Technical document for File Name Validator

Potential Problems:

Case 1: (solved)

File doesn’t exit, or the given location is a folder.

Case 2: (solved)

There are spaces before or after the input location string.

Case 3: (solved)

The file doesn’t have extension. Add test file “csv”.

Case 4: (solved)

There are more than one dots in the file name. Add test file “abc.tar.gz” and “abc.tar.csv”

Case 5: (solved)

The file name is less than 3 parts. E.g. Test\_A.csv.

Case 6: (solved)

The file name is more than 4 parts. E.g. Test\_A\_07121987\_01\_aaa.csv.

Case 7:

The prefix is not “Test”. E.g. Hello\_A\_07121987.csv

Case 8:

The portfolio code is not “A”, “B” or “C”. E.g. Test\_E\_07121987.csv, Test\_AB\_07121987.csv

Case 9:

The date is invalid. E.g. Test\_A\_07121a87.csv, Test\_A\_0712187.csv, Test\_A\_32121987.csv, Test\_A\_07131987.csv. Test\_A\_13121987.csv.

Case 10:

The sequence number is invalid. E.g. Test\_A\_07121987\_1.csv, Test\_A\_07121987\_123.csv,

Test\_A\_07121987\_aa.csv.

Technical problems and solution:

1. String.split(“.”) doesn’t work

Solution: <https://stackoverflow.com/questions/14833008/java-string-split-with-dot>

The splitting on the regex . means "any character".

The correct format: String.split(“\\.”);

1. Date format

Solution: <https://stackoverflow.com/questions/2149680/regex-date-format-validation-on-java>

Combine REGEX and SimpleDateFormat.

1. Regex: the punctuation

Solution: <https://www.regular-expressions.info/unicode.html>

\p{P} or \p{Punctuation}: any kind of punctuation character.