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 Components	
Deskripsi Modul	:	React components adalah unit atau bagian dari kode yang bisa digunakan berkali-kali. Components merupakan satu hal fundamental dari pembuatan user-interface untuk web.	
Enabling Learning Objective	:	Memahami tentang React JSX dan bagaimana bisa menggunakan nya untuk komponen UI	
Daftar Topik	:	 Functional components Class components 	
Searching Keyword	:	 ReactJS JSX type class component UI 	









REACTJS

React JSX

Calvin Susanto Putra

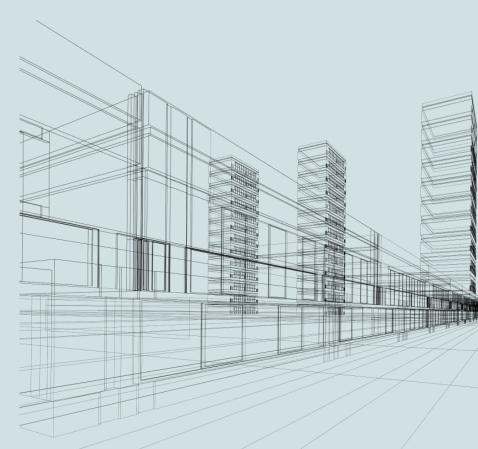
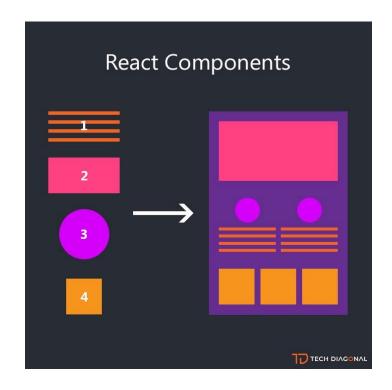


Table of Contents

- a. Functional components
- b. Class components

Functional Components

- are a type of components defined by standard ES6/7 syntax (Pascal case), whether as a normal Javascript or arrow function
- returns HTML elements in JSX or XML format into web-readable Javascript and conversion to web UI components
- is significantly less time-consuming and easier to understand for beginner-level developers



Functional Components

An example of a standard functional component:

As well as a complex arrow function::

Functional Components

- Functional components can also refer or defer to other components for the output; such methods is defined as 'composing' a component
- For example, it is possible to return a single prop or data instance multiple times, as can be seen from the figure on the right
- Is capable of 'hoisting', where variables and functions can be called before declaration

```
function Welcome(props) {
  return
   <h1>
        Hello, {props.name}
    </h1>:
function App() {
  return (
    <div>
      <Welcome name="Telkom University" />
      <Welcome name="iBiG Digital" />
      <Welcome name="iBig Academy" />
    </div>
```

- follows a two-way syntax, beginning with standard ES6 format then extended to a class component
- renders a component virtually and directly

.

- depends on the concurrent state with the 'this.state' method to pass into a class constructor; thus, t is also capable of containing logic
- is considered the more difficult of the two yet comprehensive with its usage of objects and direct rendering methods







https://www.xenonstack.com/blog/functional-vs-class-components

 An example of a basic class component and its render method:

 The render method ensures that the component, in its entirety, is outputted in the UI form

- relies heavily on the React lifecycle methods sourced from the React library that can be used to handle states and even hooks
- Examples of such methods include:
 - a. componentWillMount
 - b. shouldComponentUpdate
 - c. componentDidUpdate

 An example of state-handling in React, note the constructor and super constructor reference

```
class ClassCount extends React.Component {
    constructor(props) {
        super(props);
        this.state = {
        count: 0
     };
}
```

References

- https://reactjs.org/docs/components-and-props.html
- https://medium.com/@desaihetvi/components-in-react-5d72887cc51d
- https://www.xenonstack.com/blog/functional-vs-class-components
- https://www.w3schools.com/react/react_components.asp#:~:text=Components%20are%20independent% 20and%20reusable,will%20concentrate%20on%20Function%20components.





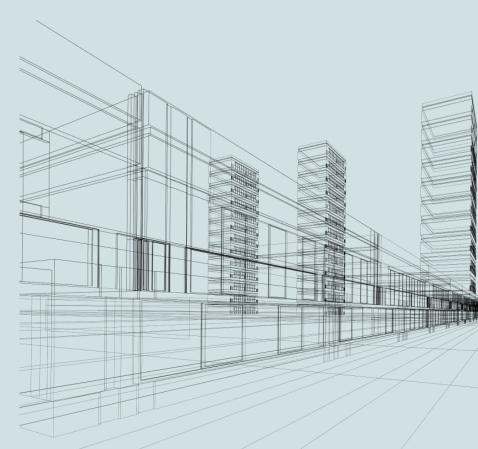




REACTJS

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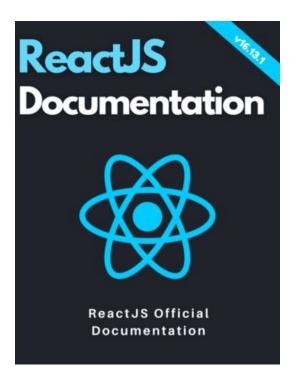


Kelengkapan Modul

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

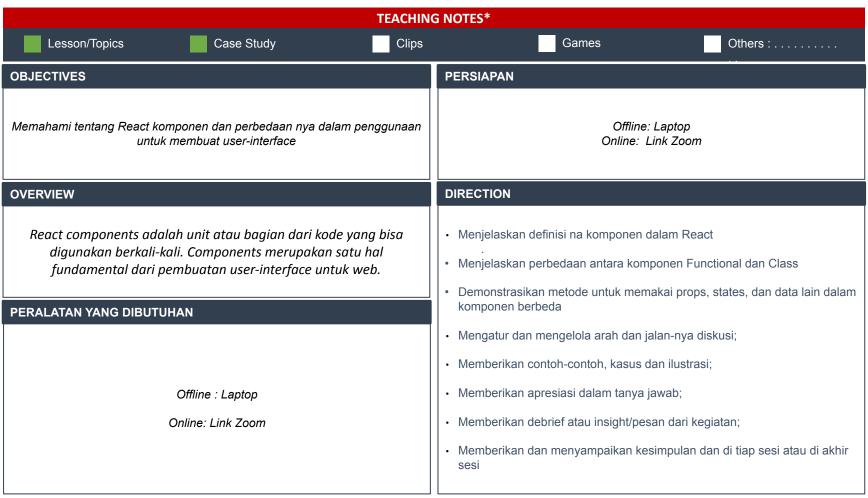
Assessment – [Pre & Post Test]

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)					
5-7	Presentasi, Diskusi	Menjelaskan fitur-fitur Functional components dan kapabilitas nya dalam React					
8-11	Presentasi, Diskusi, Case Study	Menjelaskan tentang Class components, perdebaan nya, dan sistem nya terkait panggunaan class untuk handle states dan props					