

CMPE 202 - Personal Project - UML Parser

Objectives:

In this project, you will be applying what you learned about UML Class Diagram by creating a Parser, which converts Java Source Code into a UML Diagram.

Libraries used:

```
import java.util.ArrayList;
import java.util.*;
import java.lang.*;
import com.sun.javadoc.*;
import java.io.*;
```

Tools:
PlantUML

Steps to Proceed:

1. Install JDK(latest version, say 1.8)
2. Set the Environment variables in Advanced Settings as:
JAVA_HOME = "C:\Program Files\Java\jdk1.8.0"
PATH = %JAVA_HOME%\bin
3. Create a working directory. Unzip the folder and copy the 'UMLParser' folder here.
There is another directory inside this directory, SourceFiles. Copy all the source java files to parse in this folder.
4. Install Graphviz for windows from

<http://sdntutorials.com/steps-to-install-plantuml-on-windows-7/>
(Step1)
5. Set the Environment Variables as:
GRAPHVIZ_DOT = "C:\Program Files (x86)\Graphviz 2.28\bin\dot.exe"
6. Download PlantUML from the Step 2 mentioned on the site and save it in the working directory(UMLParser).

7. Open command prompt :Go to the destination directory where the file is unzipped and run the commands given below:

Compilation: in classpath pass location of tools.jar file:

Sample Command-

```
javac -classpath "C:\Program Files\Java\jdk1.8.0_60\lib\tools.jar" Parser.java
```

Run below doskey command to create an alias for execution command:

```
doskey umlparser= java -classpath "C:\Program Files\Java\jdk1.8.0_60\lib\tools.jar;."
```

Parser \$*

Execution: Pass source directory name containing java files to parse and output file name to alias created above-

Sample Command:

```
umlparser SourceFiles ouput
```