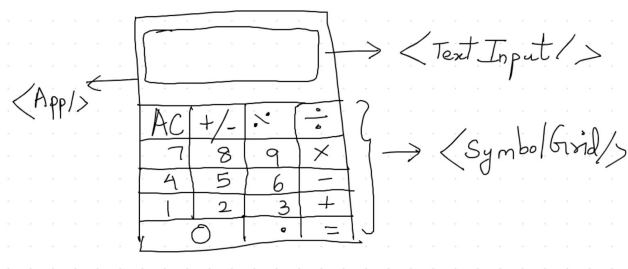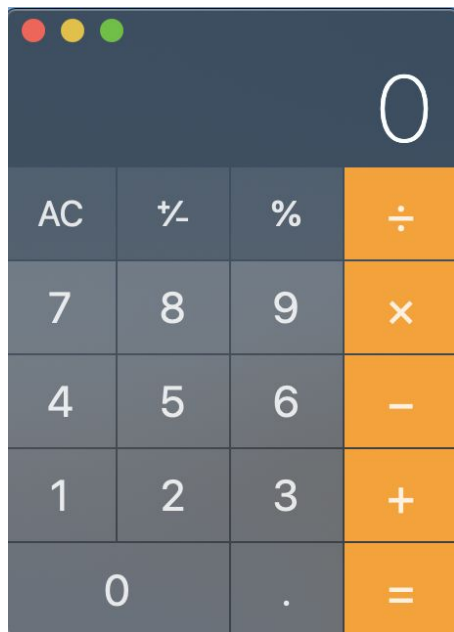# Assignment - Week 9 Day 4

Build a basic calculator using React. I know I know it's tough lol. I will explain what should be done and everything regarding design, functionality. Moreover, you don't have to think of every edge case. Just follow the below instructions and you will be fine.

User Interface:

The calculator should somewhat look like this.

The first row symbols are 1) AC: All clear, 2) + / - : Which is like a toggle to turn on the negative symbol for the number. 3) % : Percentage, (dividing by hundred). Regarding the grid of numbers, try to split them as row by row with the help of display: flex. The last row is a bit weird, as the number 0 is spanning two columns instead of one. Flex: 1, helps in that case if the other

elements have a specific width/flex-basis. The dot symbol allows decimals for the input number.

Functionality:

1) It should have all the basic arithmetic operations (+, -, *, /). Try to think of the moving parts (numbers, symbols) around the calculator, and figure out the event handlers (when to use click and when to use submit). Wire this first inside the application.

2) After completing the above step, I am sure many bugs regarding validation would have happened like having the ability to calculate without even feeding the numbers, Division by zero error, decimals addition and arithmetic. Try to solve each of these errors one by one. Most probably there won't be arithmetic errors, as the JavaScript compiler would handle it, but the conversion from string to float/number and updating the state is where your part comes in.

3) Lastly, figure out the extra features which are located in the first row like clearing the values and putting the default text as 0, negating a number and toggling back to positive, calculating the percentage (which is literally dividing by 100).

YOU DON'T HAVE TO FIND THE RESULTS RECURSIVELY. FOR EXAMPLE, 2 + 3 + 5 + 7 + 10 IS NOT REQUIRED. JUST FIND THE ANSWER FOR 2 NUMBERS, AND STOP THERE. IT'S BASICALLY UPDATING THE FIRST NUMBER WITH THE RESULT YOU HAVE COMPUTED.

ONE MORE THING, WHEN YOU ARE CLICKING THE NUMBERS/SYMBOLS THE EXPRESSION MUST BE VISIBLE ON THE TEXT INPUT COMPONENT. LIKE 3 X 4, 4 / 12 … THE ANSWER SHOULD BE SHOWN THE MOMENT YOU PRESS THE EQUALS SIGN.