

Calculator

SOFTWARE REQUIREMENTS SPECIFICATIONS

SHEETAL KASHID

INTRODUCTION

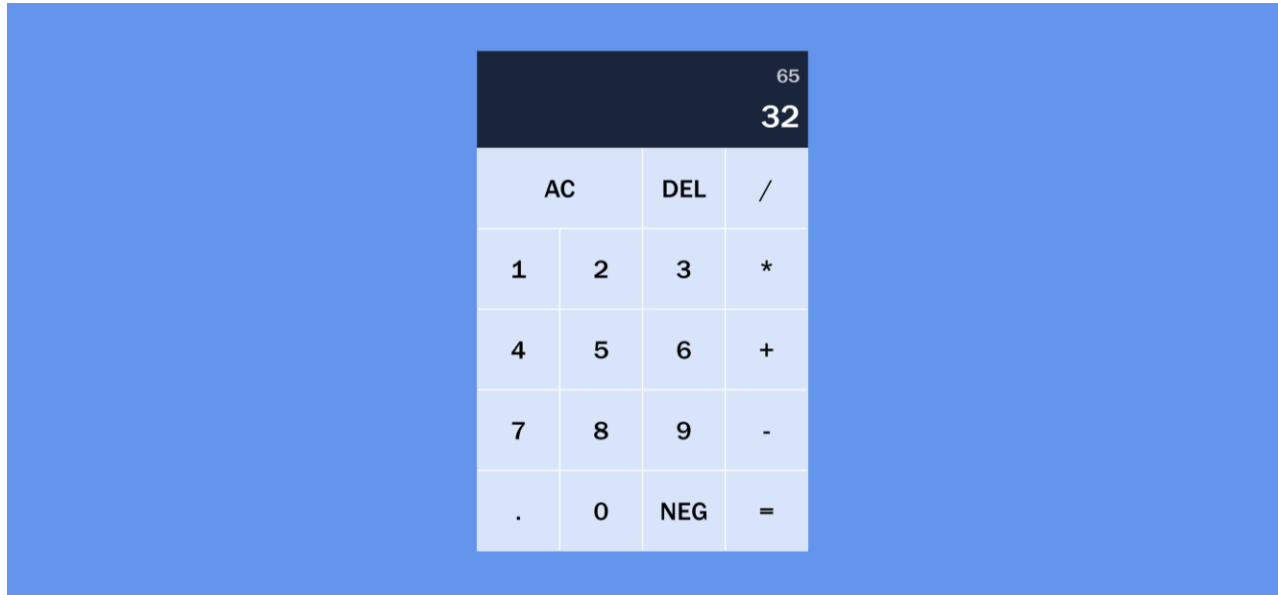
A simple Calculator app using JavaScript. VS Code IDE was used to implement. It performs basic arithmetic operations: Addition, Subtraction, Multiplication, and Division.

Requirements:

1. The calculator only accepts numbers between -9999.99 and 9999.99.
2. Internal calculations should truncate extra digits after the second decimal digit.
3. Internal calculations should throw an error when the calculated number is out of range, and display it on the screen.
4. The sign can be changed at any time when a number is entered.
5. The display can be cleared at any time.
6. Consecutive calculations are allowed before clearing the display.

Structure

The UI of the application looks like and can be found with index.html file.



Buttons

1. Numbers: 0 – 9
2. AC: all clear
3. DEL: Deletes the last entered number
4. Operators: [+ , - , / , *]
5. NEG: Negates the entered number
6. Decimal point: [.]
7. Equal to: [=]
8. Two display grids
 - a. Below brighter and bigger showing the current number
 - b. Above smaller showing the previous number (before any operator was clicked)

Functions

1. `appendNumber()`

Function takes the a number/digit clicked by the user as a character and appends it to the current string of numbers

2. `operationType()`

If the input character is an operator the function will remember what operation to be computed once the next number is entered

3. `compute()`

Computes the operation using the previous and current numbers

4. `clear()`

Will reset all the variables

5. `delete()`

Will delete just the last number entered

6. `negate()`

Will negate the number this can be done anytime

7. `display()`

Displays the current and previous text