Лабораторна робота №4

React useMemo and useCallback Hooks

Вивчити лекційний матеріал.

[Built-in React Hooks – React](https://react.dev/reference/react)

[useCallback – React](https://react.dev/reference/react/useCallback)

[useMemo – React](https://react.dev/reference/react/useMemo)

[Understanding useMemo and useCallback (joshwcomeau.com)](https://www.joshwcomeau.com/react/usememo-and-usecallback/)

[Better React Performance – When to Use the useCallback vs useMemo Hook (freecodecamp.org)](https://www.freecodecamp.org/news/better-react-performance-usecallback-vs-usememo/)

Виконати лабораторну роботу №4

Оптимізуйте код знизу за допомогою useMemo і useCallback

// Parent.jsx

import React, { useState } from "react";

import Title from "./Title";

import Button from "./Button";

import Display from "./Display";

const Parent = () => {

const [salary, setSalary] = useState(2000);

const [age, setAge] = useState(30);

const incrementAge = () => {

setAge(age + 5);

};

const incrementSalary = () => {

setSalary(salary + 100);

};

return (

<div>

<Title />

<Display text="age" displayvalue={age} />

<Button handleClick={incrementAge}>Update Age</Button>

<Display text="salary" displayvalue={salary} />

<Button handleClick={incrementSalary}>Update Salary</Button>

</div>

);

};

export default Parent;

The content of Title.jsx are as follows:

// Title.jsx

import React from "react";

const Title = () => {

console.log("Title Component is rendered");

return (

<h1>useCallback Hook.</h1>

);

};

export default Title;

The Display.jsx file contains the following:

// Display.jsx

import React from "react";

const Display = ({ text, displayvalue }) => {

console.log("Display Component Rendered ", { displayvalue });

return (

<p>

This person's {text} is {displayvalue}

</p>

);

};

export default Display;

Then, Button.jsx is as follows:

// Button.jsx

import React from "react";

const Button = ({ handleClick, children }) => {

console.log("Button Component Renders - ", { children });

return <button onClick={handleClick}>{children}</button>;

};

export default Button;

Finally, App.jsx contains these lines:

import Parent from "./components/Parent";

function App() {

return (

<>

<Parent />

</>

);

}

export default App;