C# Reflection API

The goal of this survey is to identify the perception of developers who use the C# Reflection API. It consists of three parts:

- i. Participant Background (3 questions)
- ii. The C# Reflection API (7 questions)
- iii. Additional Comments (2 questions)

Answering the survey should take around 10-15 minutes of your time. All the data collected from the survey is anonymous. The results of the survey may be reported in academic publications. If you have any questions or concerns, please contact <bli>blinded>.

Thanks,

<bli><bli>ded>

* Required

Participant Background

In this section, we will ask questions about your profile.

 How many years of C# programming experience do you h Mark only one oval. 	ave? *
I don't have experience developing C# applications stop filling out this form.	After the last question in this section,
Less than one year	
1-3 years	
4-6 years	
7-10 years	
More than 10 years	
2. Rate your background/knowledge about the C# Reflection Mark only one oval.	API. *
Not knowledgeable - I do not know anything about it stop filling out this form.	After the last question in this section,
Somewhat knowledgeable - I have a vague idea about	it
Knowledgeable - I am familiar with it	
Very knowledgeable - I know all/most classes and met	hods of it

3. How often do you need to use the C# Reflection API in your software applications? * Mark only one oval.
Never Stop filling out this form.
Sometimes - I need reflection for less than 33% of the software applications I develop
Occasionally - I use reflection in more than 33% but less than 66% of the software applications I develop
Frequently - I need reflection for more than 66% of the software applications I develop
The C# Reflection API
n this section, we present questions about the C# Reflection API.
Consider the following program:
<pre>using System; using System.Reflection;</pre>
public class A
{
<pre>public event Action Event { add { } remove { } } }</pre>
<pre>public class B : A {</pre>
<pre>public static void Main(string[] args) {</pre>
<pre>Type type = typeof(B); EventInfo eventInfo = type.GetEvent(nameof(A.Event)); MemberInfo memberInfo = eventInfo.AddMethod; Console.WriteLine(memberInfo.ReflectedType); }</pre>
} 4. What is the output of the above program? See documentation (https://goo.gl/TD3aMz). *
Mark only one oval.
Event B
Δ

Consider the following program:

Null

Other:

Consider the following program:

6. What is the output of the above program? See documentation (https://goo.gl/SCu3FR). * Mark only one oval.
Null Void Member2(), System.Int32 Member1 It throws an exception System.Int32 Member1, Void Member2() Other:
Consider the following program:
using System; using System.Reflection;
<pre>public class A { public void M<t>() { } }</t></pre>
<pre>public class B : A { public static void Main(string[] args) { Type t = typeof(B); MethodInfo method = t.GetMethod("M"); Console.WriteLine(method.MakeGenericMethod(typeof(int))); } }</pre>
7. What is the output of the above program? See documentation (https://goo.gl/uSNYdb).* Mark only one oval.
Null Void M[Int32]() Void M[T]() It throws an exception
Other:

Consider the following program:

```
using System.Reflection;
public class A
{
    public static void Main()
    {
        Assembly assem = typeof(A).Assembly;
        A a = (A)assem.CreateInstance(" ");
        if (a == null)
        {
             Console.WriteLine("Null");
        }
        else
        {
             Console.WriteLine(a);
        }
    }
}
```

8. What is the output of the above program? See documentation (https://goo.gl/TVyr4q). *

Mark only one oval.

A
System.Object
Null
It throws an exception
Other:

Consider the following program:

9. What is the output of the above program? See documentation (https://goo.gl/1CvrRp) * Mark only one oval.
Null
System.Object
It throws an exception
Field
Other:
Consider the following program:
using System;
using System.Reflection;
public class A
{
<pre>public void M(int p) {} </pre>
public class B : A
{
<pre>public void M(string p) {}</pre>
public static void Main()
<pre>{ Type type = typeof(B);</pre>
MemberInfo[] membersArray = type.GetMember("M");
<pre>for (int index = 0; index < membersArray.Length; index++)</pre>
<u> </u>
<pre>Console.WriteLine(membersArray[index].ToString()); }</pre>
}
10. What is the output of the above program? See documentation (https://goo.gl/WcEEx1). * Mark only one oval.
Void M(Int32)
Void M(System.String) and Void M(Int32)
Void M(System.String)
It throws an exception
Other:
Other.

Additional Comments

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