CMPE 202 - Personal Project

Java Source Parser & UML Diagram generator

Libraries Used:

1.   JavaParser:

The JavaParser library contains a Java Parser with AST generation and visitor support. The AST records the source code structure, javadoc and comments. It is also possible to change the AST nodes or create new ones to modify the source code. Different classes of this package were used to parse the java source code files and generate the input in a format required by plantuml.

URL: http://www.java2s.com/Code/JarDownload/javaparser/javaparser-1.0.9.jar.zip

2.   PlantUml:

PlantUML is an Open Source project that allows to quickly write and draw class diagrams, sequence diagrams, activity diagrams, state diagrams, etc. Diagrams are defined using a simple and intuitive language. For eg: Writing the definition of a class with its variables and member functions is as simple as below which gives the following diagram:

```
class A{
        -x:int
        -y:int[]
        -z:string
        +sayHello()
}
```


URL: http://sourceforge.net/projects/plantuml/files/plantuml.jar/download

Tools Used:

1.   Eclipse IDE:

It is a development environment for Java developers. As Java was used as the programming language for the development of this project, Eclipse IDE was used. It helped to include the above libraries in the project to parse the java source files and generate a UML class/sequence diagram.

Version: Mars Release (4.5.0)

2.   graphviz:

Graphviz is open source graph visualization software. Graph visualization is a way of representing structural information as diagrams of abstract graphs and networks. Plantuml requires graphviz installed so as to generate the diagrams. Version used : 2.38

URL: http://www.graphviz.org/Download..php