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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

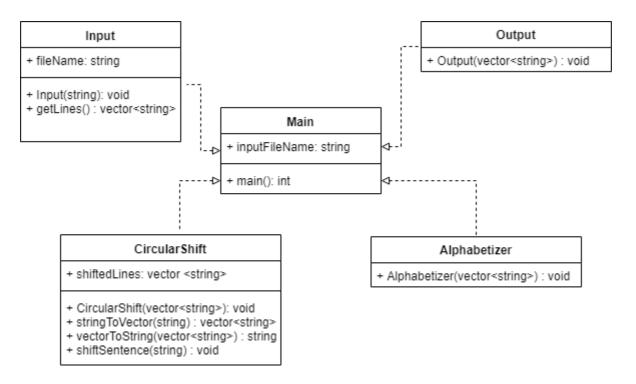
"Clouds are white."
"Pittsburgh is beautiful."

#### • output

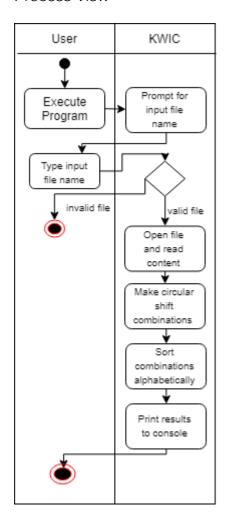
are white clouds beautiful pittsburgh is clouds are white is beautiful pittsburgh pittsburgh is beautiful white clouds are

### Software Architecture

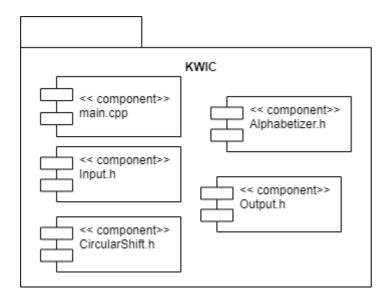
Logic View



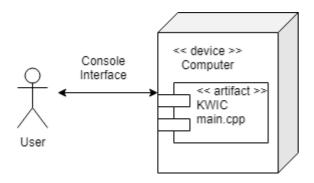
#### **Process View**



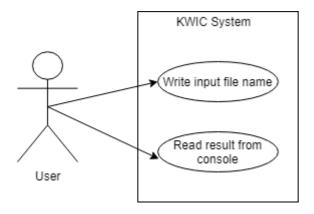
Development View



## Physical View



#### Scenario View



## How to Run

Compile and run from terminal

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

Write input

example.txt

# Result

