Assignment Week 2

Framework-Based Programming



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PROGRAM STUDI D-IV TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

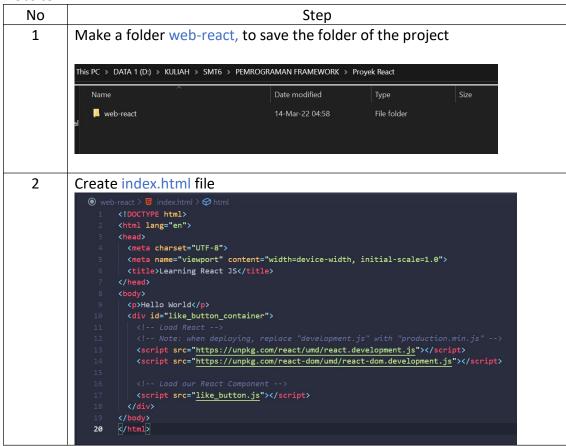
Link Repository: https://github.com/widiarsaf/web-reactku

A. NodeJS Installation

No	Step
1	Because I've installed node js before, so I'm just verifying the installation
2	Installation Verification
	Open a command prompt or PowerShell, and enter the command node –v
	The system will display the version of Node.js installed on your system. Next
	do the same for NPM by entering the command npm –v
	C:\Windows\system32\cmd.exe
	Microsoft Windows [Version 10.0.18363.836] (c) 2019 Microsoft Corporation. All rights reserved.
	C:\Users\WINDOWS 10>node -v v14.17.0
	C:\Users\WINDOWS 10>npm -v 6.14.13
	C:\Users\WINDOWS 10>

B. Adding React to the website

In addition to using the Command Line Interface (CLI), we can also add react to the website.





C. React-app Installation

create-react-app is the program used to create React projects. This program will generate all the things we need for the initial project. Starting from package.json, index.html file, index.js file, and so on.

There are two ways to use it, which are as follows:

- Install it first, then use it
- Used directly with NPX

No	Step
1	Specify the location to install react
2	If the position is already in the folder, type the following command: npm install -g create-react-app D:\KULIAH\SMT6\PEMROGRAMAN FRAMEWORK\Proyek React>npm install -g create-react-app npm WARN deprecated tar@2.2.2: This version of tar is no longer supported, and will not re ceive security updates. Please upgrade asap. C:\Users\WINDOWS 10\AppData\Roaming\npm\create-react-app -> C:\Users\WINDOWS 10\AppData\Ro aming\npm\node_modules\create-react-app\index.js + create-react-app@5.0.0 added 2 packages from 2 contributors, removed 2 packages and updated 11 packages in 10.4s

To check whether the installation was successful or not, type the following command:

create-react-app --version

D:\KULIAH\SMT6\PEMROGRAMAN FRAMEWORK\Proyek React>create-react-app --version 5.0.0

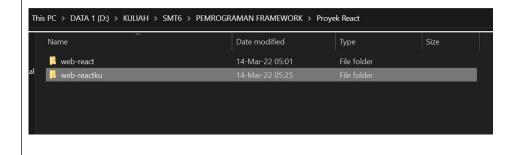
D:\KULIAH\SMT6\PEMROGRAMAN FRAMEWORK\Proyek React>

3 Type the following command to to execute the defined file in it:

create-react-app web-reactku cd web-reactku npm Start

```
Windows PowerShell
    Starts the test runner.
    Removes this tool and copies build dependencies, configuration files and scripts into the app directory. If you do this, you can't go back!
 le suggest that you begin by typing:
 cd web-reactku
Happy hacking!
D:\KULIAH\SMT6\PEMROGRAMAN FRAMEWORK\Proyek React>cd web-reactku
D:\KULIAH\SMT6\PEMROGRAMAN FRAMEWORK\Proyek React\web-reactku>npm start
 web-reactku@0.1.0 start D:\KULIAH\SMT6\PEMROGRAMAN FRAMEWORK\Proyek React\web-reactku
 react-scripts start
(node:17912) [DEP_WEBPACK_DEV_SERVER_ON_AFTER_SETUP_MIDDLEWARE] DeprecationWarning: 'onAfterSetupMiddlew
(Use `node --trace-deprecation ...` to show where the warning was created)
(node:17912) [DEP_WEBPACK_DEV_SERVER_ON_BEFORE_SETUP_MIDDLEWARE] DeprecationWarning: 'onBeforeSetupMiddl
Starting the development server...
  ompiled successfully!
You can now view web-reactku in the browser.
 Local: http://localhost:3000
On Your Network: http://192.168.2.109:3000
```

If the project has been created, there will be a new folder called webreactku on the folder where the command was executed.



Now, try to open the folder with VS Code. Click the File menu Open Folder, then find the folder.

```
EXPLORER

WINTITLED (WORKSPACE)

Web-reactku

No mode modules

App.js

App.js

Mebreactku

No mode modules

App.js

App.js

App.js

Mebreactku

No mode modules

App.js

App.css

App.js

App.css

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App.cs

Ap
```

To run it, type the following command in Terminal: npm start

```
Compiled successfully!

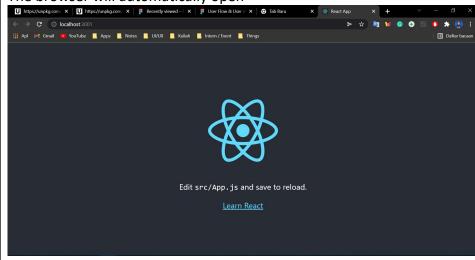
You can now view web-reactku in the browser.

Local: http://localhost:3001
On Your Network: http://192.168.2.109:3001

Note that the development build is not optimized.
To create a production build, use npm run build.

assets by path static/ 1.49 MiB
asset static/js/plundle.js 1.48 MiB [emitted] (name: main) 1 related asset
asset static/js/node_modules_web-vitals_dist_web-vitals_js.chunk.js 6.93 KiB [emitted] 1 related asset
asset static/media/logo.6ce24c58023cc2f8fd88fe9d219db6c6.svg 2.57 KiB [emitted] (auxiliary name: main)
asset index.html 1.67 KiB [emitted]
```

The browser will automatically open



There is a rendering process code in the DOM In the rendering parameter there are two ReactDOM.render(element, container[, callback]) https://reactjs.org/docs/react-dom.html#render ndex.js index.js web-reactku > src > 1 index.js import ReactTOM from 'react-dom'; import App from './App'; import reportWebVitals from './reportWebVitals'; ReactDOM.render(ReactDOM.render(ReactDOM.render(React.StrictMode) //React.StrictMode>, //React.StrictMode>,
In the rendering parameter there are two ReactDOM.render(element, container[, callback]) https://reactjs.org/docs/react-dom.html#render ndex.js index.js
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ReactDOM.render(element, container[, callback]) https://reactjs.org/docs/react-dom.html#render ndex.js index.js web-reactku > src > in index.js import React from 'react'; import ReactDOM from 'react-dom'; import './index.css'; import App from './App'; import reportWebVitals from './reportWebVitals'; ReactDOM.render(«React.StrictMode) (App />
https://reactjs.org/docs/react-dom.html#render ndex.js index.js web-reactku > src > index.js import React from 'react'; import ReactDOM from 'react-dom'; import App from './App'; import reportWebVitals from './reportWebVitals'; ReactDOM.render(«React.StrictMode) (App />
<pre>index.js index.js web-reactku > src > ind index.js import React from 'react'; import ReactDOM from 'react-dom'; import './index.css'; import App from './App'; import reportWebVitals from './reportWebVitals'; ReactDOM.render(</pre>
<pre>index.js X (a) web-reactku > src > 1 index.js 1 import React from 'react'; 2 import ReactDOM from 'react-dom'; 3 import './index.css'; 4 import App from './App'; 5 import reportWebVitals from './reportWebVitals'; 6 7 ReactDOM.render(8</pre>
<pre>index.js X (a) web-reactku > src > 1 index.js 1 import React from 'react'; 2 import ReactDOM from 'react-dom'; 3 import './index.css'; 4 import App from './App'; 5 import reportWebVitals from './reportWebVitals'; 6 7 ReactDOM.render(8</pre>
<pre>import React from 'react'; import ReactDOM from 'react-dom'; import './index.css'; import App from './App'; import reportWebVitals from './reportWebVitals'; ReactDOM.render(</pre>
<pre>import ReactDOM from 'react-dom'; import './index.css'; import App from './App'; import reportWebVitals from './reportWebVitals'; ReactDOM.render(</pre>
<pre>import './index.css'; import App from './App'; import reportWebVitals from './reportWebVitals'; ReactDOM.render(</pre>
<pre>import reportWebVitals from './reportWebVitals'; ReactDOM.render(</pre>
<pre>ReactDOM.render(React.StrictMode> <pre></pre></pre>
8
9 <app></app>
10 ,
document.getElementById('root')
12);
13 14 // If you want to start measuring performance in your app, pass a function
15 // to log results (for example: reportWebVitals(console.log))
16 // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals 17 reportWebVitals();
17 reportwebvitais(); 18
o on line 7 there are 2 to be rendered
Component App (in src/ App.js)
Id=root in index.html(in public/index.html) on line 31
id-100t in index.iitiiii(iii public/index.iitiiii) on iiile 31

index.html

```
rreactku > public > ⑤ index.html > ② html > ② head > ② link

<
      cmeta
  name="description"
  content="Web site created using create-react-app"
       concent ins
/>
clink rel="apple-touch-icon" href="%PUBLIC_URL%/logo192.png" />
clink rel="apple-touch-icon" href="%PUBLIC_URL%/logo192.png" />

      | Solink rel="manifest" href="%PUBLIC_URL%/manifest.json" / Solite>React App</tibe>
    </head>
<br/>
<br/>
<br/>
<br/>
<head>
<br/>
<br/>
<hood>
<br/>
<noscript>You need to enable JavaScript to run this app.</noscript>
<div id="root"></div></ti>
```

Components/functions App in src/App.js, then in index.js on line 4 the App is imported

App.js

index.js

E. Creating Hello Components Using Arrow Function

