Assignment Week 3

Framework Based Programming



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PROGRAM STUDI D-IV TEKNIK INFORMATIKA
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Experiment

A. Creating Stateless & Stateful Component

By reusing our previous project, create Hello!, we will create a component using a stateless component.

```
No
                                                      Step
1
        Open the react page by using npm start
2
        Open index.j
3
        Create a new function with hello component (stateless component)
                 import React from 'react';
                 import ReactDOM from 'react-dom';
                 import './index.css';
                 const HelloComponent=() => {
                   return Hello Component!;
                 ReactDOM.render(<HelloComponent />,document.getElementById('root'));
4
        Run in the browser and note the result
                      C
                             ▲ Tidak aman | 192.168.2.106:3000
           Apl M Gmail
                                      YouTube
                                                 Apps Notes
                                                                          UI/UX
        Hello Component!
5
        Create a class component / stateful component by calling react .component and
        call StateFullComponent in react
          File Edit Selection View Go Run Terminal Help
                                                                               index.is - week3 - Visual Studio Code
                reactku > src > 🖪 index.js > ધ StateFullComponent > 🏵 render import React from 'react';
                  const HelloComponent=() => {
  return HelloComponent;
                  class StateFullComponent extends React.Component{
                   render() {
              14
```

B. Creating Props

Props or properties are used to hold values that will later be sent to a Component.

C. Displaying Props

```
No

Write the following program code

web-reactku > src > src | src | default

import React, {Component} from "react";

// Class Component Header

class Header extends Component {

render() {

return (

div>

header | class Header | class Header |

chase | class Header |

div>

header | class Header |

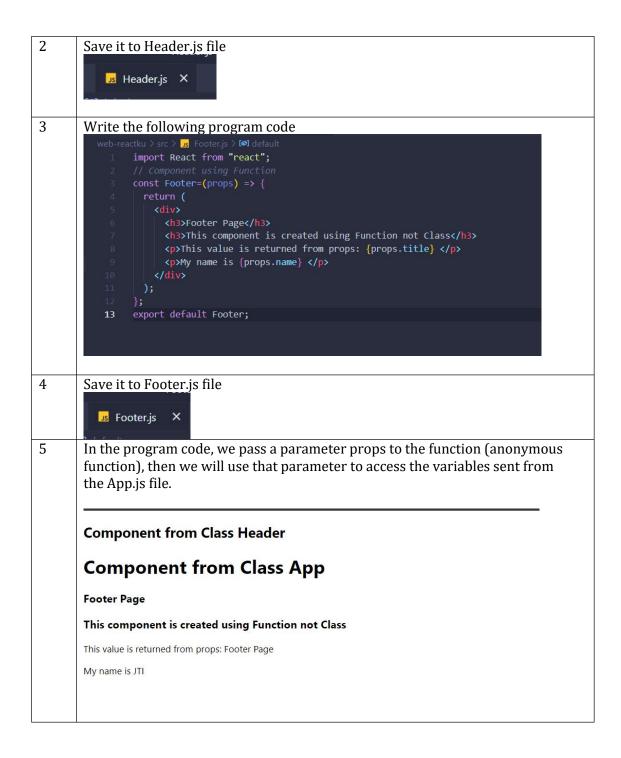
chase | class Header |

div>

export default Header;

return | class Header |

export default Header;
```



D. Props on Class Component

Example:

We want to display multiple images in the component list, where the component list will use the component images.

Component List

Component Image

```
No
                                                  Step
1
        Write the following program code
                import React,{Component} from "react";
                // Class Component Image
class Image extends Component {
                 render() {
                   return <img src={this.props.linkImg} alt="Food" width="500" />;
                export default Image;
2
        How to access it using this.props.linkImg
3
        That way, each image that appears will call a different src value, based on
        what we have specified in the Component List.
4
        Make sure to call App on react (index.js)
         ReactDOM.render(<App/>, document.getElementById("root"));
```



5 The results given are as follows

Component from Class Header

Component from Class App







Footer Page

This component is created using Function not Class

This value is returned from props: Footer Page

My name is JTI

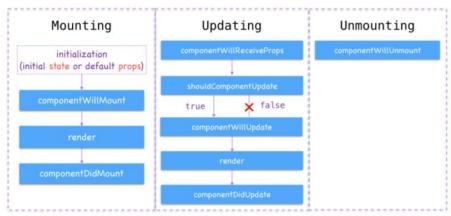
E. Lifecycle Component

Components — components in react will go through at least three phases as follows:

- a. Mounting
- b. Updating
- c. Unmounting

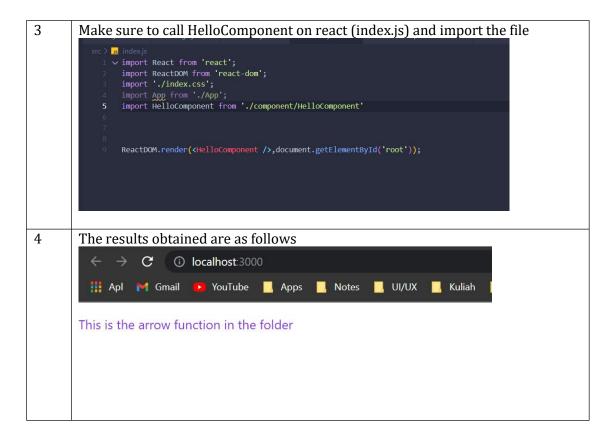
In each phase, components will execute different functions or methods known as lifecycle methods.

For more details, see the image below



Source: https://rangle.github.io/react-training/react-lifecycles/

```
No
                                            Step
1
       In addition to being able to create stateless component files in the component
       folder, we can also add css files as shown in the following image (we
       recommend that the css file name be the same as the js file name), then add the
       following program code.
         src > component > 🗦 HelloComponent.css > 😘 .text-p
                 .text-p{
                   color: blueviolet;
            2
       After that, import HelloComponent.css in HelloComponent.js as shown below
              import React from "react";
              import "./HelloComponent.css";
                return This is the arrow function in the folder
              export default HelloComponent;
```



TASK

1. Create a login menu as shown in the following image, using components and CSS. Upload the source code and screenshots for your result into your Github repository. Provide your repository link on assignment submission in LMS.



Result:

