

## The MoSCoW Analysis

### M -

We must have a functional GUI as with it all the operations and unary options are there ready to be used.

We must be able to do simple calculations such as "2+2" or "5/2" and display the answer

The calculator must be able to use the 4 basic operators \*,/, -, + plus a different operator ^

### S -

Implement tokenization, this is the groundwork for the core part of the project, without it the whole calculator simply wouldn't work.

Implement the shunting yard algorithm, this will convert the expression from infix notation to postfix notation (sometimes referred to as reverse polish notation)

Implement a RPN solver, this will take the postfix notation and solve it.

The calculator should be able to do complex calculations such as " $(2(3+3)(5/2))^2$ "

The calculator should hold a history tab where the previous expressions and history can be accessed

Implement more operators and functions

### C -

The calculator should hold all possible operators and functions for a scientific calculator

### W -

We wouldn't be able to implement this on a website due to time and monetary restraints, there just isn't simply enough time to set up a website that will work with an interactive calculator and keep it up for a long time because we have no expenditure.