Modul Pembelajaran [Kode Modul]

[NAMA MODUL]

Pathway	:			
Sub Pathway	:			
Kompetensi	:		_	
Key Element	:			Sesuai Dirkom-10
Level	:		_	
Developer	:		Nama/ NIK/ Bidang	
Approval	:	1. Mgr Learning Development	Atau Nama Vendor	
		2. SM School of Dig Platform & Service		

Modul Pembelajaran	:	React JSX		
Deskripsi Modul	:	State adalah objek React yang digunakan untuk memuat data atau informasi tentang komponen. State component dapat berubah seiring waktu; dan setiap kali ia berubah, komponen dapat di render ulang.		
Enabling Learning Objective	:	Memahami tentang React States, bagaimana definisikan nya, dan mengganti nya dalam komponen		
Daftar Topik	:	 Defining the State Changing the state 		
Searching Keyword	:	 ReactJS States class constructor props setState this.setState() 		









React States

Calvin Susanto Putra

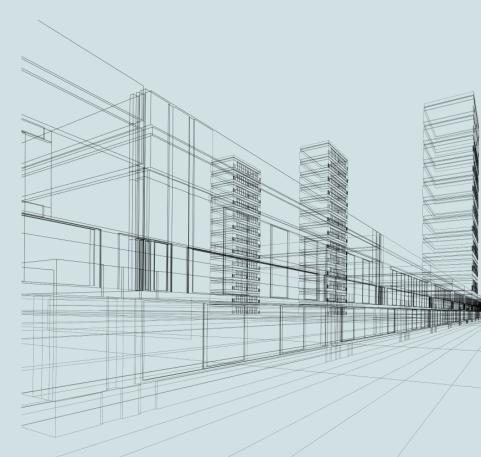


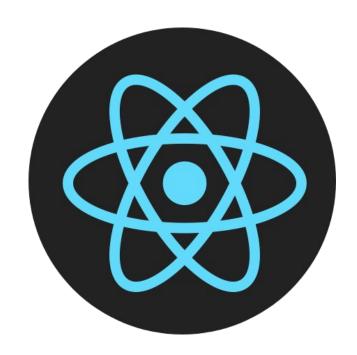
Table of Contents

- a. Defining the state
- b. Changing the state

 A state can be modified based on user action or network changes

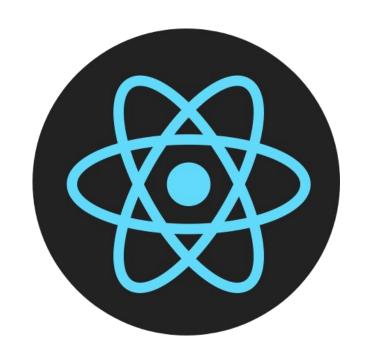
 Every time the state of an object changes, it re-renders the component to the browser

 The state object is initialized in the constructor and can store multiple properties



 this.setState() method is used to change the value of the state object, as well as perform a shallow merge between the new and the previous state

 States are classified as a form of Hooks in React; methods that allow components to use React's inbuilt features without a class constructor



• The setState() method must first be imported:

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

• It must then be declared within the component:

```
const [count, setCount] = useState(0);
```

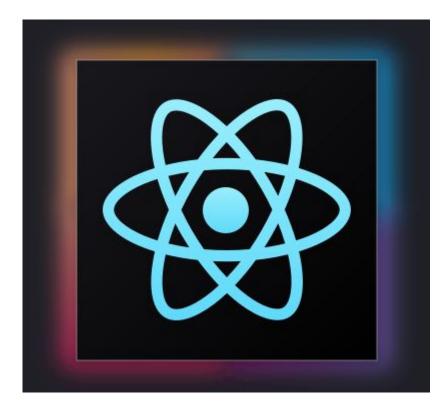
 Only then can the setState method be called to perform a logical task in a component:

```
<div>
   You Clicked: {count} Times 
  <button onClick={ () => setCount(count + 1) }>
    Click Me!
  </button>
</div>
```

 as stated before, the setState() method is used to change the value of an object

 calling or utilizing setState re-renders the entire component and its child components automatically, eliminating the need to use the render function

 changing or updating the state requires the 'this.setState' method, serving as a marker on how a component should respond



 Take this example of a state being used to update a component:

• The state relies on the following utility functions to run properly and render the new value:

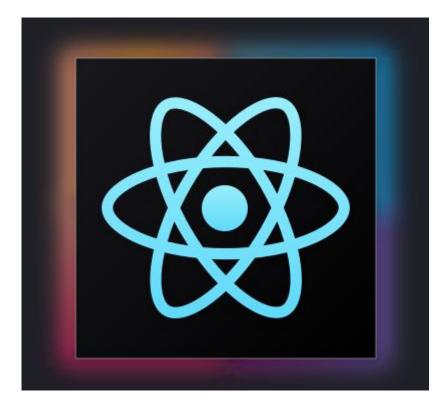
```
this.state = {
   hasBeenClicked: false,
  };
}

handleClick = () => {
   hasBeenClicked: true
}
```

 The above functions could be written in a class constructor or App.js function itself

 when a state gets updated, only the value or property of that state gets passed in, allowing for two boolean values in different functions to merge

 however, this only occurs in the first-level, which means that only one specific value gets updated whilst the rest are overwritten



 An example of state-handling using an array, where the array stores a set of data:

```
const data = () => {
  theme: 'blue',
  addressInfo: {
    street: null,
    number: null,
    city: null,
    country: null
  },
};
```

Let's say we want to update 'addressInfo',
 To merge the data requires the
 'this.setState()' method:

```
this.setState({
   addressInfo: {
     city: "New York City",
   },
});
```

 This updates the selected child value (addressInfo) and overwrites the others:

```
{
  theme: 'blue',
  addressInfo: {
    city: 'New York City',
  },
}
```

References

- https://reactjs.org/docs/state-and-lifecycle.html
- https://reactjs.org/docs/hooks-state.html
- https://www.patterns.dev/posts/reactjs/
- https://learn.co/lessons/react-updating-state





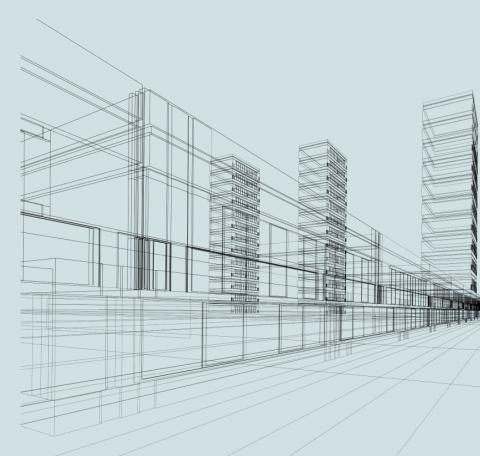




REACTJS

React States

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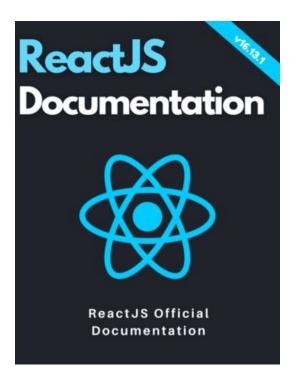


Kelengkapan Modul

- Pre & Post Test (minimal 10 soal, pilihan ganda a-d)
- Pre Reading
- Teaching Notes
- Referensi

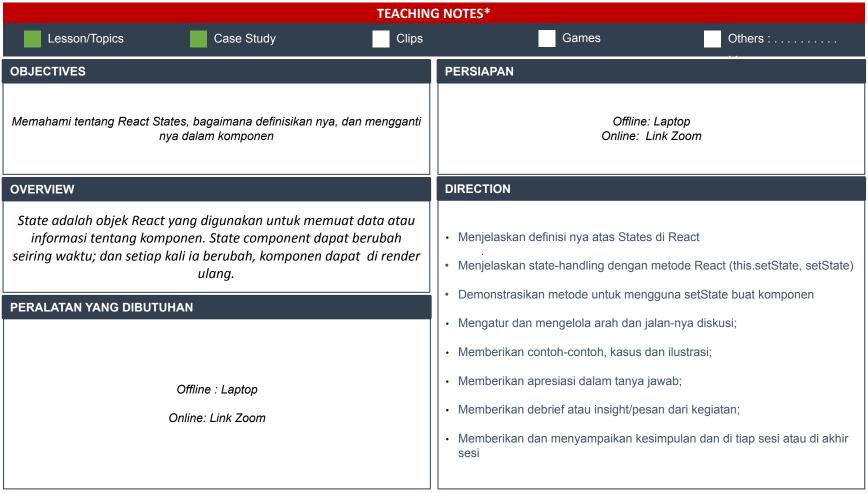
Assessment – [Pre & Post Test]

Pre-Reading



ReactJS is a Javascript library for building user interfaces. This PDF ebook is a portable offline reference guide for the community, can be printed or synced with your kindle for a better reading experience. It's based on ReactJS version v.16.13.1

This is an excellent reference format for ReactJS beginners, is not a tutorial just the official documentation for your reference



TEACHING NOTES 2/2*

DIRECTION								
Section (slide/clip/case/etc)	Activities (Hal apa yang akan dilakukan untuk setiap section-nya)	Description (hal-hal spesifik yang harus dilakukan, misal : penjelasan dan atau penekanan materi, pengelolaan arah dan jalannya diskusi, wrap up/insight atau debrief, etc)						
5-8	Presentasi, Diskusi	Menjelaskan definisi nya atas States di React						
9-15	Presentasi, Diskusi, Case Study	Menjelaskan state-handling dengan metode React (this.setState, setState)						