

Tools and Libraries used to build umlparser:

1) JavaCC

- JavaCC is a lexical analyzer generator and parser generator written in java language. It generates a parser from specified grammar. JavaCC can be used to parse an already existing language. One can even define his own language's parsing rules.
- JavaCC is not a parser or lexical analyzer but a generator. This means that javacc outputs parsers and lexical analyzers from the specifications it reads from file. It also generates a javacode for parser and lexical analyzer.
- JavaCC is a top-down parser unlike YACC.
- JavaCC is not only used to parse a language but also to extract specific components from the file which can be used later.
- JavaCC scans the input as tokens. Tokens are pre-defined sequence of characters which a developer specifies in his grammar file (.jj).
- The grammar files are easy to read, modify than most hand-written parsers.
- JavaCC uses the concept of LOOKAHEAD in case of ambiguity. LOOKAHEAD looks ahead of the ambiguous token to determine the next choice.
- More information can be found on :
<https://javacc.java.net/>
<https://javacc.java.net/doc/javaccgrm.html>

2) PlantUML

- plantUML is a component used to draw UML diagrams. It is a drawing tool and not a modeling tool.
- plantUML can be used as a plugin in variety of tools.
- It doesn't need explicit layouting.
- One can even customize the appearance of a diagram by defining various graphical options.
- When used as a plugin, it requires graphviz to view diagrams.
- Diagrams are defined using a simple and human readable language.
- More information can be found on:
<http://plantuml.com/>