FileWordCharInfo Project

Purpose and scope

This simple application try to analyze content of a pure text file locally or remotely (http) provided by counting words, spaces, letters and word repetition with a certain level of attention about large files, in fact, it tries to analyze the file while reading it.

Changelog

- 0.1:
 - Very first version

Dependencies

- Node js version >= 20.0.0
- yarn 1.22

Installation

Just execute yarn to fetch dependecy packages,

Usage

Just run yarn start --file <File path/URL> --config

Command line arguments

- -h --help -> display help and exit
- -f --file <File path/URL> -> define source file (required)
- -c --config -> use selected configuration file.

Test

A litte set of unit tests based on **jest** is located in the **__tests__** folder.

To execute tests just run yarn test

During tests all logs are displayed even if configuration are differently set.

Configuration

Default configuration file is located at **config/config.json** path.

Configuration example:

```
{
    "global": {
        "minLogLevel": "INFO"
},
    "wordCharAnalyzer": {
        "minWordRepetition": 10,
        "hypenChar": "-",
        "removePunctuation": false,
        "wordPattern": ".*[a-zA-Z0-9]+.*"
}
```

- **global** section is exported at global scope.
 - minLogLevel -> defines minimum log severity to display: one of 'EMERGENCY', 'ALERT',
 'CRITICAL', 'ERROR', 'WARNING', 'NOTICE', 'INFO', 'DEBUG'
- wordCharAnalyzer section contains program functionalities related options
 - **minWordRepetitions** -> (required) when result is displyed, only words repeated at least this times value are shown
 - **hyphenChar** -> (optional) if present this value is used to try to recontruct hyphenated words
 - removePunctuation -> (optional) if true all punctuation chars are removed from words
 - wordPattern -> (optional) just "define your own word". If present it defines what a word is to avoid counting groups of punctuation chars (for example)