Model::Main

HackMap

-keywords: map

+get_keyword(Keyword): string

CompilationEngine

+output_engine: OutputEngine
+tokenizer: Tokenizier

+CompilationEngine()
+compileLet(): void
+compileIf(): void
+compileWhile(): void
+compileReturn(): void
+compileDo(): void
+compileExpression(): void
+compileTerm(): void
+compileExpressionList(): void
+compileClass(): void
+compileClassVarDec(): vodi
+compileType(): void
+compileSubroutineDec(): void
+compileParameterList(): void
+compileSubroutineBody(): void
+compileVarDec(): void

«enumeration»
TokenType

KEYWORD
SYMBOL
INT_CONST
STRING_CONST
IDENTIFIER

Tokenizier

-tokens_queue: queue<string>
-fileinput: ifstream
-in_comment_block: bool
-current_token: string

+has_more_tokens(): bool
+advance(): string
+token_type(): TokenType
+keyword(): Keyword
+symbol(): char
+identifier(): string
+string_val(): string
+int_val(): int

«enumeration»
Keyword

CLASS
METHOD
CONSTRUCTOR
INT
BOOLEAN
CHAR
VOID
VAR
STATIC
FIELD
LET
DO
IF
ELSE
WHILE
RETURN
TRUE
FALSE
NULL
THIS

OutputEngine

+output_file: ofstream
+Attribute1

+OutputEngine()
+writeLet()
+...()