Jobsheet Report

Week 2: ReactJS

FRAMEWORK-BASED PROGRAMMING

Baggio Deroger 1941720238 – TI 3H April 2022 1. NodeJS installation and version checking:

```
Microsoft Windows [Version 10.0.19044.1645]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ASUS>node -v
v16.13.0

C:\Users\ASUS>npm -v
```

2. Creating index file:

C:\Users\ASUS>

8.5.1

```
    index.html >   html >   body >   p

WEB-RE... [♣ 🛱 🖔 🗗
                          1 <!DOCTYPE html>
index.html
                              <html lang="en">
JS like_button.js
                                  <meta charset="UTF-8" />
                                  <meta http-equiv="X-UA-Compatible" content="IE=edge" />
                                  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
                                  <title>Learning React</title>
                                   Hello world, it's Baggio <br />
I would like to show you this awesome button
                                  <div id="like_button_container"></div>
                                   src="https://unpkg.com/react@16.13.0/umd/react.development.js"
                                   crossorigin
                                  src="https://unpkg.com/react-dom@16.13.0/umd/react-dom.development.js"
crossorigin
                                   <script src="like_button.js"></script>
```

3. Creating button file:

```
JS like_button.js > ...
      const e = React.createElement;
      function LikeButton() {
        return e(
          "button",
            onClick: () => alert("success"),
            style: {
              color: "white",
              backgroundColor: "blue",
              height: "50px",
              width: "100px",
              borderRadius: "5px",
              border: "none",
              boxShadow: "none",
              cursor: "pointer",
            },
          },
          "Like"
        );
      const domContainer = document.querySelector("#like_button_container");
      ReactDOM.render(e(LikeButton), domContainer);
24
```

4. Opening index file on browser:



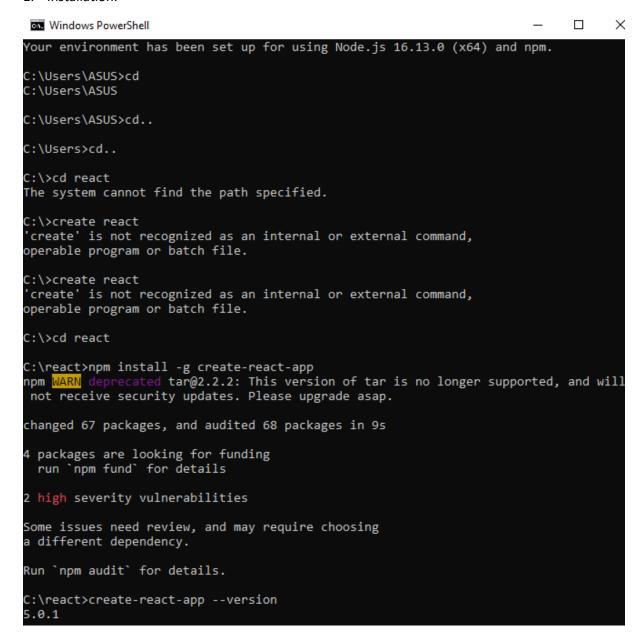
Hello world, it's Baggio

I would like to show you this awesome button



React app:

1. Installation:



```
:\react>create-react-app web-reactku
 reating a new React app in C:\react\web-reactku,
Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...
added 1379 packages in 3m
176 packages are looking for funding
run `npm fund` for details
Initialized a git repository.
Installing template dependencies using npm...

npm WARM deprecated source-map-resolve@0.6.0: See https://github.com/lydell/source-map-resolve@deprecated
added 39 packages in 24s
176 packages are looking for funding
run `npm fund` for details
 lemoving template package using npm...
 removed 1 package, and audited 1418 packages in Bs
176 packages are looking for funding
run `npm fund` for details
6 moderate severity vulnerabilities
To address all issues (including breaking changes), run:
npm audit fix --force
Run "npm audit" for details.
Created git commit.
```

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

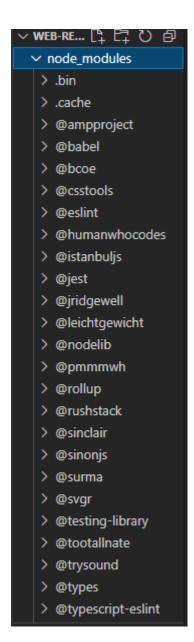
2. Web page with the address localhost:3000:



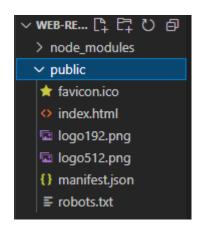
3. Opening the folder with VS Code. File menu \Diamond Open Folder, then find the folder.

```
EXPLORER
                       JS App.js
                                  ×
∨ WEB-REACTKU
                       src > JS App.js > ...
                       1 import logo from './logo.svg';
 > node_modules
                        2 import './App.css';
 > public
                         4 function App() {
 # App.css
 JS App.js
                                 <div className="App">
  JS App.test.js
                                  <header className="App-header">
                                      <img src={logo} className="App-logo" alt="logo" />
  # index.css
  JS index.js
                                      Edit <code>src/App.js</code> and save to reload.
  logo.svg
 JS reportWebVitals.js 12
 JS setupTests.js
                                      className="App-link"
href="https://reactjs.org"
 gitignore
() package-lock.json
                                       target="_blank"
                                      rel="noopener noreferrer"
{} package.json
① README.md
                                      Learn React
                              export default App;
```

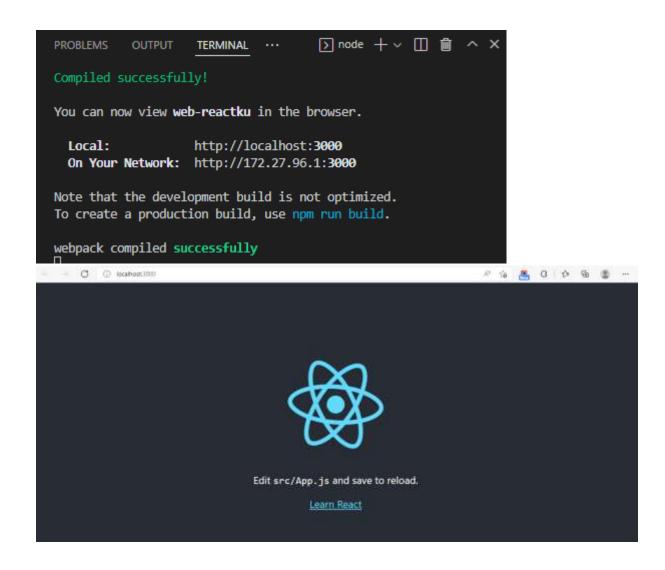
Node modules:



Public:



4. Running the following command in Terminal: npm start



Creating Hello Components Using Arrow Function

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

2. Run and opening the browser:

```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

Compiled successfully!

You can now view web-reactku in the browser.

Local: http://localhost:3000
On Your Network: http://172.27.96.1:3000

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

webpack compiled successfully
```

