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| **Assignment 1: KWIC** | **CS3219 Semester 1 2016/17** |

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| **Code Repository URL** | <https://github.com/cs3219ay1617s1-g5/A1_KWIC> | |
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# **Introduction**

# **Requirements**

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| Functional |  |
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|  |  |
| Non-Functional |  |
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# **Architectural Designs**

# **Limitations & Benefits of Selected Designs**

1. ***Abstract Data Type:***
   * Benefits:
     + 1. Data is not shared directly by the components
       2. Both algorithms and data representation can be changed in individual modules without affecting others
       3. Encourages software reuse
       4. Encourages decomposition of a problem into a number of interacting components
       5. Possible to change implementation of an object without affecting its clients
   * Limitations:
     1. For an object to interact with another, it must know its identity
     2. When the methods of an object change, so must all other objects that use this method
     3. Not well suited to enhancements
     4. To add new functions, modules must be modified or added, which could compromise performance
2. ***Pipes and Filter:***