

Base Language - Bug #7089

sanitize p2j.oo method signature

02/01/2023 09:27 AM - Constantin Asofiei

Status:	WIP	Start date:	
Priority:	Normal	Due date:	
Assignee:	Constantin Asofiei	% Done:	50%
Category:		Estimated time:	0.00 hour
Target version:		case_num:	
billable:	No	version:	
vendor_id:	GCD		
Description			

History

#2 - 02/01/2023 09:39 AM - Constantin Asofiei

In incremental conversion, it was found that a RequestBuilder.put method's LegacySignature was inconsistent with the method's real arguments.

This program can be used to check which methods have problems at the LegacySignature:

```
package testing;

import java.lang.reflect.Field;
import java.lang.reflect.Method;
import java.util.Set;
import java.util.TreeSet;

import org.reflections.Reflections;
import org.reflections.scanners.SubTypesScanner;

import com.goldencode.p2j.oo.lang._BaseObject_;
import com.goldencode.p2j.util.BaseDataType;
import com.goldencode.p2j.util.LegacyParameter;
import com.goldencode.p2j.util.LegacySignature;
import com.goldencode.p2j.util.OutputExtentParameter;
import com.goldencode.p2j.util.OutputTableHandle;

public class LegOOCheck
{
    public static void main(String[] args)
    {
        Reflections reflections = new Reflections("com.goldencode.", new SubTypesScanner(false));
        Set<Class<?>> classes = new TreeSet<>((c1, c2) -> c1.getName().compareTo(c2.getName()));
        classes.addAll(reflections.getSubTypesOf(_BaseObject_.class));

        for (Class<?> cls : classes)
        {
            Field[] fields = cls.getDeclaredFields();
            Method[] methods = cls.getDeclaredMethods();

            for (int i = 0; i < methods.length; i++)
            {
                Method m = methods[i];
                LegacySignature ls = m.getAnnotation(LegacySignature.class);
                if (ls == null)
                {
                    continue;
                }

                Class<?>[] ptypes = m.getParameterTypes();

                LegacyParameter[] lsp = ls.parameters();
                if (lsp.length != ptypes.length)
                {

```

```

        System.out.println("1. " + m.toString());
    }

    for (int j = 0; j < lsp.length; j++)
    {
        LegacyParameter p1 = lsp[j];
        Class<?> p2 = ptypes[j];
        if (p2.isArray())
        {
            p2 = p2.getComponentType();
        }
        if (p2 == OutputExtentParameter.class || p2 == OutputTableHandle.class || p2 == Object.class ||
p2 == String.class || p2 == long.class)
        {
            continue;
        }

        if (!p1.type().equalsIgnoreCase(p2.getSimpleName()))
        {
            System.out.println("2. " + j + " " + m.toString());
        }
        if (p2 == com.goldencode.p2j.util.object.class && p1.qualified().isEmpty())
        {
            System.out.println("3. " + j + " " + m.toString());
        }
        if (!p1.qualified().isEmpty() && p2 != com.goldencode.p2j.util.object.class)
        {
            System.out.println("4. " + j + " " + m.toString());
        }
    }

    int j = -1;
    Class<?> p2 = m.getReturnType();
    if (p2.isArray())
    {
        p2 = p2.getComponentType();
    }
    if (p2 == Object.class || p2 == BaseType.class)
    {
        continue;
    }
    if (!ls.returns().equalsIgnoreCase(p2.getSimpleName()))
    {
        System.out.println("2. " + j + " " + m.toString());
    }
    if (p2 == com.goldencode.p2j.util.object.class && ls.qualified().isEmpty())
    {
        System.out.println("3. " + j + " " + m.toString());
    }
    if (!ls.qualified().isEmpty() && p2 != com.goldencode.p2j.util.object.class)
    {
        System.out.println("4. " + j + " " + m.toString());
    }
}

for (int j = 0; j < fields.length; j++)
{
    Field f = fields[j];
    LegacySignature ls = f.getAnnotation(LegacySignature.class);
    if (ls == null || ls.returns().isEmpty() || "void".equals(ls.returns()))
    {
        continue;
    }

    Class<?> p2 = f.getType();
    if (p2.isArray())
    {
        p2 = p2.getComponentType();
    }
    if (!ls.returns().equalsIgnoreCase(p2.getSimpleName()))
    {
        System.out.println("2. " + j + " " + f.toString());
    }
    if (p2 == com.goldencode.p2j.util.object.class && ls.qualified().isEmpty())
    {

```


#3 - 02/08/2023 02:08 PM - Constantin Asofiei

- *% Done changed from 0 to 50*
- *Assignee set to Constantin Asofiei*
- *Status changed from New to WIP*

I have the changes to solve the signature inconsistencies in p2j.oo, but I'll wait to create a branch after 6129c is merged to trunk.

The LegacySignature has duplicated code with the real Java method's signature.. part is not addressed yet.

#4 - 02/15/2023 05:21 AM - Constantin Asofiei

The current changes are in 7026a rev 14814.