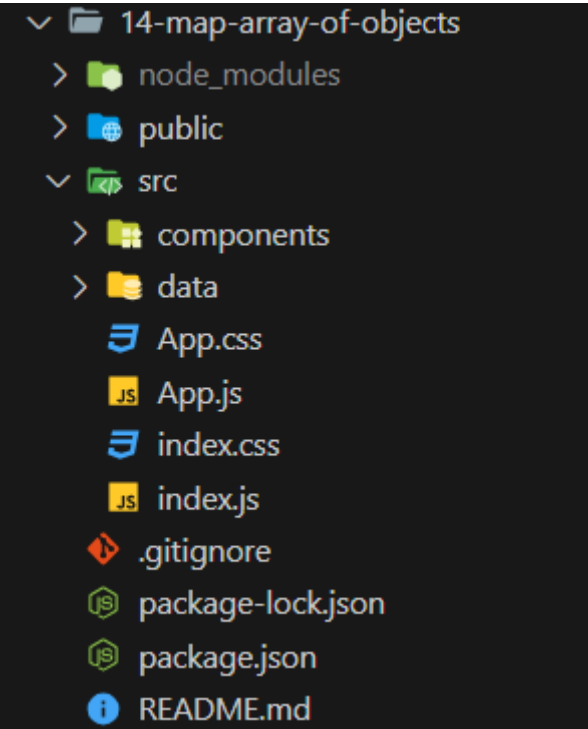


Проект с итерацией по массиву объектов



<div>200 × 100</div> <div>Addy Mostyn amostyn0@smugmug.com</div>	<div>200 × 100</div> <div>Berry Brammar bbrammar1@about.com</div>	<div>200 × 100</div> <div>Gavan Crigin gcrigin2@bandcamp.com</div>	<div>200 × 100</div> <div>Karrie De L'Isle kdelisle3@auda.org.au</div>
<div>200 × 100</div> <div>Jammie Concannon jconcannon6@cloudflare.com</div>	<div>200 × 100</div> <div>Forrest Shawley fshawley7@digg.com</div>	<div>200 × 100</div> <div>Katie Laraway klaraway8@uol.com.br</div>	<div>200 × 100</div> <div>Izzy Munnings imunnings9@ocn.ne.jp</div>

1 этап

```
JS person.js JS persons.js JS App.js M X
14-map-array-of-objects > src > JS App.js > App > persons.map() callback
1  import './App.css';
2  import persons from './data/persons';
3  import Person from './components/person';
4
5  function App() {
6    return (
7      <div className="App">
8        {persons.map((person) => {
9          const { id, firstName, lastName, email, img } = person;
10         return (
11           <Person
12             id={id}
13             firstName={firstName}
14             lastName={lastName}
15             email={email}
16             img={img}
17           />
18         );
19       })}
20     </div>
21   );
22 }
23
24 export default App;
```

```
JS person.js X JS App.js JS Counter.js
14-map-array-of-objects > src > components > JS person.js > ...
1  function Person(props) {
2    console.log(props);
3    return <div></div>;
4  }
5
6  export default Person;
7  |
```

14-map-array-of-objects > src > data > JS persons.js > default

```
1  const persons = [  
2    {  
3      id: 1,  
4      firstName: 'Addy',  
5      lastName: 'Mostyn',  
6      email: 'amostyn0@smugmug.com',  
7      img: 'http://dummyimage.com/200x100.png/5fa2dd/ffffff',  
8    },  
9    {  
10     id: 2,  
11     firstName: 'Berry',  
12     lastName: 'Brammar',  
13     email: 'bbrammar1@about.com',  
14     img: 'http://dummyimage.com/200x100.png/ff4444/ffffff',  
15   },  
16   {  
17     id: 3,  
18     firstName: 'Gavan',  
19     lastName: 'Crigin',  
20     email: 'gcrigin2@bandcamp.com',
```

Внимание!!! Содержимое файла data/persons.js сгенерировано на сайте <https://mockaroo.com/> и содержится в файле MOCK_DATA.json

2 этап

Что бы устранить избыточность кода в компоненте Person используем оператор spread (...) и укажем уникальный ключ key, в качестве значения которого возьмем person.id

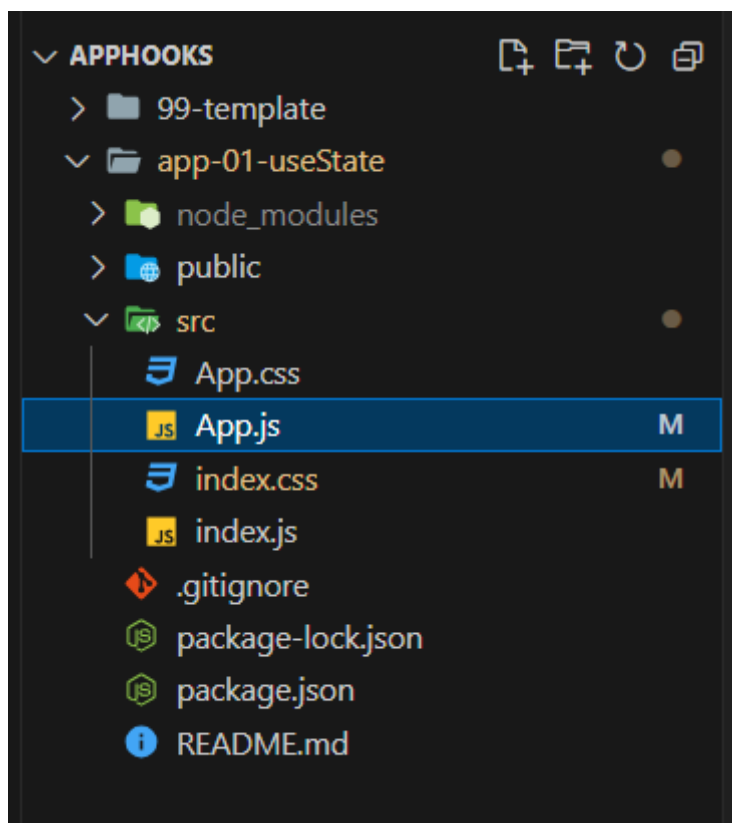
```
JS Person.js JS persons.js JS App.js M X
14-map-array-of-objects > src > JS App.js > App > persons.map() callback
1  import './App.css';
2  import persons from './data/persons';
3  import Person from './components/Person';
4
5  function App() {
6    return (
7      <div className="App">
8        {persons.map((person) => {
9          return <Person key={person.id} {...person} />;
10        })}
11      </div>
12    );
13  }
14
15  export default App;
```

Сформируем блок JSX-кода на основе полученных свойств

```
JS Person.js M X JS persons.js JS App.js M
14-map-array-of-objects > src > components > JS Person.js > Person
1  function Person(props) {
2    const { firstName, lastName, email, img } = props;
3    return (
4      <div>
5        <img src={img} />
6        <h3>
7          {firstName} {lastName}
8        </h3>
9        <h4>{email}</h4>
10      </div>
11    );
12  }
13
14  export default Person;
15
```

Самостоятельно добавить стили для получения вышеуказанного результата

Хук useState (функциональный и классовый компоненты)



localhost:3000

React App

Hello 3

Start aditing to see some magic happen!

Увеличить

Уменьшить

Функциональный компонент и его подключение

```
JS App.js M X
app-01-useState > src > JS App.js > ...
1 import { useState } from 'react';
2
3 export default function App() {
4   const [item, setItem] = useState(1);
5   const incrementItem = () => setItem(item + 1);
6   const decreaseItem = () => setItem(item - 1);
7
8   return (
9     <div className="App">
10      <h1>Hello {item}</h1>
11      <h2>Start adding to see some magic happen!</h2>
12      <button onClick={incrementItem}>Увеличить</button>
13      <button onClick={decreaseItem}>Уменьшить</button>
14    </div>
15  );
16 }
17
```

```
JS App.js M JS index.js M
app-01-useState > src > JS index.js > ...
1 import React from 'react';
2 import ReactDOM from 'react-dom/client';
3 import './index.css';
4 import App from './App';
5
6 const root = ReactDOM.createRoot(document.
  getElementById('root'));
7 root.render(<App />);
8
```

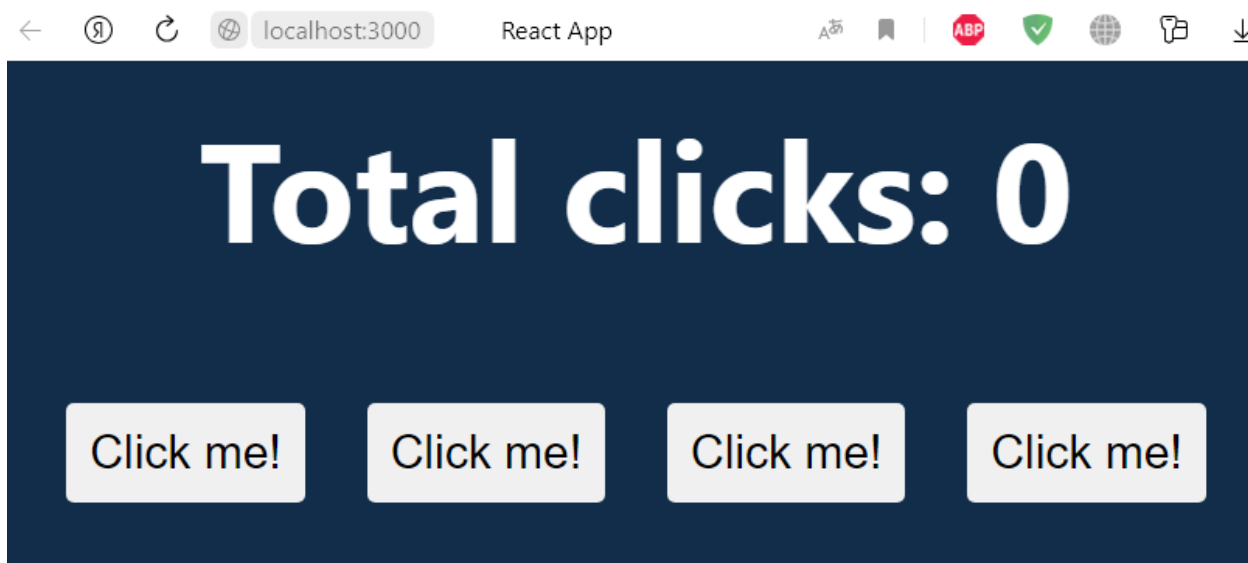
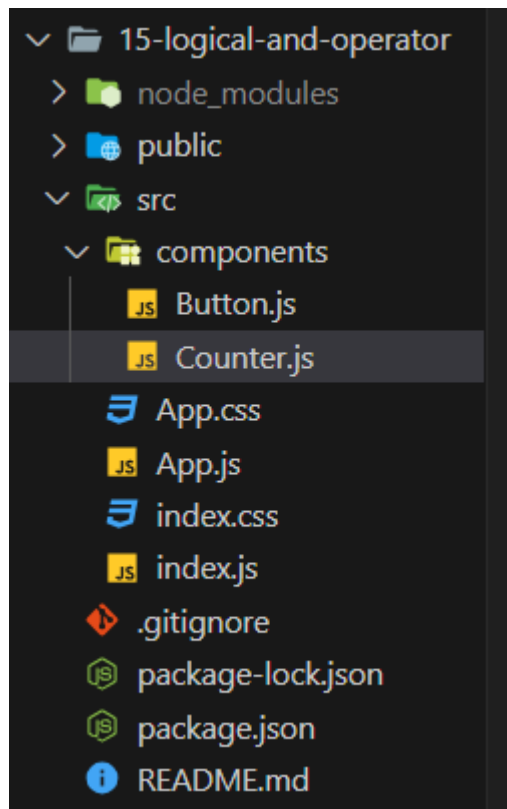
Классовый компонент и его подключение

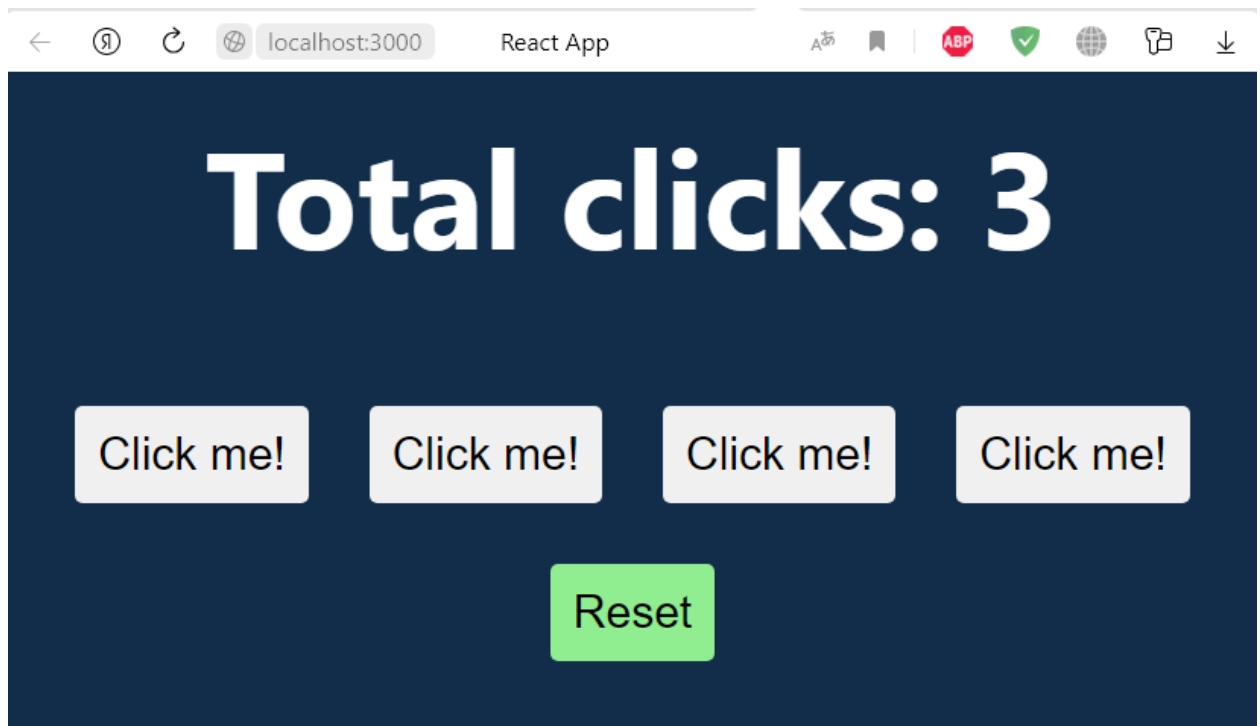
```
JS App.js M X JS index.js
app-01-useState > src > JS App.js > ...
1 import { useState } from 'react';
2 import React from 'react';
3
4 > export default function App() { ...
17 }
18
19 class AppClassUseState extends React.Component {
20   state = {
21     item: 1,
22   };
23   render() {
24     const { item } = this.state;
25     return (
26       <div className="App">
27         <h1>Hello {item}</h1>
28         <h2>Start adding to see some magic happen!</h2>
29         <button onClick={this.incrementItem}>Увеличить</button>
30         <button onClick={this.decreaseItem}>Уменьшить</button>
31       </div>
32     );
33   }
34   incrementItem = () =>
35     this.setState((state) => {
36       return { item: state.item + 1 };
37     });
38   decreaseItem = () =>
39     this.setState((state) => {
40       return { item: state.item - 1 };
41     });
42 }
```

```
JS App.js M JS index.js X
app-01-useState > src > JS index.js > ...
1 import React from 'react';
2 import ReactDOM from 'react-dom/client';
3 import './index.css';
4 import App from './App';
5 import AppClassUseState from './App';
6
7 const root = ReactDOM.createRoot(document.getElementById('root'));
8 root.render(<AppClassUseState />);
9
```

Самостоятельно вынести в отдельные компоненты оба способа реализации useState

Проект с оператором И в коде JSX (на основе 12-state-via-props)



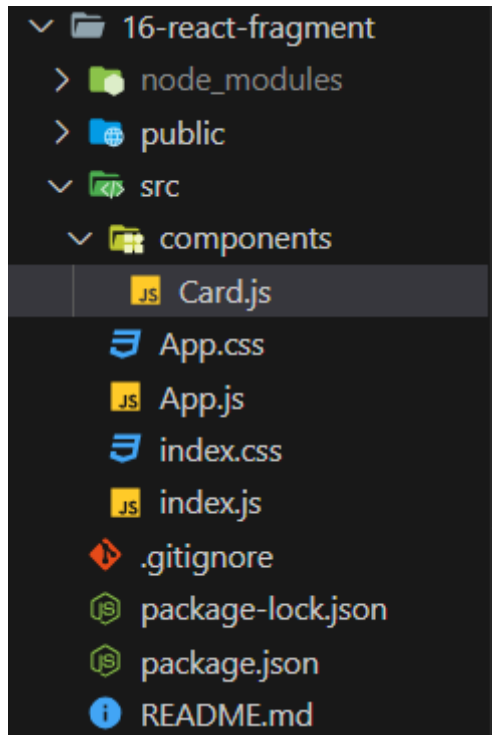


```
<html lang="en">
  <head> ... </head>
  <body>
    <div id="root">
      <div class="App">
        <h1> ... </h1>
        <button>Click me!</button>
        <button>Click me!</button>
        <button>Click me!</button>
        <button>Click me!</button>
        <div> == $0
          <button style="background-color: lightgreen;">Reset</button>
        </div>
      </div>
    </div>
  </div>
```

15-logical-and-operator > src > JS App.js > ...

```
1  import { useState } from 'react';
2  import './App.css';
3  import Button from './components/Button';
4  import Counter from './components/Counter';
5
6  function App() {
7    const [count, setCount] = useState(0);
8    const incrementCount = () => {
9      setCount(count + 1);
10   };
11   const resetCount = () => {
12     setCount(0);
13   };
14
15   return (
16     <div className="App">
17       <Counter countProps={count} />
18       <Button onClick={incrementCount} />
19       <Button onClick={incrementCount} />
20       <Button onClick={incrementCount} />
21       <Button onClick={incrementCount} />
22       {count > 0 && (
23         <div>
24           <button
25             style={{ backgroundColor: 'lightgreen' }}
26             onClick={resetCount}
27           >
28             Reset
29           </button>
30         </div>
31       )}
32     </div>
33   );
34 }
35
36 export default App;
37
```

Проект по использованию React Fragment



Student

I am studying a course on React

Like!

```
<!DOCTYPE html>
<html lang="en">
  <head> </head>
  <body>
    <div id="root">
      <div class="App">
        <div == $0
          <h1>Student</h1>
          <h3>I am studying a course on React</h3>
          <button>Like!</button>
        </div>
      </div>
    </div>
  </body>
</html>
```

```
JS Card.js × JS App.js
16-react-fragment > src > components > JS Card.js > ...
1  const Card = () => {
2    return (
3      <div>
4        <h1>Student</h1>
5        <h3>I am studying a course on React</h3>
6        <button>Like!</button>
7      </div>
8    );
9  };
10
11  export default Card;
12
```

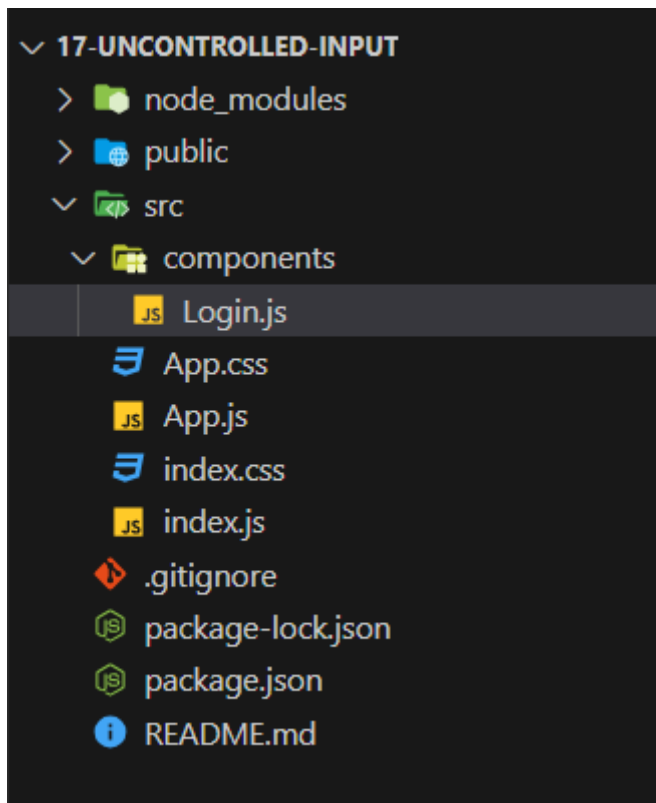
Добавим в проект React Fragment

```
JS Card.js × JS App.js
16-react-fragment > src > components > JS Card.js > [🔗] Card
1  const Card = () => {
2    return (
3      <>
4        <h1>Student</h1>
5        <h3>I am studying a course on React</h3>
6        <button>Like!</button>
7      </>
8    );
9  };
10
11  export default Card;
12
```

```
<!DOCTYPE html>
...<html lang="en"> == $0
  <head>...</head>
  <body>
    <div id="root">
      <div class="App">
        <h1>Student</h1>
        <h3>I am studying a course on React</h3>
        <button>Like!</button>
      </div>
    </div>
  </body>
</html>
```

Проект по неконтролируемым полям ввода

Из проекта 12-state-via-props перенести файлы App.css и index.css



Login Form

Username:

Password:

Login

JS Login.js

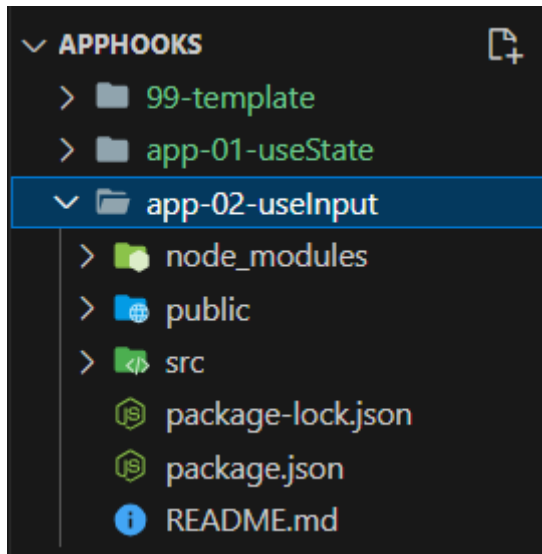


JS App.js

src > components > JS Login.js > Login

```
1  function Login() {
2    return (
3      <>
4        <h1>Login Form</h1>
5        <form>
6          <label>
7            Username: <input type="text"
8              name="username" />
9          </label>
10         <label>
11           Password: <input type="password"
12             name="password" />
13         </label>
14         <button type="submit">Login</button>
15       </form>
16     </>
17   );
18 }
19
20 export default Login;
```


Создание собственного хука useInput



Hello

JS App.js X

app-02-useInput > src > JS App.js > App

```
1  import { useState } from 'react';
2  import React from 'react';
3
4  const useInput = (initialValue) => {
5    const [value, setValue] = useState(initialValue);
6    const onChange = (event) => {
7      console.log(event.target);
8    };
9    return { value, onChange };
10
11  export default function App() {
12    const name = useInput('Mr. ');
13
14    return (
15      <div className="App">
16        <h1>Hello</h1>
17        <input placeholder="Имя" {...name} />
18      </div>
19    );
20  }
21
```

