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Check if any property of class is null

Asked 2 years, 9 months ago Active 1 year, 2 months ago Viewed 8k times



I have following class:-

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```
public class Requirements
{
    public string EventMessageUid { get; set; }
    public string ProjectId { get; set; }
    public List<Message> Message { get; set; }
}
```

I am mapping it with incoming Json:-

```
Requirements objRequirement = JsonObject.ToObject<Requirements>();
```

I wanted to check if any property of class has no value or left null after above mapping.

For this I tried :-

```
bool isNull= objRequirement.GetType().GetProperties().All(p => p != null);
```

But while debugging I found that whether property left Null or not each time it gives value true.

Please help me how can I achieve this by Avoiding For/foreach loop.

c#

asp.net

.net

asked Dec 22 '16 at 4:27



C Sharper

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5 ANSWERS

You're checking if the properties *themselves* are null (which will never be true), not the values of the properties. Use this instead:

19

```
bool isNull = objRequirement.GetType().GetProperties()
    .All(p => p.GetValue(objRequirement) != null);
```



answered Dec 22 '16 at 4:29



Rob ♦

23.4k 12 62 80

This worked.. Only change I made.. -> p.GetValue(objRequirement,null) ... GetValue method was not taking one parameter..it was demanding for second – [C Sharper](#) Dec 22 '16 at 4:36

This might do the trick for you

2

```
objRequirement.GetType().GetProperties()
    .Where(pi => pi.GetValue(objRequirement) is string)
    .Select(pi => (string) pi.GetValue(objRequirement))
    .Any(value => String.IsNullOrEmpty(value));
```



answered Dec 22 '16 at 4:32



Mohit Shrivastava

11.8k 5 26 50

I use the below extension of the object which I use for validating objects that I don't want to have all properties null or empty in order to save some calls to the database. I think it fits your case along with some more.

1

```
/// <summary>
/// Returns true is all the properties of the object are null, empty or "smaller or
equal to" zero (for int and double)
```

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```
public static bool IsObjectEmpty(this object obj)
{
    if (Object.ReferenceEquals(obj, null))
        return true;

    return obj.GetType().GetProperties()
        .All(x => IsNullOrEmpty(x.GetValue(obj)));
}

/// <summary>
/// Checks if the property value is null, empty or "smaller or equal to" zero (for
numeric types)
/// </summary>
/// <param name="value">The property value</param>
/// <returns></returns>
private static bool IsNullOrEmpty(object value)
{
    if (Object.ReferenceEquals(value, null))
        return true;

    if (value.GetType().GetTypeInfo().IsClass)
        return value.IsObjectEmpty();

    if (value is string || value is char || value is short)
        return string.IsNullOrEmpty((string) value);

    if (value is int)
        return ((int) value) <= 0;

    if (value is double)
        return ((double) value) <= 0;

    if (value is decimal)
        return ((decimal) value) <= 0;

    if (value is DateTime)
        return false;

    // .....
    // Add all other cases that we may need
    // .....

    if (value is object)
        return value.IsObjectEmpty();

    var type = value.GetType();
```

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The call is obviously `obj.IsNullOrEmpty()`

answered Jul 20 '18 at 9:41



[Anastasios Selmantis](#)

2,322 3 22 36

Thanks i was looking for this – [Sanket Sonavane](#) May 1 at 15:33

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