

Code Anonymizer (30039391) Deployment Guide

Revision History

| Author | Revision Number | Date |
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Deployment Instructions

1. Organization of Submission

Folders:

- app: NodeJS application
- ReadMe.doc : this doc.

Video files:

PT.1 : <https://www.dropbox.com/s/2xq8n3q7m6uv8c6/pt1.swf>

PT.2 : <https://www.dropbox.com/s/5as35lxgk1rlctl/pt2.swf>

If you have problems watching the files please contact me.

2. Application Setup

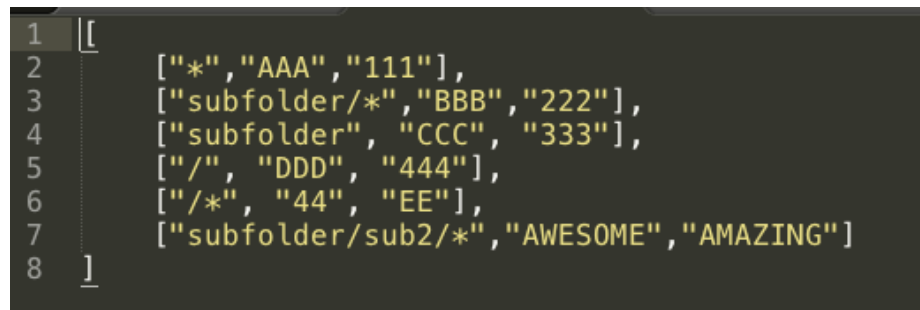
No configuration needed. Simply take care that the **bin/smart-anonymizer** file is executable.

This is the structure of the mapping json file:

```
[  
  [ 'folders/and/or/wildcard' , 'from-replace' , 'to-replace' ],  
  . . .  
]
```

Where “folder” could be a valid local folder (es. “/” or “folder/subfolder”) or you can you wildcards (es. “*” or “folder/*” or “folder/subfolder/*”).

This is a valid example (see the “test-folder/mapping” folder in the project folder):



```
1  [  
2    ["*", "AAA", "111"],  
3    ["subfolder/*", "BBB", "222"],  
4    ["subfolder", "CCC", "333"],  
5    ["/", "DDD", "444"],  
6    ["/*", "44", "EE"],  
7    ["subfolder/sub2/*", "AWESOME", "AMAZING"]  
8  ]
```

In the “test-folder/source” folder you can see some example source files.

Install the needed packages with “npm install” before executing the script.

3. Starting

Call the main script in this way:

```
$ ./bin/smart-anonymizer -h
```

And this is the output:

```
MacBook-Air-di-Enrico:app enreeco$ ./bin/smart-anonymizer -h
usage: smart-anonymizer [sourceDir] [destinationDir] [mappingFilePath] (options)
Options:
    -r : reverse mapping (default off)
    -i : case insensitive (default off)
```

```
-h, [--help] # Show this help message and quit
```

```
-v, [--version] # Show current version
```

To get the version of the script:

```
$ ./bin/smart-anonymizer -v
```

```
MacBook-Air-di-Enrico:app enreeco$ ./bin/smart-anonymizer -v
Smart Anonymizer v.0.1.0
```

This is the version of the “package.json” file.

To call the script:

```
./bin/smart-anonymizer "./test-folder/source" "./test-
folder/destination" "./test-folder/mapping/mapping.json" -i
```

This is the output:

```
MacBook-Air-di-Enrico:app enreeco$ ./bin/smart-anonymizer "./test-folder/source" "./test-folder/destination"
"./test-folder/mapping/mapping.json" -i
    Reading source file ./test-folder/source/file - Copia.txt
    Writing destination file ./test-folder/destination//file - Copia.txt
    Reading source file ./test-folder/source/file.txt
    Writing destination file ./test-folder/destination//file.txt
    Reading source file ./test-folder/source/subfolder/file.txt
    Writing destination file ./test-folder/destination//subfolder/file.txt
    Reading source file ./test-folder/source/subfolder/sub2/file.txt
    Writing destination file ./test-folder/destination//subfolder/sub2/file.txt
Replacing rule application completed. See files in ./test-folder/destination
```

That is a replace from the source to the destination folder given the mapping.json file and in “case insensitive” way.

To make a “reverse” replacement:

```
./bin/smart-anonymizer "./test-folder/destination" "./test-folder/back"
"./test-folder/mapping/mapping.json" -i -g
```

```
MacBook-Air-di-Enrico:app enreeco$ ./bin/smart-anonymizer "./test-folder/destination" "./test-folder/back"
"./test-folder/mapping/mapping.json" -i -g
    Reading source file ./test-folder/destination/.DS_Store
    Writing destination file ./test-folder/back//.DS_Store
    Reading source file ./test-folder/destination/file - Copia.txt
    Writing destination file ./test-folder/back//file - Copia.txt
    Reading source file ./test-folder/destination/file.txt
    Writing destination file ./test-folder/back//file.txt
    Reading source file ./test-folder/destination/subfolder/file.txt
    Writing destination file ./test-folder/back//subfolder/file.txt
    Reading source file ./test-folder/destination/subfolder/sub2/file.txt
    Writing destination file ./test-folder/back//subfolder/sub2/file.txt
Replacing rule application completed. See files in ./test-folder/back
```

Using the “-g” argument, the mapping is reversed (so what you will find on the “back” folder will be the exact match of the “source” folder).

If you don't specify argument, the “-h” call will rise; if one of the folders doesn't exist:

Source directory `"/test-folder/xxxxxxx"` not found.

If the mapping JSON is not in a correct format:

Mapping file `"/test-folder/mapping/mapping.json"` has not a valid JSON format.

4. About the code

The `"/bin/smart-anonymizer"` file is an executable file that calls the `"/main.js"` script.

The nodejs app is based upon 2 external libraries:

- **walk** : to walk through the folders
- **mkdirp** : to create recursively in one shot all the folders needed when creating the “replaced” files

5. Resource Contact List

| Name | Resource Email |
|------------------------------|------------------------|
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