

Calculia

“Block” calculator

Team:

-Marcin Madej

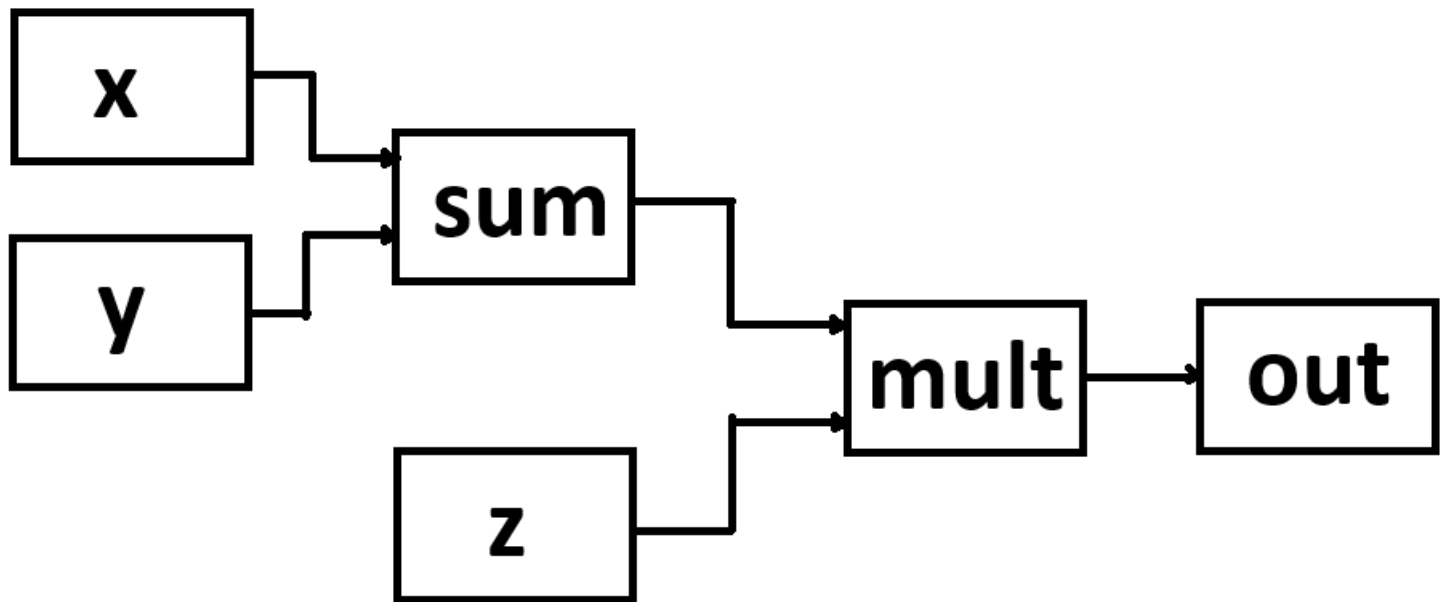
-Bartłomiej Łabarzewski

What do we plan to do?

A desktop application — a calculator in which, by connecting blocks of operations and values together, calculations can be performed.

There should be a button for adding blocks, and after pressing it, a window should appear in which we can choose the type of block and select the blocks on which we want to perform a given operation, if such an operation requires them.

For optimization purposes, to avoid recalculating values that were already computed earlier, we plan to use the Observer design pattern.



How do we plan to implement it?

- Java

- JavaFX

Which design patterns will we use?

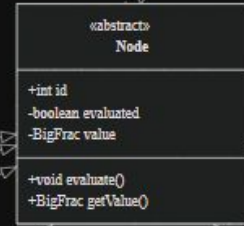
- Observer

- Model-View-Controller (MVC)

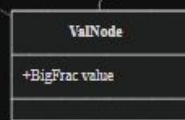
- Composite

Calculia - Nodes

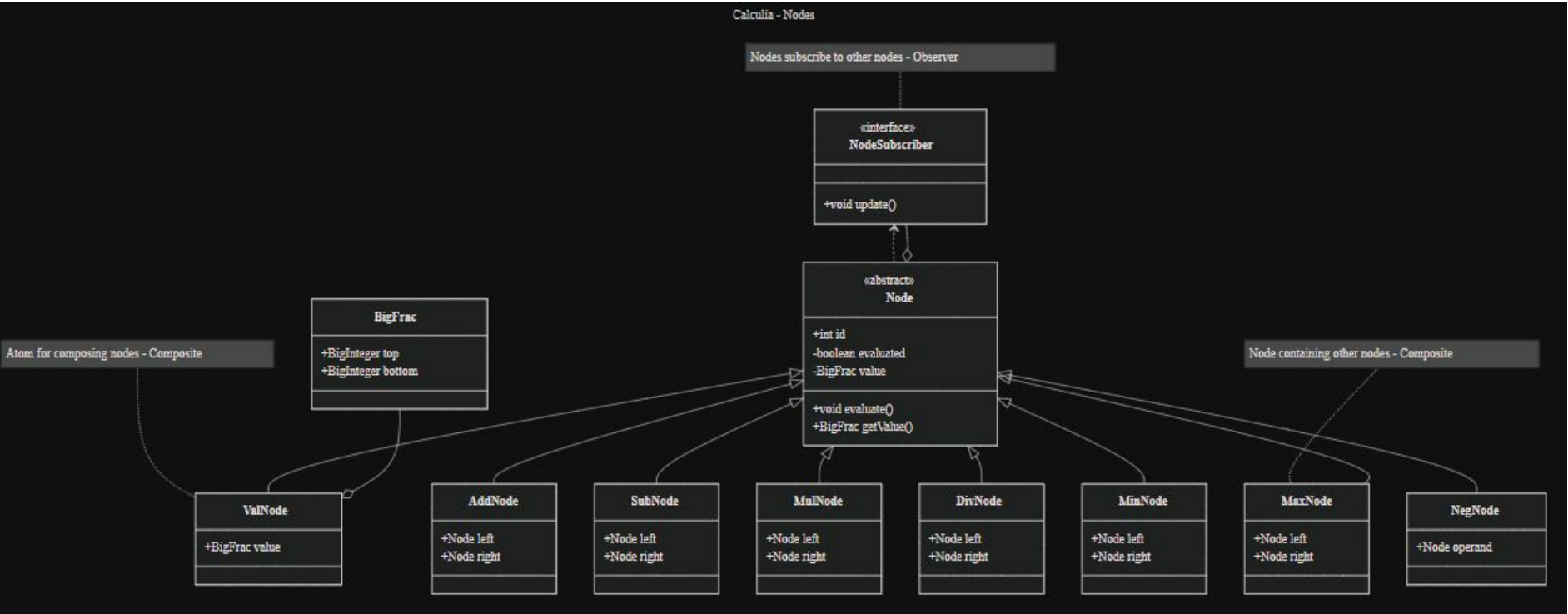
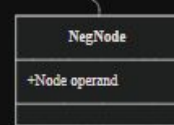
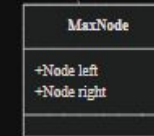
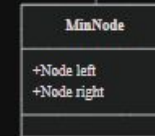
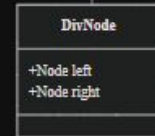
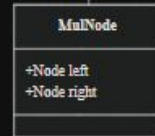
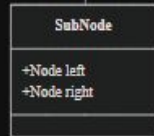
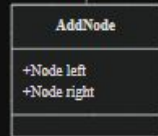
Nodes subscribe to other nodes - Observer

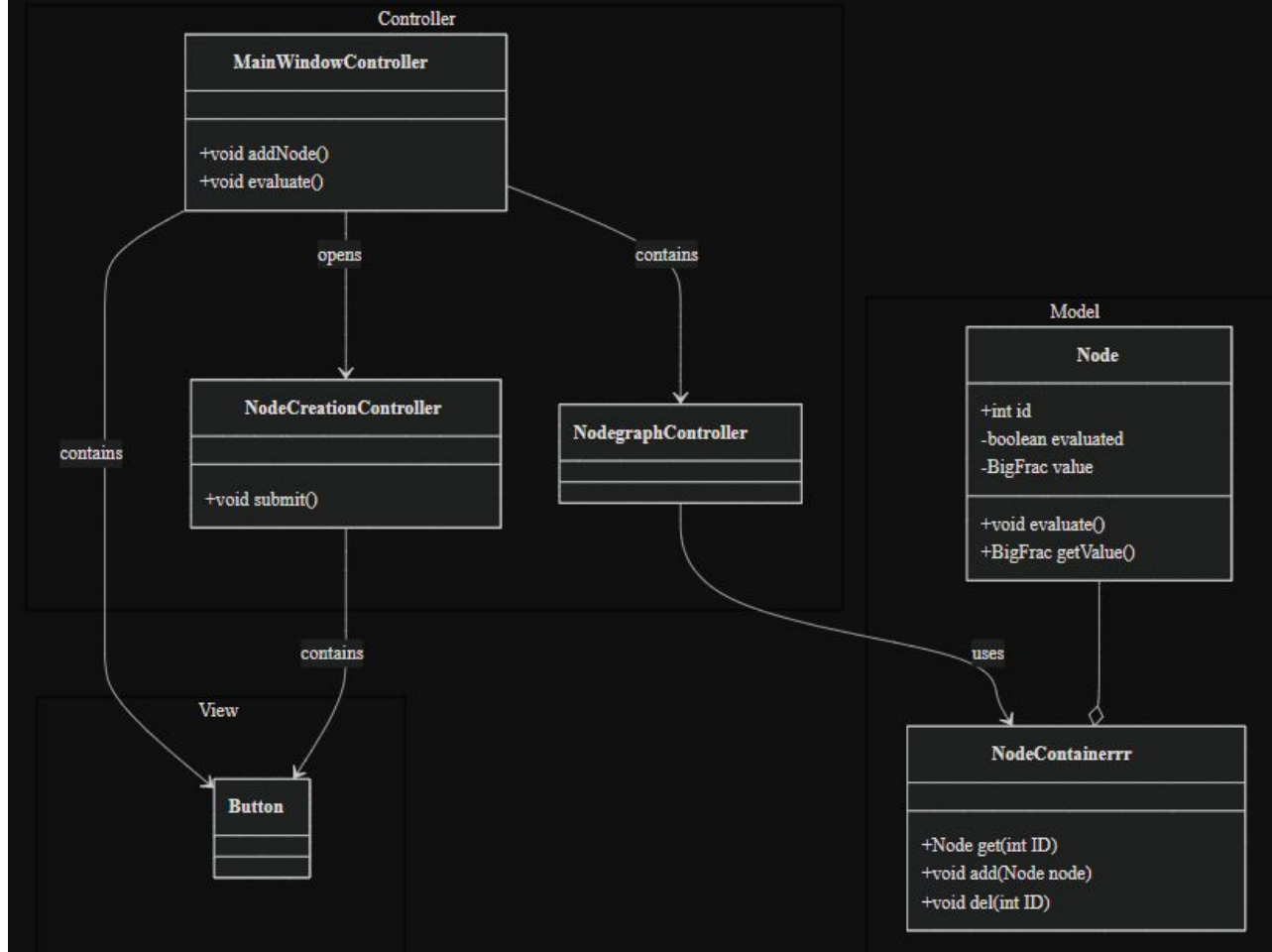


Atom for composing nodes - Composite



Node containing other nodes - Composite





THANK YOU

FOR LISTENING

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