GroupAss1/Structural Modelling

TypeFinder

referenceCount: int
declarationCount: int
DEBUG: boolean
javaType: String
directory: String
+outputString: String

+main(arg: String[]):void
+run(args: String[]):void
+parse(str: String): void
+readFileToString(filePath: String): void
+parseDirectory(filePath: String): void

O..*

org.eclipse.JDT.core.dom

ASTParser

+newParser(jls_ver: int): ASTParser
+setKind(construct_type: int): void
+setSource(source_Code: String): void
+setResolvedBindings(enabled: boolean) : void
+createAST(null):ASTNode

ASTVisitor

+endVisit(node:): Void
+visit(node: VariableDeclarationFragment): Boolean
+visit(node: ClassInstanceCreation): Boolean
+visit(node: MethodInvocation): Boolean
+visit(node: AnnotationTypeDeclaration): Boolean
+visit(node: TypeDeclaration): Boolean
+visit(node: EnumDeclaration): Boolean
+visit(node: MethodDeclaration): Boolean
+visit(node: ImportDeclaration

O..*

contains
Parsed source
code

Compilation Unit

ASTNode

+accept(visitor: ASTvisitor):
void <<final>>

AnnotationTypeDeclaration

O...

TypeDeclaration

ImportDeclaration

VariableDeclarationFragment

EnumDeclaration

...

ClassInstanceCreation

MethodInvocation

MethodDeclaration

<<Throws IOException>>

java.lang.exception