

# UML PARSER

**Purpose:** - The application parses java source code and generates UML diagram for representing classes.

The application has following items :-

1. **JavaCodeParser** :- contains source code of uml parser application. Various parts in source code.
  - ➔ assets – contains libraries (external archives used in the application).
  - ➔ src – contains source code for the application.

dataModel :- contains classes to represent different parts of java compilation unit.  
main :- contains classes to parse java files and generate uml diagram.
2. **Test Classes** :- contains sample java code which is parsed to generate uml diagrams.
3. **Output** :- contains output uml diagrams for Test Classes. (For eg. “Output/uml1.png” for “Test Classes/TestCase1”)
4. **umlparger.jar** :- jar file for verifying the application

## Execution instructions

To verify code give following command.

`java -jar umlparger.jar <path of java source files> <output file name (.png or .jpg)>`

For eg : (Test Classes in the same folder as umlparger)

`java -jar umlparger.jar "./Test Classes/TestCase2" "uml2.png"`

It will create “uml2.png”.

## Details of libraries and tools used

*javaparser-1.0.9* :- for parsing the java source code and extracting information to create uml grammar

This library has various methods and classes to parse java source code and extract useful information regarding methods, data members, class types etc.

*plantuml* :- for generating uml diagram from uml grammar.

This is open source tool for generating uml diagram given a proper grammar.

