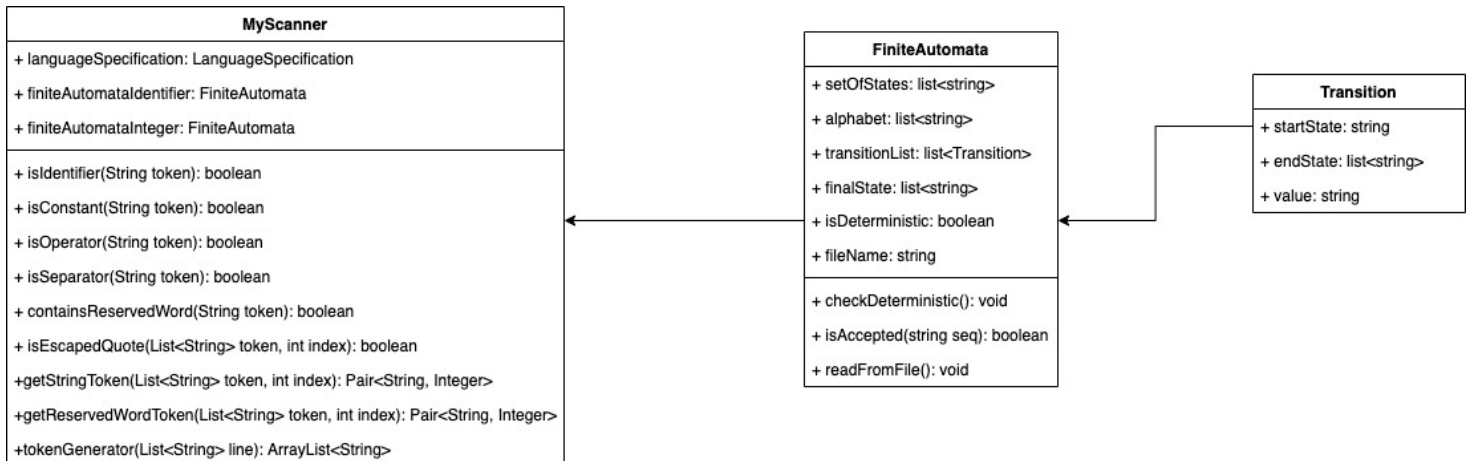


# Documentation

**Source code:** <https://github.com/diana-dr/Formal-Languages-and-Compiler-Design/tree/master/Lab4%20Final>



## FiniteAutomata

+ **isAccepted(string sequence)** - verifies if a given sequence is accepted or not by the FA - input: string sequence  
- output: true/false

+ **isDeterministic()** - verifies if the FA read from the file is deterministic or not  
- if the FA is deterministic => `isDeterministic = true`, `isDeterministic = false` otherwise

+ **readFromFile()** - reads the data of the FA from the input file fa.txt

## Transition

- `startState : String`
- `value : String`
- `endState : List<String>`

## EBNF notation

input = stateSet "\n" alphabet "\n" transitions "\n" finalState

stateSet = state | state stateSet

state = (letter | digit | "\_") | (letter | digit | "\_") state

alphabet = character | character, alphabet

character = any UTF-8 character

transitions = transition | transition "\n"

transitions transition = state, character, state

finalState = state