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.

```
★ 5
```

```
public class ChildrenInfo
    [Kev]
   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



asked Sep 29 '15 at 20:47



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

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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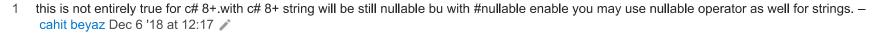






answered Sep 29 '15 at 20:56





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

8 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** 5 19



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.





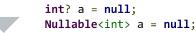
,328 2 16 31

- 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:





answered Sep 29 '15 at 20:59



/ova

7 8 2

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

,740 5 29 5



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





19 4 24



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



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

5,226

3 15 36

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