Pemrograman Berbasis Framework

Week 2 : ReactJs

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PROGRAM STUDI D-4 TEKNIK INFORMATIKA
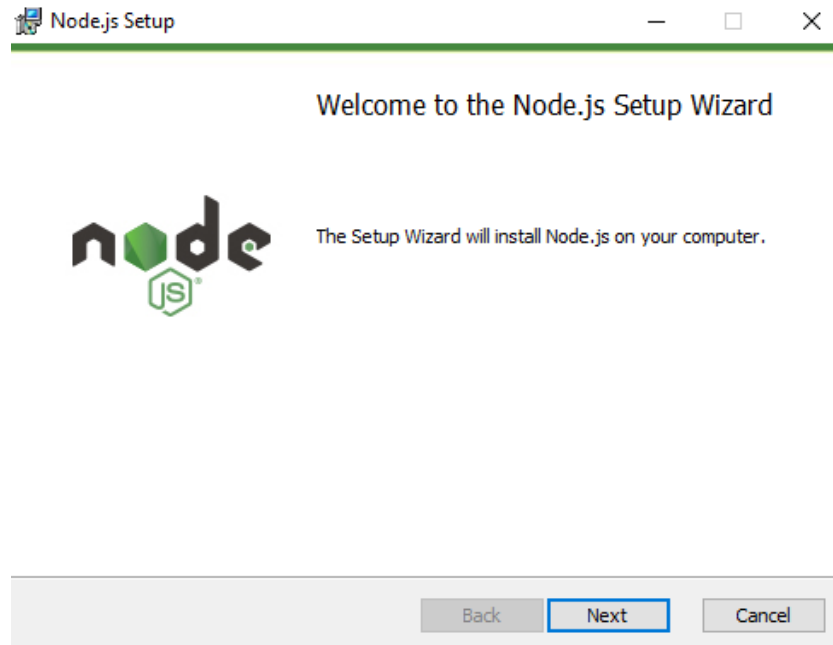
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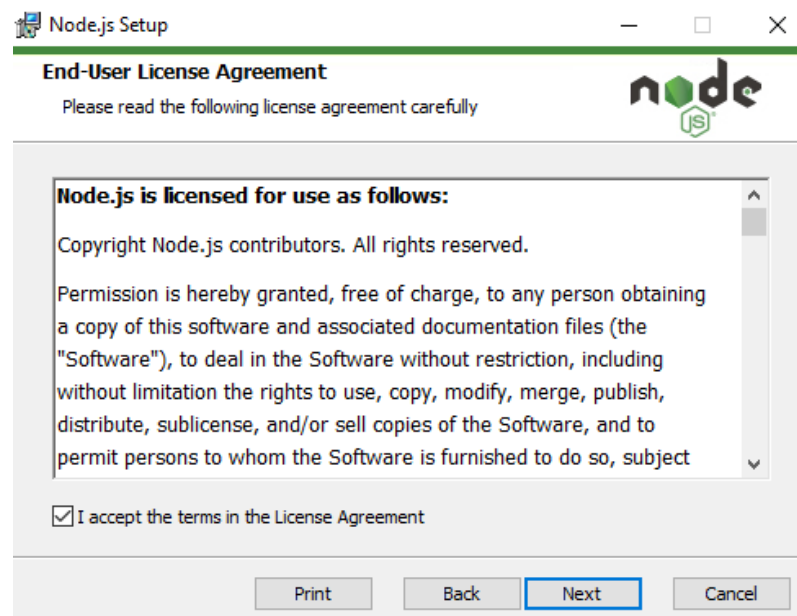
POLITEKNIK NEGERI MALANG

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a.   NodeJs Installation

1. Download NodeJs
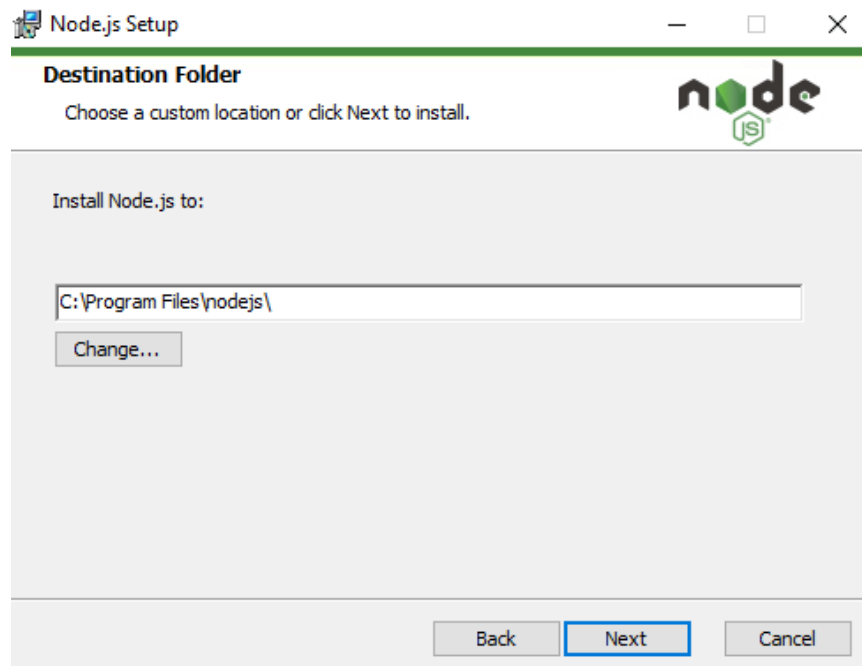2. Node.Js and NPM Installation

After finished downloading. Double click on the downloaded file to start the installation. The system will ask if you want to run the software – click Run. The Node.js Setup Wizard will appear on the screen – click Next.
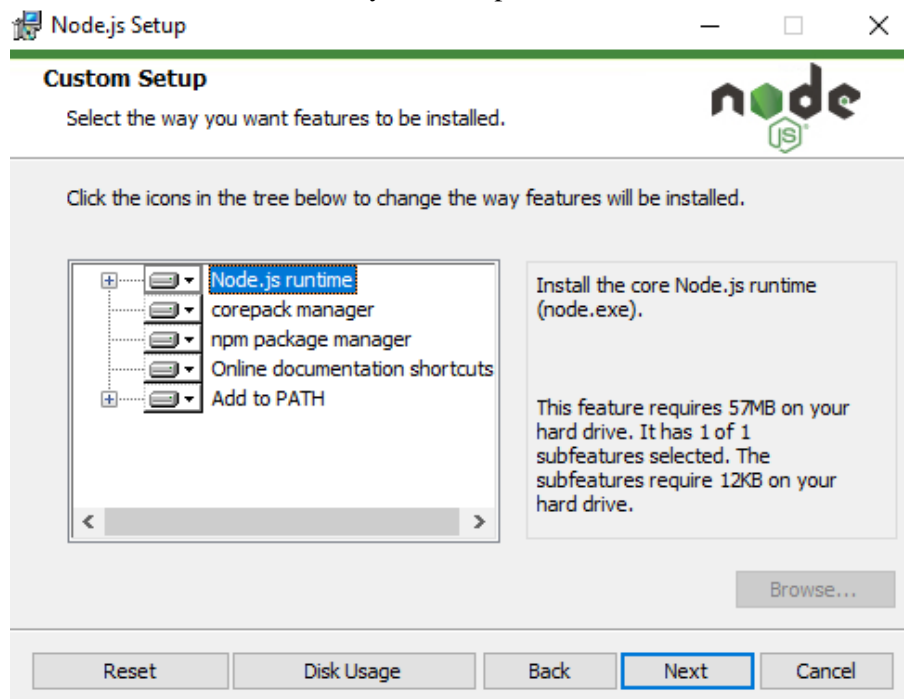
Welcome to the Node.js Setup Wizard

The Setup Wizard will install Node.js on your computer.

On the next screen, review the license agreement. Click Next if you agree to the terms and install the software.

End-User License Agreement
Please read the following license agreement carefully

Node.js is licensed for use as follows:

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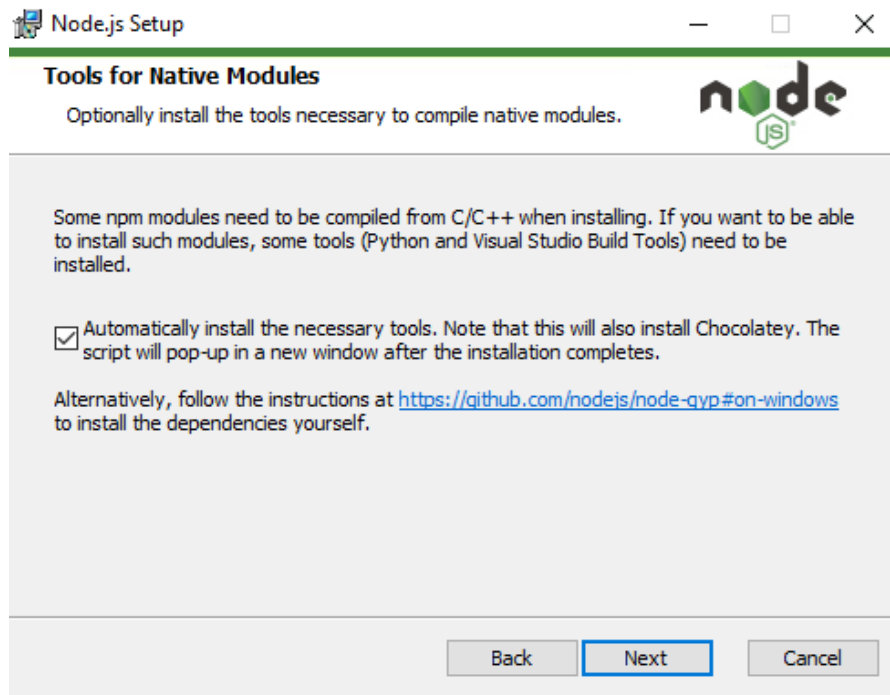
☑ I accept the terms in the License Agreement

The installer will ask you for the installation location. Choose the default location, unless you have a specific need to install it elsewhere. Then, click Next.
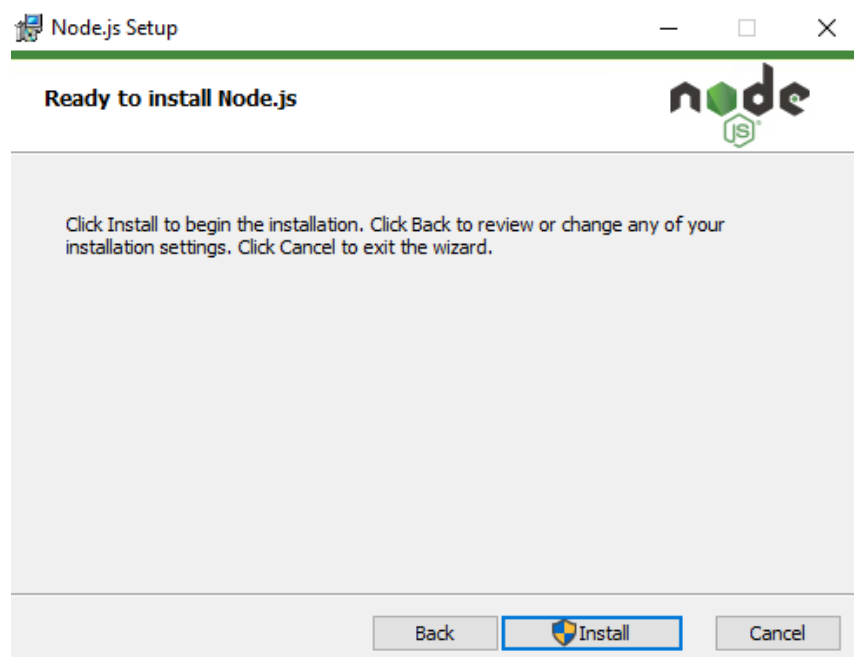

The wizard will let you choose which components to include or remove from the installation. Choose the default, unless you have special needs. Click Next.

In node, most modules are written in Javascript. Some modules are written in C/C++, as you can't edit files from plain Javascript. These modules are called 'native' because the code for these modules is slightly different depending on the OS node runs on. All native modules in node.js are addons. Addons provide an interface between JavaScript and C/C++ libraries. Therefore, put a check mark to install the tools needed in the compilation of native modules, then click Next.

Finally, click the Install button to run the installer. When the installation is complete, click Finish.

3. 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:\Users\HP>node -v
v16.14.0

C:\Users\HP>npm -v
8.3.1
```

b. Adding React to the website

1. Make a folder learn-react/week-2/web-react
2. Create index.html file

```html
1   <!DOCTYPE html>
2   <html lang="en">
3       <head>
4           <meta charset="utf-8">
5           <meta name="viewport" content="width=device-width, initial-scale=1.0">
6           <!--other HTML-->
7           <title>Learning ReactJS</title>
8       </head>
9       <body>
10          <p>Hello World</p>
11          <div id="like_button_container"></div>
12
13          <!-- Load React -->
14          <!-- Note: When deploying, replace "development.js" with "production.min.js"-->
15          <srcript src="https://unpkg.com/react@16.14.0/umd/react.development.js" crossorigin></srcript>
16          <script src="https://unpkg.com/react-dom@16.14.0/umd/react-dom.development.js" crossorigin></script>
17
18          <!-- Load our React component -->
19          <script src="like_button.js"></script>
20      </body>
21  </html>
```
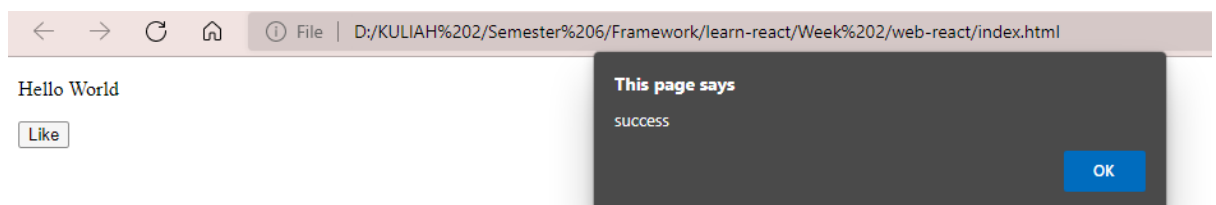
3. After that, create a js file with the name like_button.js

```javascript
1   const e = React.createElement;
2
3   function LikeButton(){
4       //Display a "Like" <button>
5       return e(
6           'button',
7           {
8               onClick: () => alert('success')
9           },
10          'Like'
11      );
12  }
13
14  //const button=()=>{
15  //return <button>Like</button>
16  //}
17
18  const domContainer = document.querySelector('#like_button_container');
19  ReactDOM.render(e(LikeButton), domContainer);
```

4. Open the index.html file in your browser

c. ReactApp-Installation