README.md

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What smartExpander does?
smartExpander is a tool for suggesting whether abbreviations are used properly, i.e., whether they should be replaced with corresponding full terms.

How to get started?
/MCParser: The Java implementing of smartExpander.
testDataAndCommand.csv: Testing data to replicate the evaluation in the paper

How to use smartExpander? (as a reusable tool)
1. Download the implementation and testing data:

git clone git@github.com:jiangyanjie/smartExpander.git

2. Switch to the folder where *.class files are:

For example, "cd smartExpander\MCParser\out\production\MCParser"

3. Test smartExpander with a single abbreviation:

java FindCasualNames.main.smartExpander abbr identifier contexts typeOfIdentifer expansion projectName

where abbr is the abbreviation to be tested; identifier is the identifer containing the abbreviation; contexts is the contexts of the abbreviations (i.e., identifiers sourrounding the abbreviations; typeOfIdentifer is the type of the enclosing identifier (e.g., variable name or method name); expansion is the full terms of the abbreviation; projectName is the name of the enclosing Java project.

An illustrating example: java FindCasualNames.main.smartExpander nf nf file#jsmooth#model#persistency#make#path#relative#if#possible#root variableName new file davmail

4. Expected Output for the execution:

"True": if the abbreviation should be expanded

"False": if the abbreviation should not be expanded

How to replicate the evaluation?

1. Open testDataAndCommand.csv

Each row of the table (except for the first row) represents a testing item (abbreviations).

2. To test the abbreviation on the ith row, copy the testing command on the last row Java Command 2 Test This Item, execute the commond, and check the results againt the value on row Necessity4Expansion(Prediction).