

How can I make my string property nullable?



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I want to make the Middle Name of person optional. I have been using C#.net code first approach. For integer data type its easy just by using ? operator to make in nullable. I am looking for a way to make my sting variable nullable. I tried to search but could not find the way to make it nullable.



Below is my code. Please suggest me how to make it nullable.



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```
public class ChildrenInfo
{
    [Key]
    public int ChidrenID { get; set; }

    [Required]
    [Display(Name = "First Name")]
    [StringLength(50, ErrorMessage = "First Name cannot exceed more than 50 characters")]
    [RegularExpression(@"^[A-Z]+[a-z]*$", ErrorMessage = "Name cannot have special
character,numbers or space")]
    [Column("FName")]
    public string CFName { get; set; }

    [Display(Name = "Middle Name")]
    [RegularExpression(@"^[A-Z]+[a-z]*$", ErrorMessage = "Middle Name cannot have special
character,numbers or space")]
    [StringLength(35, ErrorMessage = "Middle Name cannot have more than 35 characters")]
    [Column("MName")]
    public string? CMName { get; set; }
}
```

c#

asp.net-mvc

entity-framework

ef-migrations

edited Feb 19 at 9:51



Liam

16.8k

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asked Sep 29 '15 at 20:47



Sabin Kumar Sharma

188

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1 Possible duplicate of [What is the difference between a reference type and value type in c#?](#) – Liam Feb 19 at 9:48

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7 Answers



String is a reference type and always nullable, you don't need to do anything special. Specifying that a type is nullable is necessary only for value types.

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answered Sep 29 '15 at 20:56



aw04

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1 this is not entirely true for c# 8+.with c# 8+ string will be still nullable bu with #nullable enable you may use nullable operator as well for strings. – [cahit beyaz](#) Dec 6 '18 at 12:17

In C# 8.0 reference types may be marked as nullable. One may type `string?` to tell the world this string may be null. Ref: youtube.com/watch?v=VdC0aoa7ung – [Nikola](#) Mar 4 at 23:06



System.String is a reference type so you don't need to do anything like

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`Nullable<string>`

It already has a null value (the null reference):

```
string x = null; // No problems here
```

answered Sep 30 '15 at 5:24



Kashif Mustafa

982

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Strings are nullable in C# anyway because they are reference types. You can just use `public string CMName { get; set; }` and you'll be able to set it to null.

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-
- 2 Every type is an object in C# (through inheritance). The reason `string` s are nullable is because they're instances of a reference type. – [Kapol](#) Sep 29 '15 at 20:58
-
- 1 Thanks, that's a helpful clarification. I've updated my answer accordingly. – [Tim](#) Sep 29 '15 at 21:01
-

It's not possible to make reference types Nullable. Only value types can be used in a Nullable structure. Appending a question mark to a value type name makes it nullable. These two lines are the same:

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```
int? a = null;  
Nullable<int> a = null;
```

answered Sep 29 '15 at 20:59

[Vova](#)

1,137 8 24

It's not possible to make reference types Nullable all reference types are implicitly nullable. This is misleading at best – [Liam](#) Feb 19 at 9:49

As others have pointed out, `string` is always nullable in C#. I suspect you are asking the question because you are not able to leave the middle name as null or blank? I suspect the problem is with your validation attributes, most likely the `Regex`. I'm not able to fully parse `Regex` in my head but I **think** your `Regex` insists on the first character being present. I could be wrong - `Regex` is hard. In any case, try commenting out your validation attributes and see if it works, then add them back in one at a time.

answered Sep 29 '15 at 21:08

[Frans](#)

4,740 5 29 51

You don't need to do nothing, the modelbinding will pass null to variable without problems.

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`string` type is a reference type, therefore it is nullable by default. You can only use `Nullable<T>` with value types.

0 `public struct Nullable<T> where T : struct`

Which means that whatever type is replaced for the generic parameter, it must be a value type.

edited Feb 23 at 14:56

answered Sep 29 '15 at 20:56



Kapol

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I think you meant value type type rather than struct? – Frans Sep 29 '15 at 20:58

@Frans Of course. Thanks. – Kapol Sep 29 '15 at 21:02