

Program designed to count declarations and references of a specified javaType from a specified pathname .

Creates AST from filecontent provided by AnalyzerAssignment1 after setting map options, parser options, etc

ASTParser creates an AST with ASTNodes representing the filecontent

visits ASTNode(s) to get number of declarations and references to the specified javatype

AnalyzerAssignment1

ASTParser

ASTNode

ASTVisitor

pathname and javatype provided from user to AnalyzerAssignment as source code

If contents of directory are null,system exits from main

Sequence Diagram

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Sunah

Kris

main throws IOException, FileNotFoundException and checks command line arguments to see if length of arguments is > 1 . if it isnt, it prints an error message. If it is, it sets the arguments to pathname and java type, displays these values in a message, and calls accessContentsOfADirectory

accessContentsOfADirectory throws IOException if path doesn't exist, attempts to only get the files that have a .java extension and it also checks if the directory exists. if it does, parse() is called. File[] contentsOfDirectory is returned

readFileToString throws IOException, FileNotFoundException , reads file content into a string to return.

ASTParser object created

AnalyzerAssignment1 provides filecontent for ASTParser

ASTParser settings and map options set:
parser.setSource/
parser.setKind/
JavaCore.getOptions/
etc.

createAST

ASTNode created (possibly multiple)

return

ASTVisitor object created

node provided to ASTVisitor

accept method called. accepts ASTVisitor

visit method called . ASTVisitor visits the ASTNode

return

gets information about node of specified javatype (number of declarations and references) and prints it

Program ends

returns