

**CMPE-202
PERSONAL PROJECT
UML PARSER**

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Java UML Parser-

A UML parser which converts the given JAVA Source code into Class and Sequence Diagrams.

Instructions for Generating Class Diagram-

Requirements:

- Java JDK version 1.8
- Working internet connection (only for class diagram)
- plantUml.jar
- javaparser.jar

The program expects following arguments:

Keyword:

- “class” keyword is used to generate class Diagram while “sequence” keyword is used to generate Sequence Diagram.

Path:

- The path of the folder which contains the files with .java extension.
- Example
“/Users/sidgore/Desktop/workspace/uml-parser/Test-Cases/uml-parser-test-1”

Output file

- The name of output file without any extension.
- Here we are creating all the diagrams as .png files.
- Example – diagram

Example:- To generate class diagram

```
java -jar sid-umlparser.jar class  
/Users/sidgore/Downloads/downloads/paul-202-github/umlparser/uml-parser-test-4  
diagram
```

Now for Sequence Diagram-

Apart from the above two parameters following parameters are required.

Class Name

- The name of Class from which the execution starts.
- Example: Main

Method Name

- The name of method which is required to create Sequence Diagram.
- Ex - main

To generate sequence diagram

```
java -jar sid-umlparser.jar sequence  
/Users/sidgore/Downloads/downloads/paul-202-github/umlparser/uml-sequence-test  
Main main sequenceDiagram
```

Details of libraries and tools used

There are 2 parts of this UML parser program:

- JavaToString.java – Converts Source code into AST grammar which is understood by yUML.
- StringToUML.java– The code generated is converted into a Class Diagram using yUML.

Javaparser.jar :: <https://github.com/javaparser/javaparser>

This is an open Source library which is used to parse the source code into a code understood by yUML.

yUML: <https://yuml.me/diagram/scruffy/class/draw>

yUML is an online tool for creating and publishing simple UML diagrams. An Internet Connection is required to access this.

For generating the sequence diagram, plantUML is integrated in the code:
<http://plantuml.com/>

CMPE-281 Students
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Kelly Alvarez
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Youtube Links---

Suraj Ravindra Khurana-

<https://www.youtube.com/watch?v=JxjbekqHuqM&feature=youtu.be>

Kelly Alvarez

<http://youtu.be/MgPw1K4JQQs>

Amazon EC2 Instance-

<http://loadbal-6278516.us-west-2.elb.amazonaws.com/personalProject2/>

Username is SIDDHARTH

Password is SIDDHARTH

Enter the username and Password and select the required Test Cases .A Class Diagram will appear respective of the Test Case Selected.