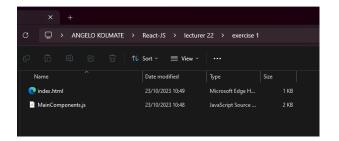
EVENTS MANAGEMENT

EXERCISE 1: Button event handling didalam CALCULATOR

- Create Folder dengan nama "lecturer 22" dan create folder baru didalamnya "exercise 1"
- Didalam Folder tersebut kita akan membuat 2 code yaitu : "index.html", "MainComponents.js"



Code HTML

```
CAUsers/PT.ADITYA/React-JS\understand - Notepad++

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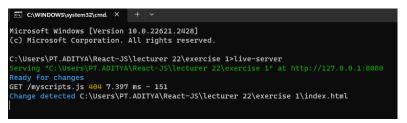
| Section |
```

• Code JS (mengcreate class, objeck, set value, dan set arithmetic operations)

```
C:\Users\PT.ADITYA\React-JS\lecturer 22\exercise 1\MainComponents.js - Notepad++
📇 styles.css 🗵 🔚 index.html 🗵 🔚 MainComponents.js 🗵 📑 index.html 🗵 🛗 Greetings.js 🗵 🛗 Login.js 🗵 📑 index.js 🗵
        class Header extends React.Component {
               constructor() {
                    super();
// membuat objek state
                    this.state = {
    angka1: "0",
    angka2: "0",
                        result: "0"
                    };
 13
14
15
16
               // Set Values
setValue1 = (val1) => { this.setState({angka1: ""+val1}); }
setValue2 = (val2) => { this.setState({angka2: ""+val2}); }
               // Arithmetic operations such as addition, subtraction, division, multiplication
               funcMultiply = (val) => {
    var hasil = parseInt(this.state.angkal) * parseInt(this.state.angka2);
                    this.setState({ result: ""+hasil });
 22
23
24
25
26
27
28
29
30
31
               funcDivide = (val) => {
                    var hasil = parseInt(this.state.angkal) / parseInt(this.state.angkal);
this.setState({ result: ""+hasil });
               funcSubtract = (val) => {
                    var hasil = parseInt(this.state.angkal) - parseInt(this.state.angka2);
this.setState({ result: ""+hasil });
                    var hasil = parseInt(this.state.angkal) + parseInt(this.state.angka2);
this.setState({ result: ""+hasil });
 32
              render () {
                   <div>
                        <h1>Simple
                                     Calculator ReactJs</h1>
 39
40
41
                       Input 1: <input value={this.state.angkal} onChange={ (e)=> {this.setValue1(e.target.value)}} />
<br/>
<br/>
<br/>

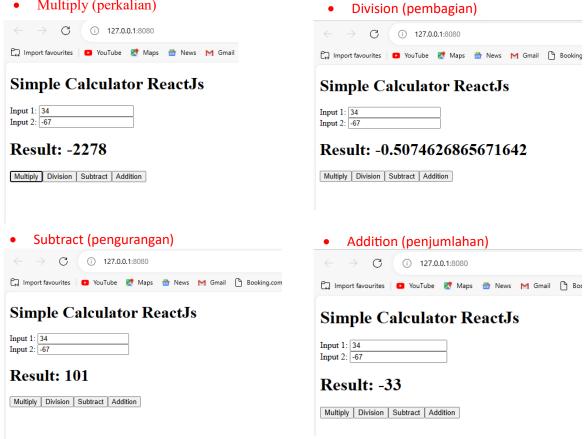
                       Input 2: <input value={this.state.angka2} onChange={ (e)=> {this.setValue2(e.target.value)}} />
                        <h1>Result: {this.state.result}</h1>
<button onClick={this.funcMultiply}>Multiply</button>
 42
43
44
45
46
47
48
49
50
51
                       </div>
          // render komponen ke RealDOM
         ReactDOM.render(<Header />, document.getElementById("app"));
```

Jalankan di CMD live-server



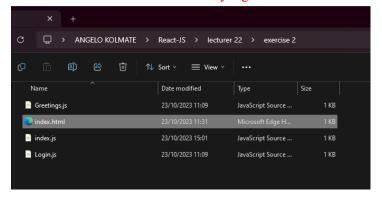
EXPECTED OUTPUT

• Multiply (perkalian)



EXERCISE 2: LOGIN AND LOGOUT menggunakan ReactJS Conditional Rendering.

• Create folder baru "exercise 2" yang akan diisi 4 code



HTML code

 component Greeting File

> (terdapat 3 function didalamnya. Untuk menampilkan welcome, sign in, greetings. Terdapat "return" untuk menampilkan).

```
C:\Users\PT.ADITYA\React-JS\lecturer 22\exercise 2\Greetings.js - Notepad++
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 3 🖶 🗎 🗅 😘 😘 🛦 | 🕹 m 🖍 | 🗩 c | 🛎 🦖 | 🔍 🧠 | 🖫 🖼 🚍 🗀 1 📭 🐷
 📑 styles.css 🗵 📄 index.html 🗵 📄 MainComponents.js 🗵 📄 index.html 🗵 💾 Greetings.js 🛛
         // welcome
       function UserGreeting (props) {
             return <h1>Welcome back!</h1>;
        // sign in
       function GuestGreeting(props) {
             return <h1>Please sign up.</h1>;
  8
  9
         // choose greetings
  11
       function Greeting (props) {
             const isLoggedIn = props.isLoggedIn;
  13
             if (isLoggedIn) {
                  return <UserGreeting />;
  14
  15
  16
             return <GuestGreeting />;
  17
```

 Component Buttons File

> (untuk mengcreate Button Login dan Button Logout)

```
C:\Users\PT.ADITYA\React-JS\lecturer 22\exercise 2\Login.js - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
🕞 🚽 🗎 🖺 🤚 😘 🤚 🔏 🖟 🐚 🛍 🕽 🗷 📹 🚍 🗶 🐚 🗗 🗁 🧸
📙 styles.css 🗵 📙 index.html 🗵 📙 MainComponents.js 🗵 블 index.html 🗵 블 Greetings.js 🗵 崖 Login.js 🗵 📙
         // create button login
        function LoginButton(props) {
            return (
                 <button onClick={props.onClick}>
  5
                    Login
                 </button>
  6
             );
  8
 10
         // create button logout
       function LogoutButton(props) {
 12
            return (
                 <button onClick={props.onClick}>
 13
 14
                     Logout
                 </button>
 15
             );
  17
```

 Component Handle Login (mengcreate CREATE CLASS untuk Handle Login)

```
C:\Users\PT.ADITYA\React-JS\lecturer 22\exercise 2\index.js - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
📇 styles.css 🗵 📇 index.html 🔀 📇 MainComponents.js 🗵 📇 index.html 🖸 📇 Greetings.js 🗵 📇 Login.js 🗵 🚞 index.js 🗵
       class LoginControl extends React.Component {
  2
            constructor (props) {
  3
              super (props);
              this.handleLoginClick = this.handleLoginClick.bind(this);
  4
  5
              this.handleLogoutClick = this.handleLogoutClick.bind(this);
  6
              this.state = { isLoggedIn: false };
  8
            handleLoginClick() {
  9
              this.setState({ isLoggedIn: true });
            handleLogoutClick() {
 11
            this.setState({ isLoggedIn: false });
 13
            render() {
 14
              const isLoggedIn = this.state.isLoggedIn;
 15
 16
              let button;
 17
              if (isLoggedIn) {
 18
               button = <LogoutButton onClick={this.handleLogoutClick} />;
 19
              } else {
 20
                button = <LoginButton onClick={this.handleLoginClick} />;
 21
              }
 22
              return (
 23
                <div>
 24
                  <Greeting isLoggedIn={isLoggedIn} />
 25
 26
                </div>
 27
              );
 28
 29
          1
          ReactDOM.render(<LoginControl />, document.getElementById("app"));
 30
```

RUN MENGGUNAKAN CMD live-server

```
Microsoft Windows [Version 10.0.22621.2428]
(c) Microsoft Corporation. All rights reserved.

C:\Users\PT.ADITYA\React-JS\lecturer 22\exercise 2>live-server
Serving "C:\Users\PT.ADITYA\React-JS\lecturer 22\exercise 2" at http://127.0.0.1:8080
Ready for changes
GET /favicon.ico 404 5.933 ms - 150
Change detected C:\Users\PT.ADITYA\React-JS\lecturer 22\exercise 2\index.js
```

EXPECTED OUTPUT

