CoolSteal

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Models

Program
- id long
- name String
- sourseCode String
- normalizeCode String
- shingleSet Set<String>
- tokenSet Vector<String>
- ownerId long
- date Date
- lang String

+ get() "getters"
+ set() "setters"

PlagiasmResult
- shingleMethod int
- levanstainMethod int
- operatorPlagiasm int
- mostSimilarResultId int

+ getters

Token
- type TokenType
- data String

+ Token(TokenType,String)
+ getType() TokenType
+ getData() String

PlagiasmCheackerClient(interface)

+checkPlagiasm(int id, List<string>
&&fileName)   PlagiasmResult
+ void Subscribe(void (*Handler)(uint ID));

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httpServer

+ getConnection()
+ Server()
+ ~Server()

1

Router

+ Router()
+ parseReqest()

1

Normalizator

+ Normalize(const Program) String

1

PlagiasmChecker

+checkCodewithDB(Program)
PlagiasmResult

LexUtils

OperatorSet
- Set<String> keywords

+ OperatorSet()
+ isToken(String) bool

VatiableSet
- Set<String> keywords

+ VariableSet()
+ isToken(String) bool

Token
- type TokenType
- data String

+
Token(TokenType,String)
+ getType() TokenType
+ getData() String

enum TokenType
KEYWORLD
VARIABLETYPE
NUMBER
IDENTIFICATOR

TokenSet(abstract)
- Set<String> keywords

+ isToken(String) bool

extends

JavaKeyWords
- Set<string> keywords

+ JavaKeyWords()
+ isToken(String) bool

CKeyWords
- Set<string> keywords

+ CKeyWords()
+ isToken(String) bool

extends   extends

Lexer
- TokenSet keyWords
- TokenSet operators
- TokenSet variables

+ Lex(const Programm) vector<Token>

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+ get() "getters"
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DBManager
-conn Connection

+ addProgramm(Program)
+ getProgramm(long id)
- DBClient()

DBClient

+ run(DBCommand)
+ get()
+ ~DBClient

DBSender
+ DBSender() "connection"
+ sendMessage(string)
- ~DBSender()

-dbConnection

sql command

Database

Loop.
Find Plagiasm

DBCommand
+ getCommand()
+ DBCommand()
- ~DBCommand()

- Command string

Methods

PlagiasmChecker(abstract)

+Check(Program,const Program) int

ShingleChecker

+ ShingeChecker()
+Check(Program,const Program) int

LevenstainChecker

+ LevenstainChecker()
+Check(Program,const Program) int

OperatorMetricksChecker

+ OperatorMetricksChecker()
+Check(Program,const Program) int