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. The Java Reflection API (3 questions)
- iii. Additional Comments (3 questions)

Answering the survey should take around 5 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.

, and account, and an account question account, and provide	
1. How many years of Java programming experience do you h	ave? *
Mark only one oval.	
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	n API. *
Mark only one oval.	
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	
Knowledgeable - I am familiar with it	
Very knowledgeable - I know all/most classes and metho	ods of it

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 Java Reflection API

In this section, we present questions about the Java Reflection API.

Class.getDeclaredMethods() returns an array containing Method objects reflecting all the declared methods of the class or interface represented by this Class object, including public, protected, default (package) access, and private methods, but excluding inherited methods.

```
public interface A {
  public A clone();
}
```

4. What is the result of getDeclaredMethods for interface "A"? *

Mark only one oval.

No declared methods

public abstract A A.clone() and public default Object A.clone()

public default Object A.clone()

public abstract A A.clone()
Other:

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() {
   }
}
```

5. What is the Mark only or	result of invoking getMethod("c") for class "A"? *
	c void A.c c void Object.c
	c void B.c
	c void C.c
Othe	·
reflecting a represente protected,	eclaredFields() returns an array of Field objects all the fields declared by the class or interface d by this Class object. This includes public, default (package) access, and private fields, but nherited fields.
	<pre>lic final class A extends B { ublic void a(C c) { switch (c) { case X: }</pre>
. p	lic class B { ublic enum C { X rotected C c;
}	was all of invaling wat Danierad Fields for along "A"2 *
6. What is the Mark only or	result of invoking getDeclaredFields for class "A"? * ne oval.
O No de	eclared fields
priva	te static int[] A.\$SWITCH_TABLE\$B\$C
prote	cted int[] A.\$SWITCH_TABLE
o prote	cted C B.c

Additional Comments

Other: _____

. Please, let us know if you have any additional	comments about the Java Reflection AFI.
. Do you have any doubt or suggestion?	
. If you would like to receive the results of our survey, please leave your email address.	

