Week 9 Portfolio

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React Class Components

1. Screenshots

Task 1: Facebook Emojis Class Component

In the task one, I started by creating a Facebookemoji.js file in my src folder and wrote a class component to count clicks for different emojis. I imported images and used props to display specific emojis like "Like," "Love," and "happy." Then, I made sure each button increased the counter when clicked.

```
| West |
```

Rendering in the index.js

```
week9 > emojicounter > src > JS index.js > ...
      import React from 'react';
      import ReactDOM from 'react-dom/client';
      import './index.css';
      import App from './App';
      import reportWebVitals from './reportWebVitals';
      import FacebookEmojiCounter from './Facebookemoji';
      const root = ReactDOM.createRoot(document.getElementById
      ('root'));
      root.render(
        <React.StrictMode>
          <FacebookEmojiCounter type="Like" />
  11
          <FacebookEmojiCounter type="Love" />
         <FacebookEmojiCounter type="Happy" />
        </React.StrictMode>
  14
      reportWebVitals();
```

Task 2: Toggle Emoji

For this, I created a ToggleModeComponent.js file. I made a class that toggles between "happy" and "sad" emojis each time a button is clicked. I used the component's state to track which emoji to show and added the toggle logic inside a function.

```
1 import './index.css';
2 import React from 'react';
4 import Sad from './Sad.png';
5 import Happy from './Happy.png';
7 class ToggleMode extends React.Component {
  constructor(props) {
      super(props);
      this.state = { pic: Happy }; // Initialize with happy emoji
      this.Toggle_Mode = this.Toggle_Mode.bind(this); // Bind the toggle function
14 Toggle_Mode() {
      this.setState((prevState) => {
      if (prevState.pic === Sad) {
         return { pic: Happy };
         return { pic: Sad };
         <h3>Toggle the Emoji!</h3>
         <button onClick={this.Toggle_Mode}>
        <img src={this.state.pic} alt="emoji" />
</button>
       </div>
37 export default ToggleMode;
```

Then, I included this component in index.js and tested it to make sure it worked.

```
| memory | month | mon
```

2. Reflection

This lab was super interesting because I learned how to use **class components** in React. They're different from the functional components we used before because they have a constructor and can hold their own state. This means the component can "remember" things, like how many times I clicked a button or which emoji to show. At first, it felt a bit tricky since I had to bind methods and use this.setState, but once I understood it, it made sense.

Writing the code for increment and toggle functions really helped me understand how buttons and events work better. Compared to last week's lab with functional components, which were easier since they used hooks like useState, class components felt more advanced but also more powerful. I feel like I'm learning how React works on a deeper level now!