Refactoring Report 004

Refactoring ID: 004
Title: Enhance the logic structure of loading documents
Date: 2014/10/27
Vender: Acumen   **Product**: News Classification & Recommendation
Platform: All platform it supports
PIC: FANG Zhou

Situation (Code Smell):
- Document loading needs to specify whether it is a document or a folder

Refactoring Plan:
- Add a method to automatically add word to common word dictionary if it appears in all documents

Diff:
Original
```
public IO(String infile, boolean isFolder){
    if(isFolder)
        this.isfolder=isfile;
    else
        this.isfile=isfile;
    this.words=new String[MAX_WORDS_NUMBER];
    this.index=0;
}
```

Updated
```
public String [] processDocument(){
    File inputFile = new File(inputPath);
    if(!inputFile.exists())
        return new String[0];

    if(inputFile.isDirectory()){
        File[] subFiles = inputFile.listFiles();

        for(File singleFile : subFiles){
            readAndFilter(singleFile);
        }
    }else{
        readAndFilter(inputFile);
    }
}
```