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KWIC_Archillects

KeyWord-In-Context (KWIC) system - Software Design and Architecture Activity

The KWIC index system accepts an ordered set of lines; each line is an ordered set of words, and each word is an ordered set of characters. Any line may be “circularly shifted” by repeatedly removing the first word and appending it at the end of the line. The KWIC index system outputs a list of all circular shifts of all lines in alphabetical order.

KeyWord-In-Context (KWIC) system

input: strings, each of which consists of several words.

output: a sorted list of all orderings of each input string.

Example of KWIC operation

- **input**
“Clouds are white.”
“Pittsburgh is beautiful.”
- **output**
are white clouds
beautiful pittsburgh is
clouds are white
is beautiful pittsburgh
pittsburgh is beautiful
white clouds are

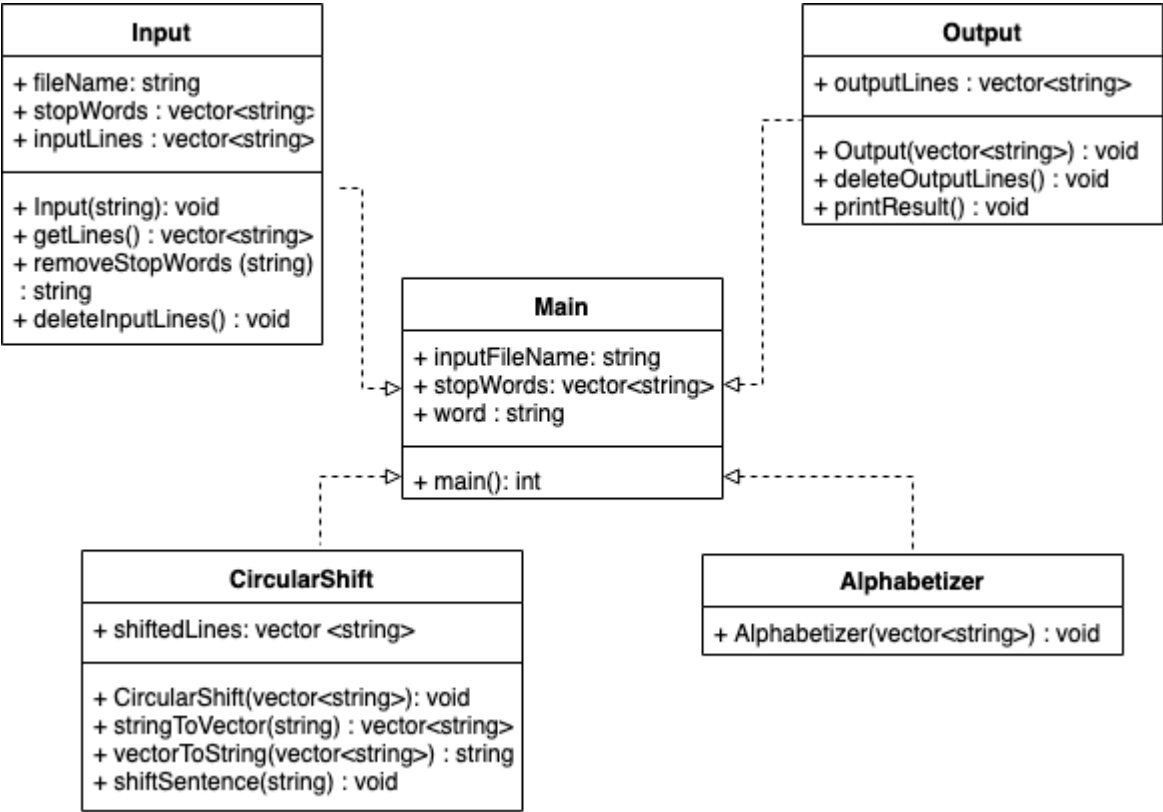
Version 2

Update:

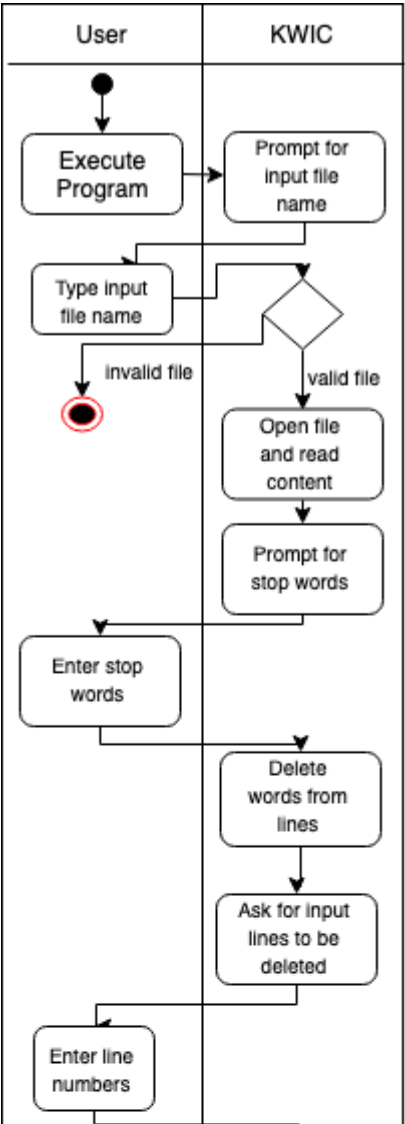
- Allows the user to enter a list of stop words (words to be deleted from lines)
- Select which type of sorting (ascending or descending)
- Delete lines from input
- Delete lines from output

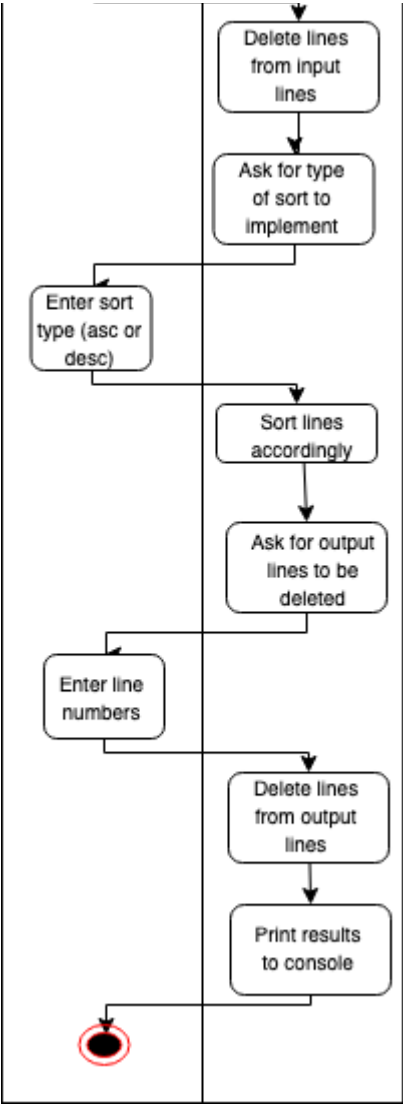
Software Architecture

Logic View

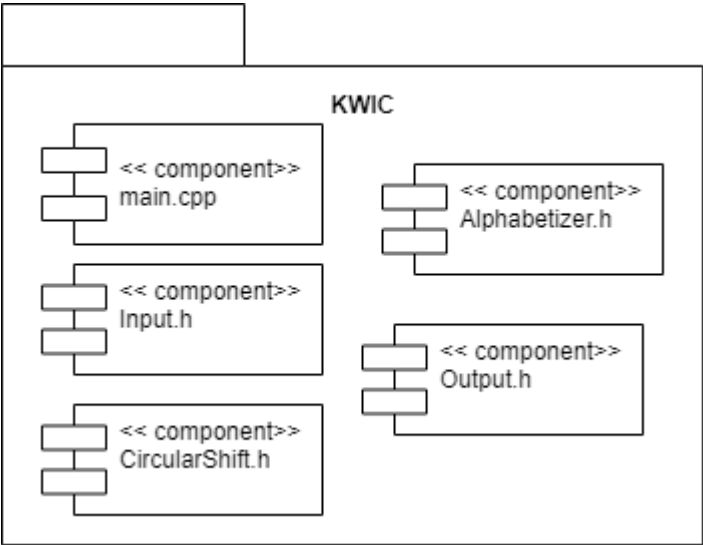


Process View

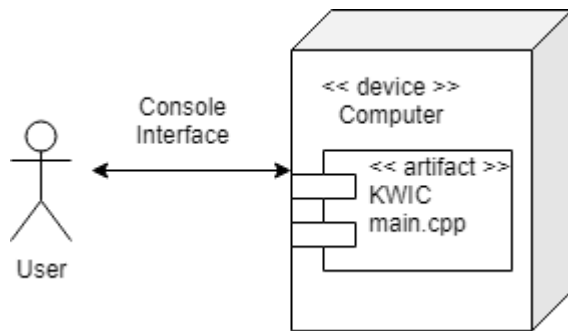




Development View



Physical View



Scenario View

How to Run

Compile and run from terminal

```
g++ main.cpp -o KWIC
./KWIC
```

Write input

```
example.txt
```

Enter stop words.

Type "end" to finish stop words.

```
white
end
```

Enter lines from input to delete.

Type "-1" to finish.

```
0
-1
```

Select which kind of sort

(Ascending order = 0, Descending order = 1)

```
0
```

Enter lines from output to delete.

Type "-1" to finish.

```
-1
```

Result

```
~/Documents/ITC_10/Arquitectura/KWIC_Archillects — -bash
[MBP-de-Abril:KWIC_Archillects abrilgonzalez$ ./KWIC

Enter file name:
example.txt

Enter stop words.
Type "end" to finish stop words.
white
end

Which line numbers do you want to delete from the Input? Indexing from 0 to n
Type "-1" to finish line numbers.
1
-1

Please select which type of sort.
Sort ascending = 0, sort descending = 1
0

Which line numbers do you want to delete from the Output? Indexing from 0 to n
Type "-1" to finish line numbers.
-1

Final output:
are clouds
clouds are

Goodbye!
```