture of the CPU is known as the platform. Originally it was called NGWS (next generation web services). It's like header files in C/C++ and packages in Java. It also helps with the management of the Code, since the code that addresses the runtime is known as the managed code, and the code that does not address Runtime is known as the unmanaged code. "Framework Class Library (FCL): is the collection of reusable, object-oriented libraries and methods that can be integrated with CLR. The remaining non-Microsoft languages are supported by the .NET Framework, but not designed and developed by Microsoft. 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Windows update will give recommendations to install the .NET framework. It provides a lot of functionalities and also supports industry standards. A .NET Framework supports more than 60 programming languages in which 11 programming languages are designed and developed by Microsoft. It is a paid framework. A Release History of .NET Framework and its compatibility with the different Windows version A .NET Version CLR Version Development tool Windows Support 1.0 1.0 Visual Studio .NET XP SP1 1.1 1.1 Visual Studio .NET 2003 XP SP2, SP3 2.0 Visual Studio 2005 N/A 3.0 2.0 Expression Blend Vista 3.5 2.0 Visual Studio 2008 7, 8, 8.1, 104.04 Visual Studio 2010 N/A 4.5 4.5 Visual Studio 2012 4.5 14 Visual Studio 2013 13.14 5.24 N/A N/A 4.6 4.6 Visual Studio 2015 10 v15074.6 14 Visual Studio 2015 Update 1 10 v15114.6 24 N/A 10 v16074.7 4 Visual Studio 2017 10 v17034.7 14 Visual Studio 2017 10 v17094.7 24 Visual Studio 2017 10 v1803 Important Points: A Visual Studio is the development tool that is used to design and develop .NET applications. There is a variety of programming languages available on the .Net platform. VB.Net and C# being the most common ones. The technology of .Net is developed by Microsoft and was launched in Feb. Feb.

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