React-js

Ser517 Project Technique Study

The reason I learn React.js is that sometimes we don't actually wanna access the Back-end when we need to check the data. It can be very slow right? Also, I need to learn Front-end techniques to help implement our project.

It can be useful. For example, there is a upload button on the page to give user a way uploading PDF files. However when the user uploads the wrong type of file or even doesn't upload anything, what is gonna happen? From my point of view, I will parse whatever the user gives me to Back-End and match this data to something in DB. Then I return a result to Front-End.

But this is too slow and not straight-forward. What if I directly raise a notification on the page? React.js does help us to do that. I really wanna learn something. Let's start!

First we need to install the Node.js:

We create a js file named example.js on the desktop

```
const http = require('http');

const hostname = '127.0.0.1';
const port = 3000;

const server = http.createServer((req, res) => {
  res.statusCode = 200;
  res.setHeader('Content-Type', 'text/plain');
  res.end('Hello World\n');
});

server.listen(port, hostname, () => {
  console.log(`Server running at http://${hostname}:${port}/`);
});
```

Write those code in that js file and open the CMD terminal:

```
C:\Users\hasee\Desktop>node example.js
Server running at http://127.0.0.1:3000/
```

Then, we wanna install React.js:

```
C:\Users\hasee\Desktop>npm install -g create-react-app

C:\Users\hasee\AppData\Roaming\npm\create-react-app ->
 C:\Users\hasee\AppData\Roaming\npm\node_modules\creat
e-react-app\index.js
+ create-react-app@1.4.3
added 106 packages in 11.561s
```

Then, try to create an app:

```
C:\Users\hasee\Desktop>create-react-app my-app

Creating a new React app in C:\Users\hasee\Desktop\my-app.


Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts...


> uglifyjs-webpack-plugin@0.4.6 postinstall C:\Users\hasee
\Desktop\my-app\node_modules\uglifyjs-webpack-plugin
> node lib/post_install.js

+ react-dom@16.1.1
+ react-scripts@1.0.17
+ react@16.1.1
added 1266 packages in 140.925s

Success! Created my-app at C:\Users\hasee\Desktop\my-app
Inside that directory, you can run several commands:

  npm start
    Starts the development server.

  npm run build
    Bundles the app into static files for production.

  npm test
    Starts the test runner.

  npm run eject
    Removes this tool and copies build dependencies, confi
guration files
    and scripts into the app directory. If you do this, yo
u can't go back!

We suggest that you begin by typing:

  cd my-app
  npm start

Happy hacking!
```

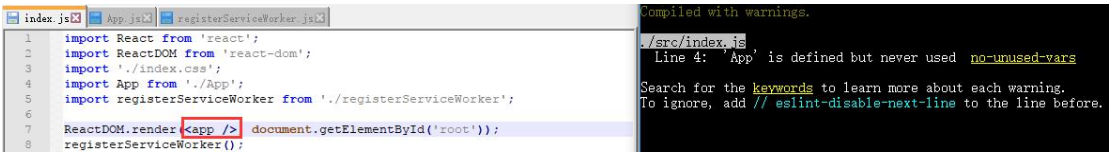
Now we get to that directory and try to run the code:

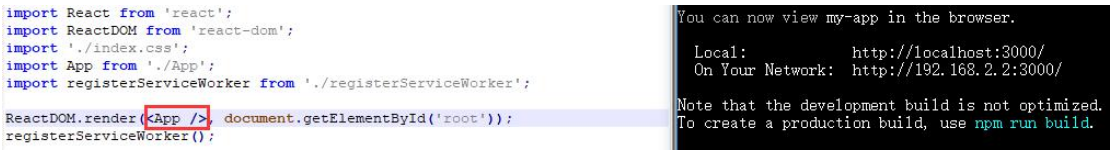
```
C:\Users\hasee>cd C:\Users\hasee\Desktop\my-app

C:\Users\hasee\Desktop\my-app>npm start_
```

To get started, edit src/App.js and save to reload.

Let’s look into the js file, the code!





So this code is capital-sensitive!

Challenges:

Now we know how to create a simple React.js App but it is far away from implementation of our Profile Dashboard Module. We may spend

more time learning it during the Winter-Break.