

## **BUSINESS LOGIC BEHIND nodewc COMMAND**

- **index.js** - Main file which decodes the terminal command and check which options out of -c, -m, -w, -l , -L has been used.
  - Adds **flag\_array** with **flags** as mentioned in **package.json** and read by using **config** package.
    - -c --bytes has the flag 1.
    - -m --chars has the flag 2.....and so on.
  - Calls **processfile** function from another module **readfile.js** inside **modules directory** to read the file and do the operations on it.
- **readfile.js** - Intermediate module which reads the file synchronously, converts its content to string and calculates the string's length.
  - Makes calls to methods of class **operations** in **operations.js** inside **modules** directory based on the flag values in **flag\_array** as passed from **index.js** mentioned earlier.
- **operations.js**- The last gateway to execute the command. It is a class containing methods that has to be executed according to the flag passed from **readfile.js**.
  - **Class members** -
    - **contents** - content of the file passed from **readfile.js**
    - **contents\_length** - length of the string form of the file content.
    - **split\_content** - file content split by '\n' means array of all the lines in the file content.
    - **result\_buffer**- array containing results from all the functions that execute so that results of all functions can be displayed at once.
  - **Class methods** -
    - **bytecount** - length of contents of the file read.
    - **charcount** - number of characters in the file read.
    - **wordcount** - number of words in the file read
    - **linescount** - number of lines in the file read.
    - **longestline** - length of longest line in the file read.