

Class object from sources of an project



[Andre Kullmann](#) 6 posts since

Feb 3, 2010

Hi,

I try to develop my first intellij idea plugin.

Now I need the compiled class of an source in the project.

Something like :

Project

com/company/MyClass.java

Plugin {

```
ClassLoader cl = project.getClassLoader();  
for( Class c =cl.loadClass( "com.company.MyClass" ); c != null; c = c.getSuperClass() )  
    System.out.println( c );  
}
```

Is this possible ?

Thanx,

Class object from sources of an project

André

Tags: project, compile, source



[Dmitry Jemerov](#) 11,708 posts since

Aug 19, 2002 1. **Re: Class object from sources of an project** Feb 3, 2010 2:50 PM

Hello Andre,

What are you trying to accomplish? Usually it's not a good approach to load the compiled classes of your application into IDEA's classloader.

Hi,

I try to develop my first intellij idea plugin.

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Something like :

Project

com/company/MyClass.java

Plugin {

+
+
+ ClassLoader cl = project.getClassLoader();+

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Class object from sources of an project

```
+ System.out.println( c );+  
}
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Is this possible ?

Thanx,

André

Original message URL:

<http://www.jetbrains.net/devnet/message/5255841#5255841>

--

Dmitry Jemerov

Development Lead

JetBrains, Inc.

<http://www.jetbrains.com/>

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[Andre Kullmann](#) 6 posts since

Feb 3, 2010 2. **Re: Class object from sources of an project** Feb 3, 2010 4:38 PM

Hi Dmitry,

Class object from sources of an project

thanks for reply.

I try to find out the class hierarchy.

The plugin I develop shows an preview of gui layout defined in xml. Every xml belongs to an class. The translations are stored In properties files. So it is possible to override information in properties and xml in and child class.

The parser needs the class and the xml as input to render the layout preview.

Currently my code looks like

```
URL buildRoot =

    new File( project.getBaseDir().getPath() + "/out/production/" +
project.getName() ).toURI().toURL();

URL srcRoot =

    new File( project.getBaseDir().getPath() + "/src" ).toURI().toURL();

URLClassLoader cl = new URLClassLoader( new URL[]{ srcRoot, buildRoot },
null );
```

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```
Class<?> c = cl.loadClass( tmp );
```

The problems are

- 1) there can be more than on src path, how will i know the src paths ?
- 2) same with the out path.
- 3) i need the classpath of the project, to include in the URLClassLoader, how will i know the classpath ?



[Dmitry Jemerov](#) 11,708 posts since

Aug 19, 2002 3. **Re: Class object from sources of an project** Feb 3, 2010 4:50 PM

Hello Andre,

You don't need access to compiled classes in order to find out the class hierarchy. See `PsiClass.getSuperClass()` in the OpenAPI.

Hi Dmitry,

thanks for reply.

I try to find out the class hierarchy.

The plugin I develop shows an preview of gui layout defined in xml.

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properties files. So it is possible to override information in properties and xml in and child class.

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Class object from sources of an project

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URLClassLoader, how will i know the classpath ?

Original message URL:

<http://www.jetbrains.net/devnet/message/5255845#5255845>

--

Dmitry Jemerov

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<http://www.jetbrains.com/>

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[Andre Kullmann](#) 6 posts since

Feb 3, 2010 4. **Re: Class object from sources of an project** Feb 3, 2010 9:18 PM

He,

Class object from sources of an project

ok psi looks interesting.

To get an PsiClass instance I using

```
PsiJavaFile j = (PsiJavaFile) PsiManager.getInstance( project ).findFile( file );  
  
for( PsiClass c : j.getClasses() ) {  
  
    find the right  
  
}
```

Is there an way more simple to get an PsiClass, like

```
PsiManager.getInstance( project ).findClass( "com.company." );
```

Thanks,

André

Class object from sources of an project



[Dmitry Jemerov](#) 11,708 posts since

Aug 19, 2002 5. **Re: Class object from sources of an project** Feb 3, 2010 9:23 PM

Hello Andre,

`JavaPsiFacade.getInstance(project).findClass(String qualifiedName)`

He,

ok psi looks interesting.

To get an PsiClass instance I using

```
PsiJavaFile j = (PsiJavaFile)
```

```
PsiManager.getInstance( project ).findFile( file );
```

```
for( PsiClass c : j.getClasses() ) {
```

```
find the right
```

```
}
```

Is there an way more simple to get an PsiClass, like

```
PsiManager.getInstance( project ).findClass(
```

```
"com.company." );
```

Thanks,

André

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Original message URL:

<http://www.jetbrains.net/devnet/message/5255884#5255884>

--

Dmitry Jemerov

Development Lead

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<http://www.jetbrains.com/>

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[Andre Kullmann](#) 6 posts since

Feb 3, 2010 6. **Re: Class object from sources of an project** Feb 3, 2010 10:22 PM

Ah I see,

thanks a lot !!