Assignement 1: KWIC-KWAC-KWOC

Code Repository URL: `https://github.com/lewishn/KWIC.git`

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1. Introduction

2. Design

The design of the program is as followed: There is a main class called TextProcessor which waits for input and calls the Action class that the user enters. All classes that should be executed by TextProcessor have to inherit the Action-Interface that provides a method called execute(). For the task in this assignment we provided a class KWIC that inherits the Action interface and implements the execute-Method. The KWIC class itself contains the execute-Method, a method getKWIC which first rotates the String array then sorts it alphabetically and then saves the results into a text file.

We also implemented a simple text file reader and writer that can be used for extended classes as well. The class diagram of our program is shown in figure 1.
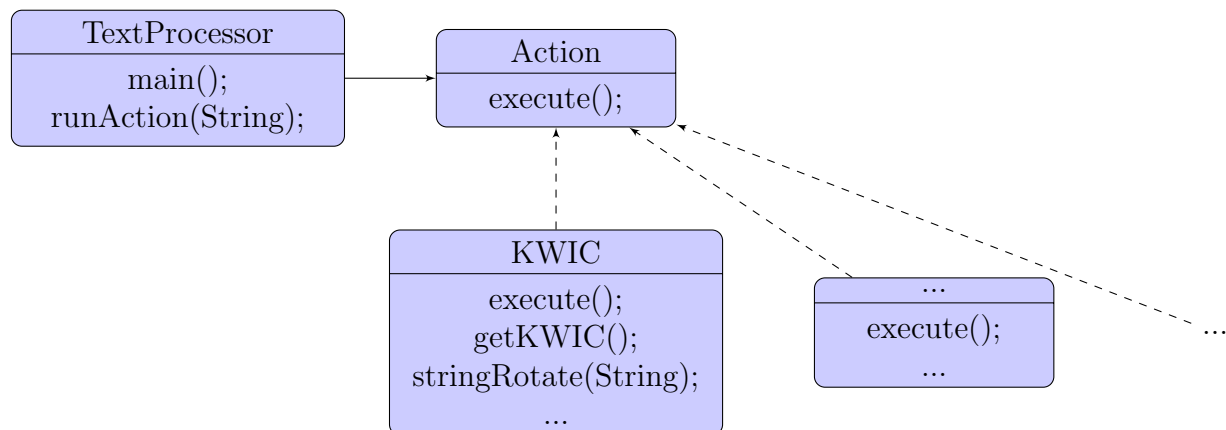

Figure 1: Diagram of the program structure.

3. Limitations and Benefits