

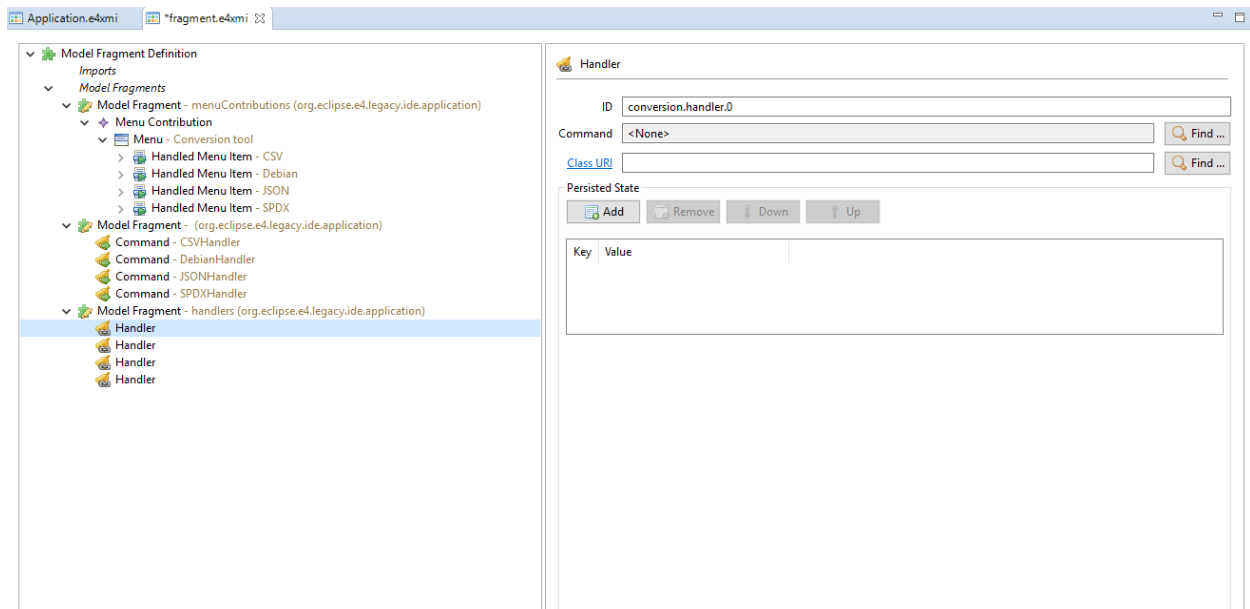
Solution proposal

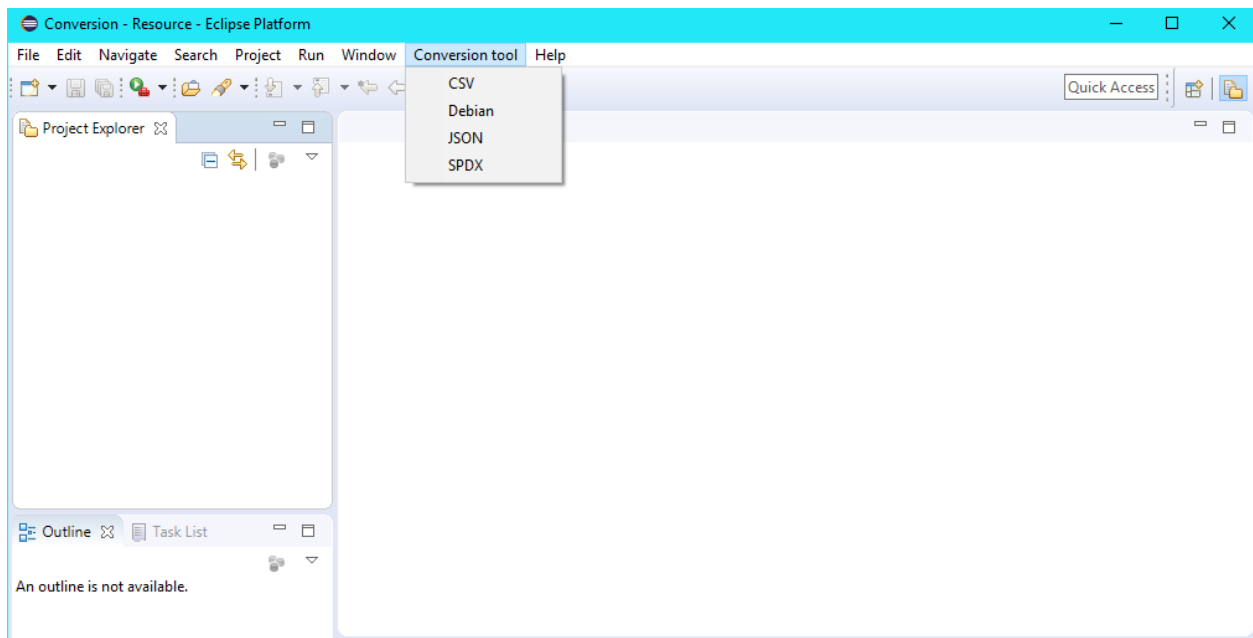
By Kiet Tran

Create ScanCode plugins for outputs to multiple formats (CSV, JSON, SPDX, Debian Copyright)

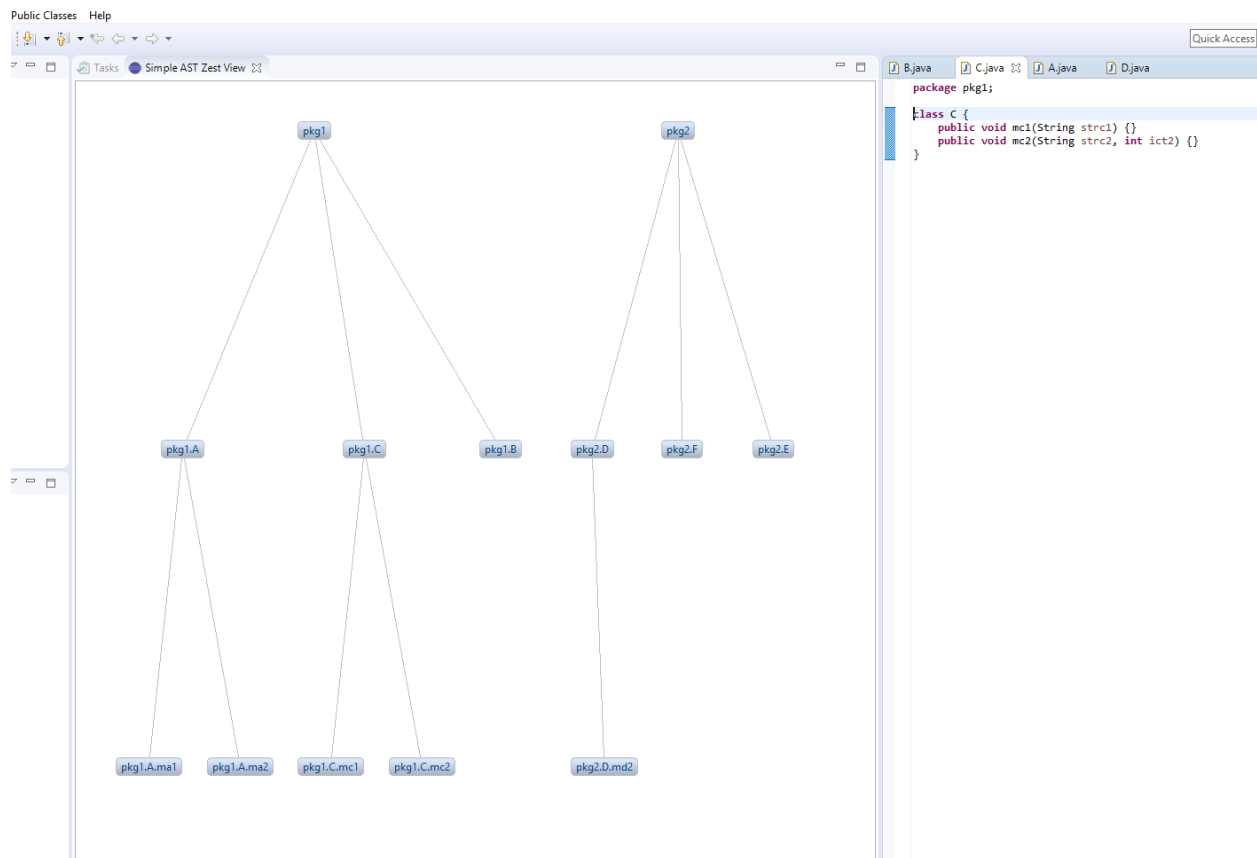
Solution:

The best way to create plugin is to use Eclipse RAP, which is a rich client application and Java based development.





These two snapshots above are attached to demonstrate how to develop plug-in in Eclipse environment. The missing ingredient is just Java file that converts outputs into appropriate formats. My idea is that when user clicks into one of the options, it will pop up window that will ask user to choose location to save the file. If one of the function works perfectly, others will be the same.



Package Explorer

- project001
 - src
 - pkg1
 - A.java
 - JRE System Library [JavaSE-1.8]

A.java

```
package pkg1;

public class A {
    private void ma14(int i) {
    }
    private void ma14d(int i) {
    }
    private void ma14dd(int i) {
    }
    private void ma14de(int i) {
    }
    private void pri(){}
}
```

Warning

You cannot delete this method because the method modifier is not public

OK

Simple Insert Delete AST Table

Search:

Package name	Class name	Method Name	isReturnVoid	Parameter size
pkg1	A	ma14	Yes	1
pkg1	A	ma14d	Yes	1
pkg1	A	ma14dd	Yes	1
pkg1	A	ma14de	Yes	1
pkg1	A	pri	Yes	0

These two screenshots above are my class projects, which is designed to analyze Java source code. The first one, it reads the Java package and presents it into AST tree. The second one does the same, but it presents into table form.

Conclusion:

Developing plugin to convert outputs into different format is something that can possibly done. Eclipse is a popular IDE for Java developers, therefore, with this plugin, it will be helpful for those who want to convert some text files.

About the author:

I'm currently undergrad student at University of Omaha Nebraska and major in Computer Science. My interest is Software development and machine learning. I'm looking for an internship to improve my coding skills. I mainly work with Java and Python. If you have any questions about my proposal, please email me at khtran@unomaha.edu