*TECHNICAL DOCUMENTATION*

This program contains four modules, one is the main execution program and the other three were made to satisfy different needs:

***MAIN.PY***

Is the core of the program, it captures the execution arguments and extracts the header information from the file.

In this file, the program calls all other modules to write in different output file formats (JSON only is implemented for this case)

***WRITEOUTPUTFILE.PY***

This module was created to write header, body and ending of output file.

The current implementation is only for JSON files, but with this approach you can easily use different formats. You will only have to use a different parameter when executing, adding your format to this file (only one line of code), and develop the logic for you new output file format.

***WRITEJSON.PY***

This module contains the logic to write header, body and ending of the output JSON file.

As mentioned in the previous module, if you want to have a different output format, you will have to create a file like this one for your new format (XML, YAML, etc.) ,and then call it in WRITEOUTPUTFILE.PY

***VALIDATIONS.PY***

This module validates the records from the input file.

Current implementation validates that:

- there are no negative numbers

- there are no hotel ratings outside 0-5 range

- URL is valid (valid URL definition will be defined next)

- hotel name contains UTF-8 characters only.

**VALID URL DEFINITION**

For validation purposes, we will define that a URL is valid when:

* It starts with http:// or https://
* It ends with a letter or a ‘/’
* It doesn’t have any special characters inside

**NORMAL EXECUTION EXPLANATION**

Once you execute the file as specified in readme.txt, you will see this legend in your screen: “Processing hotels.csv input file...”.

After a few seconds, execution will be completed and you will read “File Processing is finished. Output can be found in <outputFile>”.<outputFile> being the filename you specified when executing.

All rejected records because of validation rules will be recorded in rejectedRecords.csv file