

UmlParser

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This project has been carried out to reverse engineer the existing java source into UML - Class diagram.

Tools & Libraries used:

1) JavaParser

- a. The JavaParser tool, which comes with AST generation and visitor support, is used to parse and analyze the java source code.
- b. The main component in the JavaParser is the `JavaParser.parse(filename)` which returns the `CompilationUnit` for that Java source file.
- c. With this `CompilationUnit` we can analyze the static declarations of fields and method definitions of the java source file.
- d. Furthermore, the relationships between classes can be analyzed and deduced by using the JavaParser APIs.

2) PlantUML

- a. The PlantUML tool allows the users to create UML diagrams from a simple textual description language.
- b. Additionally, the PlantUML requires the Graphviz installation to generate the class diagrams.
- c. The code should always begin with '@startuml' and end with '@enduml' markups and in-between these markups the code for describing the classes should go.
- d. Relations between classes are defined by the symbols:
 - i. Extends: --|>
 - ii. Implements: ..|>
 - iii. Association: --
 - iv. Dependency: ..>

External jar files used in the project:

1. javaparser-core-3.1.1-beta.1-SNAPSHOT.jar
2. plantuml.jar

For further instructions on how to run the project refer to the file - instructions.pdf