Compiler Architecture

The architecture we decided to use in our project is a Pipe-filter pattern.

Pipe-filter pattern

This pattern can be used to structure systems which produce and process a stream of data. Each processing step is enclosed within a **filter** component. Data to be processed is passed through **pipes**. These pipes can be used for buffering or for synchronization purposes. (Mallawaarachchi, 2017)

Usage

• Compilers. The consecutive filters perform lexical analysis, parsing, semantic analysis, and code generation.

Reference

• Mallawaarachchi, Vijini. (2017, September 4). 10 Common Software Architectural Patterns in a nutshell. https://towardsdatascience.com/10-common-software-architectural-patterns-in-a-nutshell-a0b47a1e9013

