Assignment 1

This is the "read me" documentation for assignment 1. It explains how to execute the three systems and contains a guide to the organization of source code.

How to execute the systems

In short

On Windows(x64):

Double click the AlUI.exe inside the distribution folder On OS X:

```
chmod +x distribution/runSystem*.sh
./distribution/runSystemA.sh
./distribution/runSystemB.sh
./distribution/runSystemC.sh
```

In detail

The three systems (system A, B and C) are already built and are placed in the distribution folder. See systemA.jar, systemB.jar and systemC.jar. All three files are executable java jars that would expect one argument when you run it: the absolute file path of the distribution folder. The folder contains the input files (already there) and will be used to output the result.

In addition, to avoid run time issues, the distribution folder also contains Java runtimes for Mac OS X and Windows (x64).

Assuming \$P is the file path to the distribution folder. To run the system manually on Windows (x64):

```
distribution/jre/Windows/bin/java.exe -jar distribution/systemA.jar $P distribution/jre/Windows/bin/java.exe -jar distribution/systemB.jar $P distribution/jre/Windows/bin/java.exe -jar distribution/systemC.jar $P To run the system manually on Mac OS X:
```

```
distribution/jre/osx/Contents/Home/bin/java -jar distribution/systemA.jar $P
distribution/jre/osx/Contents/Home/bin/java -jar distribution/systemB.jar $P
distribution/jre/osx/Contents/Home/bin/java -jar distribution/systemC.jar $P
```

Guide to source code

The source code are separated into four folders: common, systemA, systemB and systemC.

- common contains the filter framework, shared filters and utilities.
- systemA contains filter and plumber specific to system A.
- systemB contains filter and plumber specific to system B.

• systemC contains filter and plumber specific to system C.

For each folder, source code are located under src/main/java.

The main class for system A, B and C are:

- systemA/src/main/java/system/SystemAPlumber.java
- systemB/src/main/java/system/SystemBPlumber.java
- systemC/src/main/java/system/SystemCPlumber.java

To get started, the filter frameworks are located in common/src/main/java/framework folder.