Описание грамматики языка задания грамматики

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1 РБНФ

TERMINALS:
name ::= '[\w\D][\w]*';
char_sequence ::= '[\W\S^']+';
string ::= ''(\\.|[^\\']+)*''.

KEYS:
'TERMINALS'; 'KEYS'; 'NONTERMINALS'; 'AXIOM'; 'RULES'; 'ERRORS';
'.'; ':'; '::='; ';'; '('; ')'; '|'; '['; ']'; '{'; '}'; '#'.

NONTERMINALS:
GRAMMAR;
TERMINALS_BLOCK;
KEYS_BLOCK;
NONTERMINALS_BLOCK;
AXIOM_BLOCK;
ERROR_BLOCK;
RULES_BLOCK;
RULE;
RHS.

AXIOM: GRAMMAR.

ERRORS:
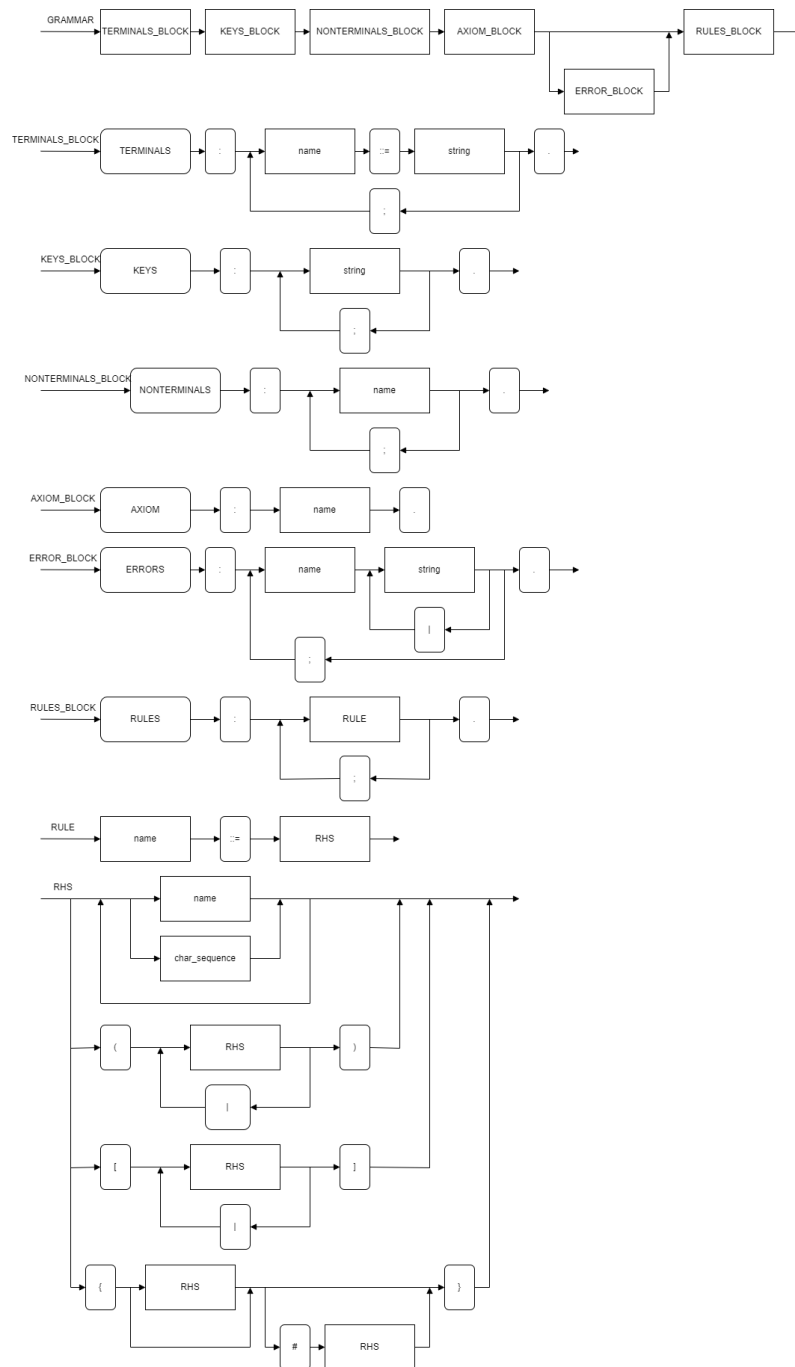TERMINALS_BLOCK '.';
KEYS_BLOCK '.';
NONTERMINALS_BLOCK ' .';
AXIOM_BLOCK '.';
ERROR_BLOCK '.';
RULES_BLOCK '.';
RULE ';' | '.';
RHS ';' | '.'.

RULES:
GRAMMAR ::=
      TERMINALS_BLOCK KEYS_BLOCK NONTERMINALS_BLOCK
      AXIOM_BLOCK [ERROR_BLOCK] RULES_BLOCK;
TERMINALS_BLOCK ::= TERMINALS: {name ::= string # ;}.;
KEYS_BLOCK ::= KEYS: {string # ;}.;
NONTERMINALS_BLOCK ::= NONTERMINALS: {name # ;}.;
AXIOM_BLOCK ::= AXIOM: name.;
ERROR_BLOCK ::= ERRORS: {name {string # |} # ;}.;
RULES_BLOCK ::= RULES: {RULE # ;}.;
RULE ::= name ::= RHS;
RHS ::=
      {name | char_sequence} |
      ({RHS # |}) |
      [{RHS # |}] |
      {[RHS] [# RHS]}

2 Диаграммы Вирта

3 Метамодель