

Khóa học Front-end ATT Lab - ReactJS

Tổng quan 🎯

1. Sử dụng useState với array và object
 2. Data Binding
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1. Sử dụng useState với array và object

1.1. Sử dụng useState với array

```
import React, { useState } from 'react';

function TodoList() {
  const [todos, setTodos] = useState([
    'Mua sữa',
    'Đi làm bài tập về nhà',
    'Đọc sách',
  ]);

  const addTodo = () => {
    const newTodo = prompt('Enter new todo:');
    if (newTodo) {
      setTodos([...todos, newTodo]);
    }
  };

  const deleteTodo = (index) => {
    const newTodos = [...todos];
    newTodos.splice(index, 1);
    setTodos(newTodos);
  };

  const updateTodo = (index) => {
    const updatedTodo = prompt('Update todo:', todos[index]);
    if (updatedTodo) {
      const newTodos = [...todos];
      newTodos[index] = updatedTodo;
      setTodos(newTodos);
    }
  };

  return (
    <div>
      <h1>Todo List</h1>
      <button onClick={addTodo}>Add Todo</button>
      <ul>
        {todos.map((todo, index) => (
          <li key={index}>
            {todo}
            <button onClick={() => updateTodo(index)}>Update</button>
            <button onClick={() => deleteTodo(index)}>Delete</button>
          </li>
        ))}
      </ul>
    </div>
  );
}
```

```
export default TodoList;
```

1.2. Sử dụng useState với object

```
import React, { useState } from 'react';

function PersonalInfo() {
  const [info, setInfo] = useState({
    name: '',
    age: 0,
    address: '',
  });

  const handleChange = (e) => {
    const { name, value } = e.target;
    setInfo({ ...info, [name]: value });
  };

  return (
    <div>
      <h1>Personal Information</h1>
      <label>
        Name:
        <input type="text" name="name" value={info.name} onChange=
{handleChange} />
      </label>
      <label>
        Age:
        <input type="number" name="age" value={info.age} onChange=
{handleChange} />
      </label>
      <label>
        Address:
        <input type="text" name="address" value={info.address} onChange=
{handleChange} />
      </label>
      <p>Name: {info.name}</p>
      <p>Age: {info.age}</p>
      <p>Address: {info.address}</p>
    </div>
  );
}

export default PersonalInfo;
```

Bài tập

- <https://codesandbox.io/p/sandbox/buoi4-bt3-h3hhv9>

2. Data Binding

```
import React from 'react';

function SearchForm() {
  const [searchTerm, setSearchTerm] = React.useState('cats');

  return (
    <>
      <form>
        <label htmlFor="search-input">
          Search:
        </label>
        <input
          type="text"
          id="search-input"
          value={searchTerm}
          onChange={(event) => {
            setSearchTerm(event.target.value);
          }}
        />
      </form>
      <p>
        Search term: {searchTerm}
      </p>
    </>
  );
}

export default SearchForm;
```

Controlled vs. Uncontrolled inputs

Controlled input

```
import React from "react";

function SearchForm() {
  const [searchTerm, setSearchTerm] = React.useState("");

  const handleSubmit = () => {
    alert(searchTerm)
  }

  return (
    <>
      <form onSubmit={handleSubmit}>
        <label htmlFor="search-input">Search:</label>
        <input
```

```
        type="text"
        id="search-input"
        value={searchTerm}
        onChange={(event) => {
            setSearchTerm(event.target.value);
        }}
    />
</form>

<p>Search term: {searchTerm}</p>

<button type="submit" onClick={handleSubmit}>Click me</button>
</>
);
}

export default SearchForm;
```

Uncontrolled input

```
import React from "react";

function SearchForm() {
    const handleSubmit = () => {
        const formData = new FormData(event.target);
        const { searchInput } = Object.fromEntries(formData);

        // Do something with `username`, like send it
        // to the server.
    }

    return (
        <>
            <form onSubmit={handleSubmit}>
                <label htmlFor="search-input">Search:</label>
                <input
                    type="text"
                    id="search-input"
                    name="searchInput"
                />
            </form>

            <button type="submit" onClick={handleSubmit}>Click me</button>
        </>
    );
}

export default SearchForm;
```

Chú ý (không nên đặt useState ban đầu là undefined)

```
// ❌ Incorrect. `username` will flip from `undefined` to a string:  
const [username, setUsername] = React.useState();  
// => Warning: A component is changing an uncontrolled input to be  
controlled.  
  
// ✅ Correct. `username` will always be a string:  
const [username, setUsername] = React.useState('');
```

Bài tập

- <https://codesandbox.io/p/sandbox/elegant-oskar-8dgzgk>
- <https://codesandbox.io/p/sandbox/delicate-wood-fmflkg>