

## CMPE202-Personal Project

### Introduction

Built a UMLParser that takes java code as an input and generates its UML class diagram as an output PNG file.

### Libraries and Tools:

#### JavaParser:

This UMLParser uses the following javaparser imports from GitHub:

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

com.github.javaparser.JavaParser

com.github.javaparser.ast.CompilationUnit

com.github.javaparser.ast.body.ClassOrInterfaceDeclaration

com.github.javaparser.ast.body.ConstructorDeclaration

com.github.javaparser.ast.body.FieldDeclaration

com.github.javaparser.ast.body.MethodDeclaration

com.github.javaparser.ast.visitor.VoidVisitorAdapter

#### YUml:

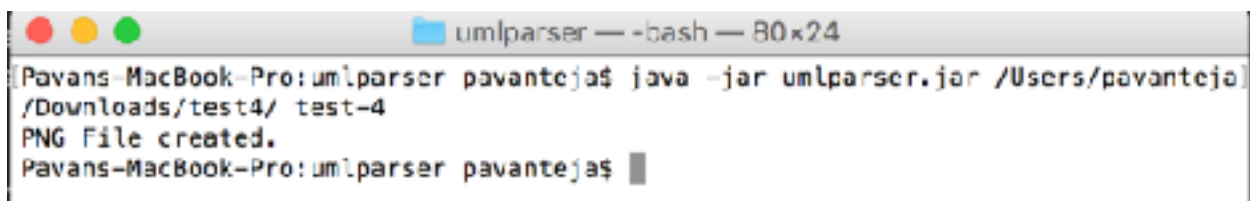
This Parser generates a distinct URL based on the input java test files. This URL will generate an image from the <http://yuml.me/> website.

### Steps to Execute:

JRE Requirements: JRE v1.5(Minimum)

1. Place the 'umlparser.jar' file in any folder/directory on the system.
2. Navigate to or open the terminal from that folder/directory.
3. Copy the complete path to the input java test files.
4. Enter the following command:  
`java -jar umlparser.jar <Complete Path to the test files> <Output filename>`
5. The PNG file should be generated in the same folder where the jar file resides.

Note: Do not provide any extensions to the output filename. PNG extension will be generated automatically.

A screenshot of a macOS terminal window titled 'umlparser — -bash — 80x24'. The prompt is '[Pavans-MacBook-Pro:umlparser pavanteja\$]'. The user enters the command 'java -jar umlparser.jar /Users/pavanteja/Downloads/test4/ test-4'. The terminal output shows 'PNG File created.' followed by the prompt '[Pavans-MacBook-Pro:umlparser pavanteja\$]' with a cursor.

```
[Pavans-MacBook-Pro:umlparser pavanteja$] java -jar umlparser.jar /Users/pavanteja/Downloads/test4/ test-4
PNG File created.
[Pavans-MacBook-Pro:umlparser pavanteja$]
```