Modul Pembelajaran [Kode Modul]

[NAMA MODUL]

Pathway	:	
Sub Pathway	:	
Kompetensi	:	
Key Element	:	
Level	:	
Developer	:	
Approval	:	1. Mgr Learning Development 2. SM School of Dig Platform & Service

Sesuai Dirkom-10

Nama/ NIK/ Bidang
Atau Nama Vendor

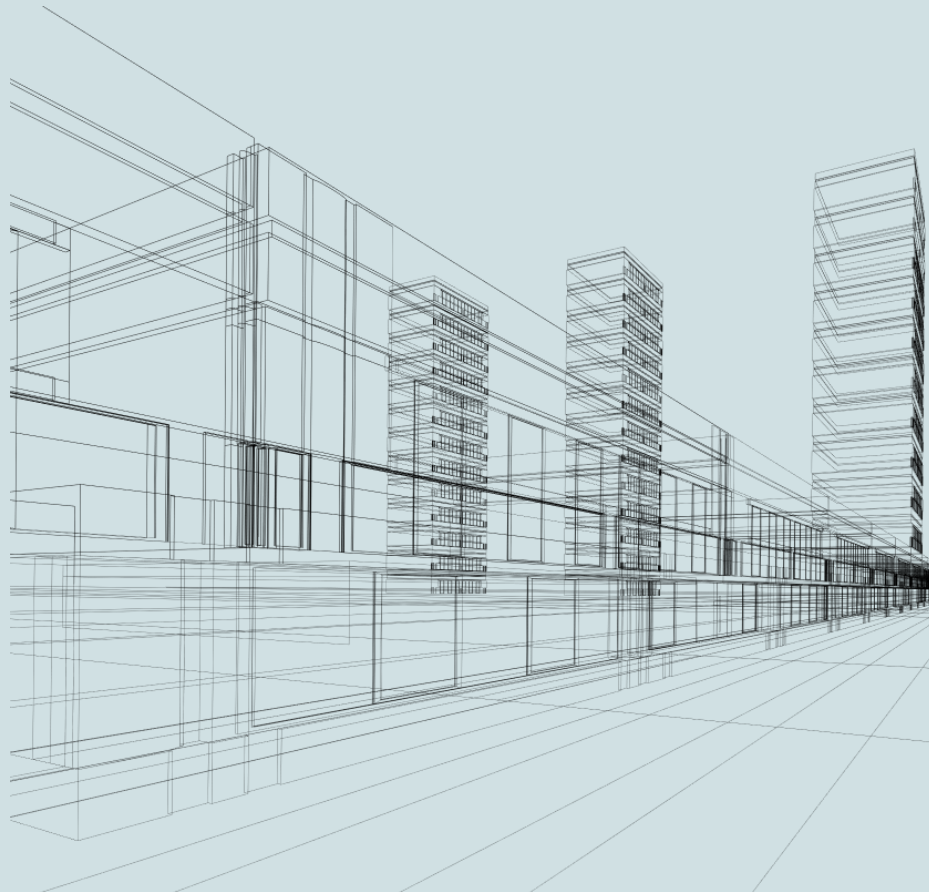|		
Modul Pembelajaran	:	React Props
Deskripsi Modul	:	*Props adalah tipe obyek untuk mengekspresikan sebuah gaya atau event dalam komponen ReactJS.*
Enabling Learning Objective	:	Memahami tentang props, definisi nya, dan penggunaan nya dalam ReactJS.
Daftar Topik	:	1. Default props 2. State and props
Searching Keyword	:	1. ReactJS 2. props 3. states 4. object 5. attributes 6. event-handling

REACTJS

React Props

Calvin Susanto Putra

Table of Contents

Default Props

- Properties, shortened to *props*, are an object type that allows users to handle events and conduct changes to the codes dynamically

- Props are similar to states in that elements could be passed on to another function or component and rendered without implementing additional logic or utility

- The primary difference is that props are immutable, wherein they could not be modified or updated further once it is created or rendered

```
function App() {

  return (
    <div>
        <HelloWorld title="World" />
    </div>
  );
}

function HelloWorld(props) {

  return (
    <h1> Hello {props.title} </h1>
  );
}

export default App;
```

An example of a props used to pass on an element to a component.

Default Props

- Default props denote properties which are kept in the parent component and do not get passed on to any of the child component

- The defaultProps method declares the static behaviour of a given prop when passed on to the previous example:

```
HelloWorld.defaultProps = {
    title:"Telkom University"
}
```

States and Props

- Although both states and props are objects that allow for changes in an element, states are mutable, in that it could constantly be updated and changed according to user needs

- This allows states to be used in dynamic UI components for single-page applications; periodically fetching and storing data to be rendered on a page

Props vs States

States and Props

- Although both states and props allow for changes in an element, states are mutable, in that it could constantly be updated and changed according to user needs

- This allows states to be used in dynamic UI components for single-page applications; periodically fetching and storing data to be rendered on a page

States and Props

- The mutability of states influences the output of a component and could be hidden, whilst props are reliant on a preset input

- Refer to the figure for a complete example of props being used in a to pass to an element within a React project:

```
class HelloWorld extends Component {
    render() {
        return
            <HelloWorld title="World" />
    }
}
```
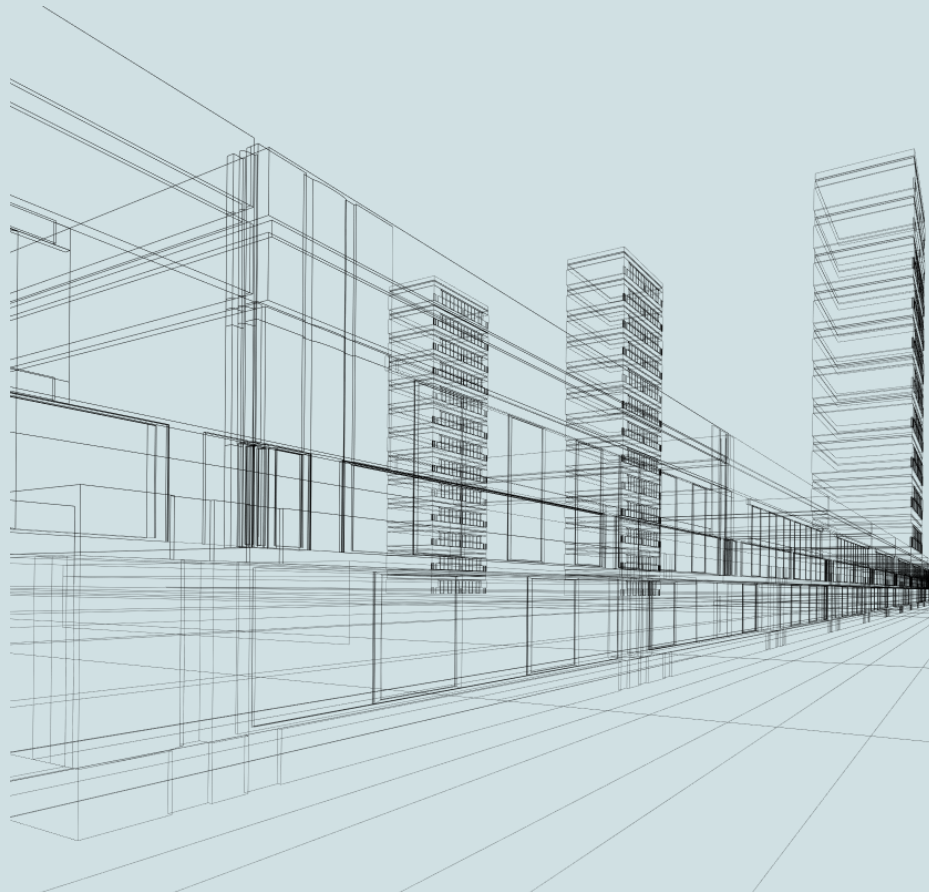
References

- https://www.freecodecamp.org/news/how-to-use-props-in-react/

- https://www.robinwieruch.de/react-pass-props-to-component/

- https://www.w3schools.com/react/react_props.asp

- https://dmitripavlutin.com/react-props/

- https://www.tutorialspoint.com/reactjs/reactjs_props_overview.htm

—

REACTJS

React Props

Calvin Susanto Putra

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*

OBJECTIVES

Memahami tentang props, definisi nya, dan penggunaan nya dalam ReactJS.

PERSIAPAN

Offline: Laptop
Online: Link Zoom

OVERVIEW

Props adalah tipe obyek untuk mengekspresikan sebuah gaya atau event dalam komponen ReactJS.

PERALATAN YANG DIBUTUHAN

Offline : Laptop

Online: Link Zoom

DIRECTION

- Menjelaskan definisi dan penggunaan props untuk mengubah elemen dalam React

- Demontrasikan pemakaian props untuk mengasih nilai baru ke dalam elemen lain

- Menjelaskan perbedaan diantara props dan states

- Mengatur dan mengelola arah dan jalan-nya diskusi;

- Memberikan contoh-contoh, kasus dan ilustrasi;

- Memberikan apresiasi dalam tanya jawab;

- Memberikan debrief atau insight/pesan dari kegiatan;

- Memberikan dan menyampaikan kesimpulan dan di tiap sesi atau di akhir sesi

***Catatan :** jumlah halaman teaching Note dapat ditambah seauai kebutuhan*

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)
5-6	Presentasi, Diskusi	Menjelaskan definisi dan penggunaan props untuk memgubah elemen dalam React
7-9	Presentasi, Diskusi, Case Study	Menjelaskan perbedaan props dan states dalam React