WEEK 2

Jobsheet 2

Lecturer

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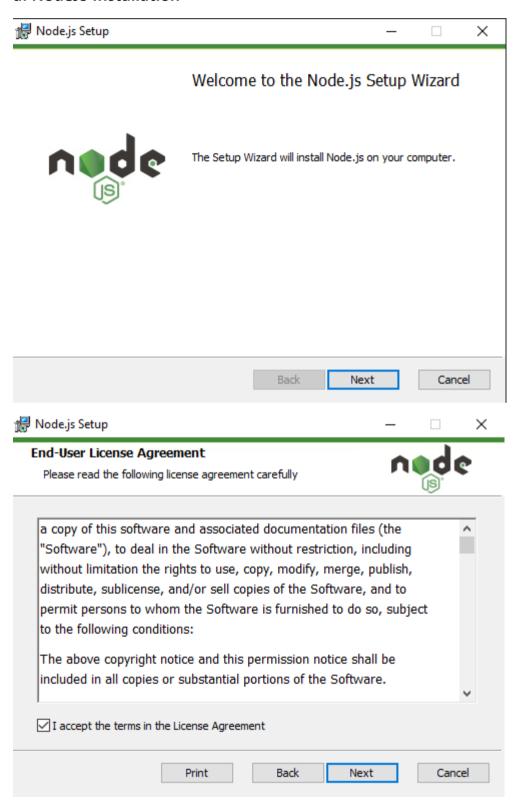
Abdul Rohman / 1941720022 D4 T.Informatika (3H)

PROGRAM STUDI D-IV TEKNIK INFORMATIKA JURUSAN TEKNOLOGI INFORMASI POLITEKNIK NEGERI MALANG 2022



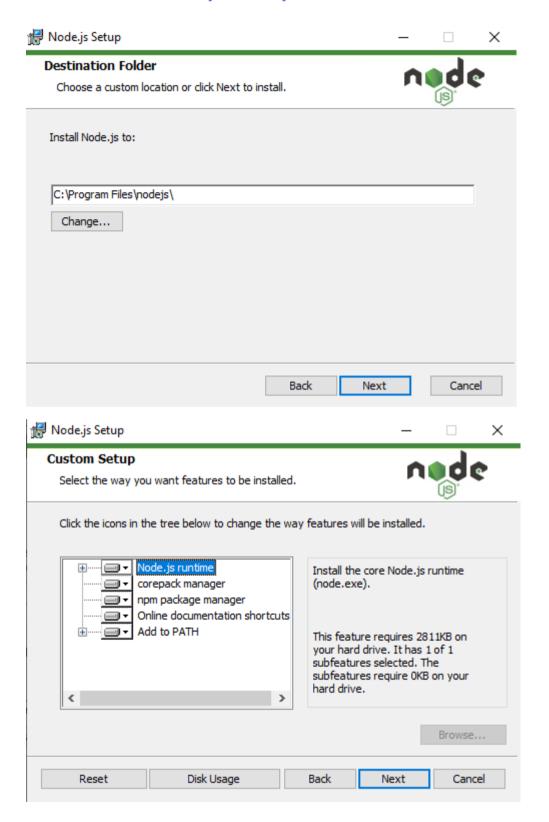
Experiment

a. NodeJS Installation

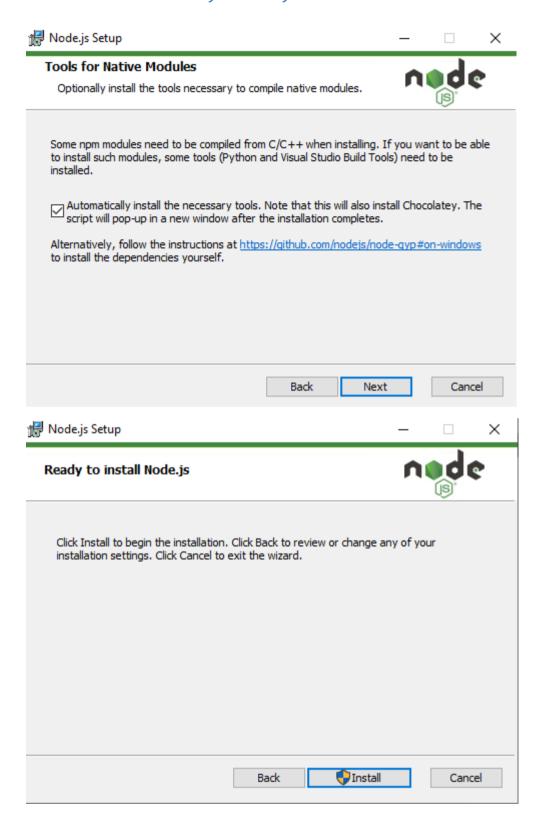














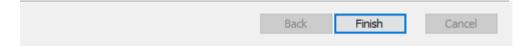


Completed the Node.js Setup Wizard

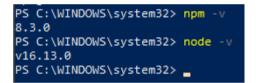


Click the Finish button to exit the Setup Wizard.

Node.js has been successfully installed.

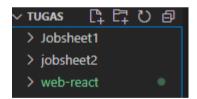


Check Node and Npm



b. Adding React to the website

Make a folder learn-react/week-2/web-react





Create index.html file

```
web-react > ♦ index.html > ♦ html > ♦ body > ♦ script

        ⟨ spread.html Jobs...
        1
        ⟨!DOCTYPE html⟩

        ⟨ restO.html Jobshe...
        2
        ⟨html leng="en"⟩

        ⟨ class.html Jobshe...
        3
        ⟨head⟩

        J5 classis Jobsheet1
        4
        ⟨meta classification

                                           <meta name="viewport" content="width=device-width, initial-scale=1.0">
      Js restO.js Jobsheet1 6
Js spread.js Jobsheet1 7
      JS spread.js Jobsheet1
                                                              Learning ReactJS
  JS spreadys Jobsheet1 8

X ↔ index.html... U 9

JS like_buttonj... U 10
∨ TUGAS
                                                               Hello World
 > Jobsheet1

<div id="like_button_container"></div>
<script src="https://unpkg.com/react0/u</pre>
 > iobsheet2
 ✓ web-react
                                                         <script src="https://unpkg.com/react@/umd/react.development.js" crossorigin>
                                                        <script src="https://unpkg.com/react-dom@/umd/react-dom.development.js" crossorigin></script>
  JS like button.js U
                                                         <script src="like_button.js"></script>
```

After that, create a js file with the name like_button.js

```
EXPLORER
                                                            JS spread.js
                                                                                                                     JS I
                                          JS restO.js
                                                                              JS array.js
                                                                                                index.html U

∨ OPEN EDITORS

                           web-react > JS like_button.js > ♦ LikeButton
                             const e = React.createElement;
     spread.html Jobs...
     restO.html Jobshe...
     function LikeButton(){
    JS class.js Jobsheet1 5
JS restO.js Jobsheet1 6
JS spread.js Jobsheet1 7
JS array.js Jobsheet1 8
                                        return e(
                                                 onClick: () => alert('success')
     o index.html... U
   X JS like_button.j... U

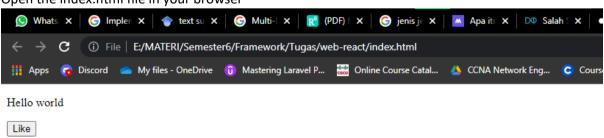
∨ TUGAS

  > Jobsheet1
 > jobsheet2

✓ web-react

  index.html
                                   const domContainer = document.querySelector('#like_button_container');
                                   ReactDOM.render(e(LikeButton), domContainer);
```

Open the index.html file in your browser



C. React-app Installation



template.html

Open the index.html file in your browser

If the position is already in the folder, type the following command:

```
MINGW64:/e/MATERI/Semester6
 create-react-app web-reactku
 reating a new React app in E:\MATERI\Semester6\web-reactku.
Installing packages. This might take a couple of minutes.
 installing react, react-dom, and react-scripts with cra-template...
added 1366 packages in 4m
169 packages are looking for funding
  run `npm fund` for details
Initialized a git repository.
Installing template dependencies using npm...
npm WARN deprecated source-map-resolve#deprecated
added 38 packages in 19s
169 packages are looking for funding
  run `npm fund` for details
Removing template package using npm...
 emoved 1 package, and audited 1404 packages in 8s
169 packages are looking for funding
 run `npm fund` for details
 moderate severity vulnerabilities
To address all issues (including breaking changes), run:
 npm audit fix --force
Run `npm audit` for details.
 reated git commit.
```

Wait a minute, it will automatically open a web page with the address localhost:3000. If there is an error type the following command

```
We suggest that you begin by typing:

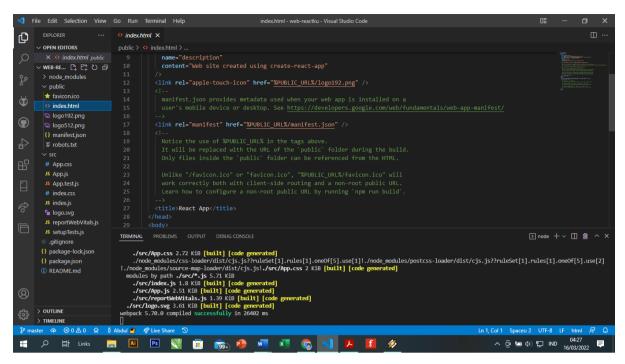
cd jobsheet2
npm start

Happy hacking!

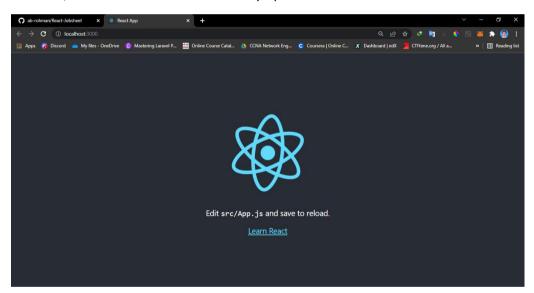
Abdul Rohman@Asus456Ux MINGW64 /e/MATERI/Semester6/Framework/Tugas (master)
$
```

Now, try to open the folder with VS Code. Click the File menu 2 Open Folder, then find the folder





To run it, The browser will automatically open



d. React Project Structure

The first time react will run in the src index.js folder on line 7

- 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

index.js



```
EXPLORER
                                                              JS like_button.js U
                                                                                    JS index.js
                          JS array.js
                                           index.html U
                                                                                                     JS arrowf.js
OPEN EDITORS
                        jobsheet2 > src > JS index.js
                         1 import React from 'react';
    restO.html Jobshe...
                                import ReactDOM from 'react-dom';
    class.html Jobshe...
    JS class.js Jobsheet1
                         4 import App from './App';
    JS restO.js Jobsheet1
                         5 import reportWebVitals from './reportWebVitals';
    JS spread.js Jobsheet1 6
   ondex.html... U 8

JS like_button.j... U 9

JS index in
                               ReactDOM.render(
                                 <React.StrictMode>
 × JS index.js jobsheet2\... 10
                                 </React.StrictMode>,
                                 document.getElementById('root')
TUGAS [♣ □ ひ ⑤
> Jobsheet1
v iobsheet2
                                // If you want to start measuring performance in your app, pass a function
 > public
                               reportWebVitals();
 ∨ src
  # App.css
  JS App.js
  JS App.test.js
  # index.css
  JS index.js
```

index.html

```
EXPLORER
                          JS array.js
                                            o index.html web-react U
                                                                        JS like_button.js U

    index.html ...\public ×

OPEN EDITORS
                         jobsheet2 > public > ↔ index.html > ↔ html > ↔ head
    restO.html Jobshe...
                                      <link rel="manifest" href="%PUBLIC_URL%/manifest.json" />
    class.html Jobshe...
    JS class.js Jobsheet1
    JS restO.js Jobsheet1
    Js spread.js Jobsheet1
    JS array.js Jobsheet1
    JS like_button.j... U
                                     <title>React App</title>
TUGAS
> Jobsheet1

✓ jobsheet2

                                     <noscript>You need to enable JavaScript to run this app.
                                     <div id="root"></div>

∨ public

 * favicon.ico
  index.html
 🖾 logo192.png
 🖾 logo512.png
 {} manifest.json

    robots.txt

  # App.css
  JS App.js
  JS App.test.js
```

App.js



```
EXPLORER
                           JS array.js
                                            index.html U
                                                                JS like_button.js U
                                                                                     JS App.js

∨ OPEN EDITORS

                          jobsheet2 > src > JS App.js > ...
                                 import logo from './logo.svg';
     restO.html Jobshe...
                                 import './App.css';
     class.html Jobshe...
     JS class.js Jobsheet1
                            4 function App() {
     JS restO.js Jobsheet1
                                  return (
     JS spread.js Jobsheet1
                                    <div className="App">
     JS array.js Jobsheet1
                                        <header className="App-header">
     o index.html... U
                                          <img src={logo} className="App-logo" alt="logo" />
     JS like_button.j... U
                                           Edit <code>src/App.js</code> and save to reload.
   X JS App.js jobsheet2\src

∨ TUGAS

                                            className="App-link"
   index.html
                                            href="https://reactjs.org"
   logo192.png
                                            target="_blank"
   logo512.png
                                            rel="noopener noreferrer"
   {} manifest.json

≡ robots.txt

                                            Learn React

✓ src

   # App.css
                                      </div>
    JS App.js
    JS App.test.js
    # index.css
                            24
   Js index.js
                                 export default App;
```

Index.js

```
📢 File Edit Selection View Go Run Terminal Help
                                                                   index.js - Tugas - Visual Studio Code
        EXPLORER
                                 JS array.js
                                                                      JS like_button.js U
                                                                                            JS index.js
宀

∨ OPEN EDITORS

                                jobsheet2 > src > JS index.js
                                1 import React from 'react';
           restO.html Jobshe...
                                  2 import ReactDOM from 'react-dom';
            class.html Jobshe...
                               import reaction
import './index.css';
import App from './App';
import reportWebVitals from './reportWebVitals';
           JS class.js Jobsheet1
           JS restO.js Jobsheet1
           Js spread.js Jobsheet1 6
           JS array.js Jobsheet1 7 ReactDOM.render(

◇ index.html... U 8 <React.StrictMo

JS like button.i... U 9 <App />
                                        <React.StrictMode>
JS like_button.j... U
         ✓ TUGAS
                                      // to log results (for example: reportWebVitals(console.log))
          🖾 logo192.png
         logo512.png
{} manifest.json
                                17 reportWebVitals();

    robots.txt

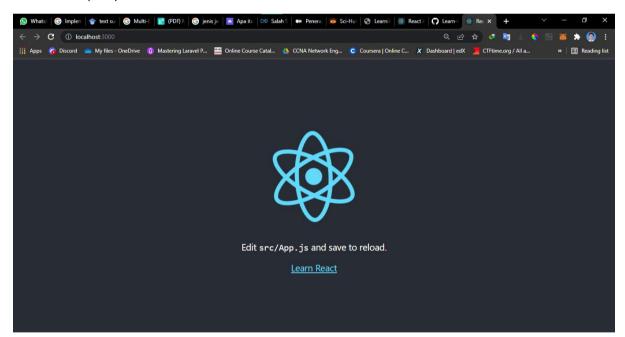
          # App.css
         JS App.js
JS App.test.js
          # index.css
         JS index.js
```

e. Creating Hello Components Using Arrow Function



1. Open the index.js file in src and add an arrow function with the name Hello

2. Run and open your browser



THANK YOU