Java Reflection API

The goal of this survey is to identify the perception of applications developers about the Java Reflection API. It consists of four parts:

- i. Participant Background (3 questions)
- ii. Java Compilers and IDEs (5 questions)
- iii. The Java Reflection API (6 questions)
- iv. Additional Comments (3 questions)

Answering the survey should take around 5-7 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>ded>

* Required

Participant Background

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

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

3. How often do you need to use the Java Reflection API in your software applications? * Mark only one oval.	r
Never Stop filling out this form.	
Sometimes - I need reflection for less than 33% of the software applications I develop	1
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)
Java Compilers and IDEs	
In this section, we present questions about Java compilers.	
4. Which compiler do you use when developing Java applications? * Mark only one oval.	
Oracle javac	
It does not matter	
Eclipse for Java Compiler (ECJ)	
OpenJDK javac	
Other:	
5 Which IDE do not use when double in a love we were 2 *	
5. Which IDE do you use when developing Java programs? * Mark only one oval.	
Eclipse	
Intellij IDEA	
NetBeans	
Other:	
6. Do you use the same Java compiler during development and during deployment proccess? *	
Mark only one oval.	
I don' know	
Yes	
No	
It does not matter	
7. Why? *	

	mmon to see Eclipse and IntelliJ IDEA being used in the same Java development
team. ¹ Mark o	nly one oval.
	Strongly disagree
	Disagree
	Neither disagree nor agree
	Agree
	Strongly agree
The Jav	va Reflection API
In this secti	on, we present questions about the Java Reflection API.
-	u know what a synthetic field or method is in the Java Reflection API context? *
	No
	Yes
Method or inter protect	petDeclaredMethods() returns an array containing I objects reflecting all the declared methods of the class face represented by this Class object, including public, ed, default (package) access, and private methods, but ing inherited methods.
p }	<pre>ublic interface A { public A clone();</pre>
	s the result of getDeclaredMethods for interface "A"? * nly one oval.
	_
	nly one oval.
	No declared methods
	No declared methods public abstract A A.clone() and public default Object A.clone()

Class.getMethod(String methodName) returns a Method object that reflects the specified public member method of the class or interface represented by this Class object.

```
public class A extends B {
}

public class B extends C {
}

class C {
   public void c() {
   }
}
```

11. What is the result of invoking getMethod("c") for class "A"? *

```
Mark only one oval.

public void A.c

public void Object.c

public void B.c

public void C.c

Other:
```

Class.getDeclaredFields() returns an array of Field objects reflecting all the fields declared by the class or interface represented by this Class object. This includes public, protected, default (package) access, and private fields, but excludes inherited fields.

```
public final class A extends B {
   public void a(C c) {
      switch (c) {
      case X:
      }
   }
}

public class B {
   public enum C {
      X
   }
   protected C c;
}
```

12. What is the result of invoking getDeclaredField Mark only one oval.	ds for class "A"? *
No declared fields	
private static int[] A.\$SWITCH_TABLE\$B\$	C
protected int[] A.\$SWITCH_TABLE	
protected C B.c	
Other:	
13. Do you think that the Java Reflection API method using binaries of a program compiled using two Mark only one oval. I do not know Skip to question 15.	
No Skip to question 15. Yes	
14. What do you do to handle different results pre	sented by the Java Reflection API? *
	comments about the Java Reflection API
Additional Comments 15. Please, let us know if you have any additional	comments about the Java Reflection API.
Additional Comments 15. Please, let us know if you have any additional 16. Do you have any doubt or suggestion?	comments about the Java Reflection API.
15. Please, let us know if you have any additional	comments about the Java Reflection API.

