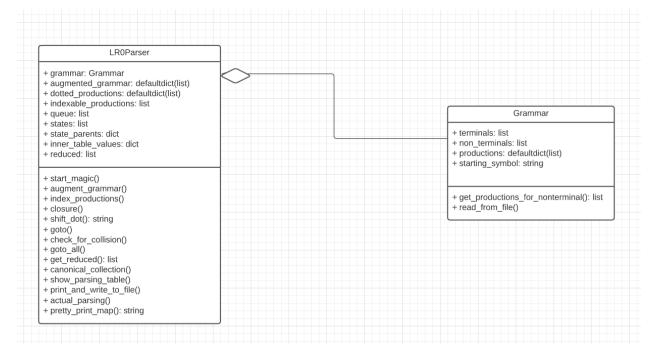
https://github.com/BrejeMihai/FLCD Lab08



Documentation available also on the repository

```
def __init__(self):
    self.terminals = []
    self.non_terminals = []
    self.productions = defaultdict(list)
    self.starting_symbol = ""

def __str__(self):
    pass

"""
    summary: Gets all productions for a specified non_terminal
    :param non_terminal: string corresponding to an existing non_terminal
    :return: a list of all the productions of the given non_terminal
    """
    def get_productions_for_nonterminal(self, non_terminal):
        pass

"""
    summary: Reads a grammar from a file
    :param path: path to the grammar file
    :return: void, modified Grammar object
    """
    def read_from_file(self_path):
    pass
```

```
class Lr@Parser(object):
       self.non_terminals = grammar.non_terminals
       self.productions = grammar.productions
       self.starting_symbol = grammar.starting_symbol
       self.dotted_productions = None
   summary: Entry point of the parser, augments grammar and creates the initial closure
   def start_magic(self):
   def augment_grammar(self):
   def indexable_productions(self):
   def closure(self, element, closure_history, transition_history):
```

```
def shift_dot(self, transition_ref):
def goto(self, initial_transition, key, state, parent=-1):
def check_for_collision(self, value, where, new_value):
```

```
Summary: Function which will call goto for all the next states, creates new states and populate the parsing / table, also checks for collision

:param state: the beginning state
:param initial_dotted: the augmented grammar at first, the shifted transition after
:param parent: the parent "key"
:param parent_transition: transition corresponding to the parent key
:return void, modified attribute "state" and "inner_table_values" of the object
"""

def goto_all(self, state, initial_dotted, parent=-1, parent_transition="-1"):
    pass
"""

summary: Gets all the states that are reduced
:return list: a list of all reduced states
"""

def get_reduced(self):
    pass

"""

summary: Implementation of the canonical collection function
:return void, modified attributes "inner_table_values", "queue", "state_parents", "states" of the object
"""

def canonical_collection(self):
    pass

"""

summary: Util function to print the parsing table
:return void, modified stdout and file
"""

def show_parsing_table(self):
    pass
```

```
def print_and_write_to_file(self, string, file_handle):
def actual_parsing(self, word):
def pretty_print_map(self, map, message=None):
```