Calculator using REACT JS

Code:

App.js

```
import React, { Component } from 'react';
import './App.css';
import ResultComponent from './components/ResultComponent';
import KeyPadComponent from "./components/KeyPadComponent";

class App extends Component {
  constructor(){
    super();

    this.state = {
      result: ""
    }
  }

  onClick = button => {

    if(button === "="){
      this.calculate()
    }

    else if(button === "C"){
      this.reset()
    }
    else if(button === "CE"){
      this.backspace()
```

```
    }

    else {
      this.setState({
        result: this.state.result + button
      })
    }
};


calculate = () => {
    var checkResult = ''
    if(this.state.result.includes('--')){
      checkResult = this.state.result.replace('--','+')
    }

    else {
      checkResult = this.state.result
    }

    try {
      this.setState({
        // eslint-disable-next-line
        result: (eval(checkResult) || "" ) + ""
      })
    } catch (e) {
      this.setState({
        result: "error"
      })
```

```jsx
    }
  };


  reset = () => {
    this.setState({
      result: ""
    })
  };


  backspace = () => {
    this.setState({
      result: this.state.result.slice(0, -1)
    })
  };


  render() {
    return (
      <div>
        <div className="calculator-body">
          <br></br>
          <span>Calculator</span>
          <ResultComponent result={this.state.result}/>
          <KeyPadComponent onClick={this.onClick}/>
        </div>
      </div>
    );
  }
}
export default App;
```

app.css

```css
.result {
  height: 100px;
  background-color:black ;
  color:white;
  width: 100%;
  padding-top: 10px;
  font-family:'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva, Verdana, sans-serif ;
}

.result p {
  font-size: 40px;
  margin: 5px;
  padding-top: 70px;
  padding-left: 30px;
  text-align:right;
}

.calculator-body {
  width:25%;
  height:400px;
  margin: auto;
  background-color: black;
}

.button {
  display: block;
  background-color:black;
  padding: 5px;
}
```

```css
button {

  background-color: grey; /* Green */

  border: none;

  color: white;

  padding: 20px;

  text-align: center;

  text-decoration: none;

  display: inline-block;

  font-size: 16px;

  margin: 10px 3px;

  cursor: pointer;

  border-radius: 50%;

  width:23%;

  font-weight: bold;



}
#heade

{

  background-color:whitesmoke;

  color:black;

  font-weight: bold;

}


#side

{

  background-color:orangered;

  color:white;

  font-weight: bold;
```

```css
}


#zero
{
  border-radius:100px;
width:143px;
font-weight: bold;
}
span
{
  color:white;
  text-align: center;
  font-size: 30px;
  padding-left: 85px;
  font-weight: bold;


  font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', Roboto, Oxygen, Ubuntu,
Cantarell, 'Open Sans', 'Helvetica Neue', sans-serif;
}
```

KeyPadComponent.js

```jsx
import React, {Component} from 'react';


class KeyPadComponent extends Component {


  render() {
    return (
      <div className="button">
      <br></br>

        <button id="heade" name="C" onClick={e =>
this.props.onClick(e.target.name)}>AC</button>
```

```jsx
<button id="heade" name="CE" onClick={e => this.props.onClick(e.target.name)}>CE</button>
<button id="heade" name="%" onClick={e => this.props.onClick(e.target.name)}>%</button>
<button name="/" id="side" onClick={e => this.props.onClick(e.target.name)}>÷</button><br/>



<button name="7" onClick={e => this.props.onClick(e.target.name)}>7</button>
<button name="8" onClick={e => this.props.onClick(e.target.name)}>8</button>
<button name="9" onClick={e => this.props.onClick(e.target.name)}>9</button>
<button id="side" name="*" onClick={e => this.props.onClick(e.target.name)}>x</button><br/>



<button name="4" onClick={e => this.props.onClick(e.target.name)}>4</button>
<button name="5" onClick={e => this.props.onClick(e.target.name)}>5</button>
<button name="6" onClick={e => this.props.onClick(e.target.name)}>6</button>
<button id="side" name="-" onClick={e => this.props.onClick(e.target.name)}>-</button><br/>



<button name="1" onClick={e => this.props.onClick(e.target.name)}>1</button>
<button name="2" onClick={e => this.props.onClick(e.target.name)}>2</button>
<button name="3" onClick={e => this.props.onClick(e.target.name)}>3</button>
<button name="+" id="side" onClick={e => this.props.onClick(e.target.name)}>+</button><br/>
```

```jsx
        <button id="zero" name="0" onClick={e =>
this.props.onClick(e.target.name)}>0</button>


        <button name="." onClick={e => this.props.onClick(e.target.name)}>.</button>
        <button id="side" name="=" onClick={e =>
this.props.onClick(e.target.name)}>=</button>
            <br/>
        </div>
    );
  }
}
export default KeyPadComponent;
```

Resultcomponent.js

```jsx
import React, {Component} from 'react';


class ResultComponent extends Component {


  render() {
    let {result} = this.props;
    return (
      <div className="result">
        <p>{result}</p>
      </div>
    )
    ;
  }
}export default ResultComponent;
```

Screenshot: