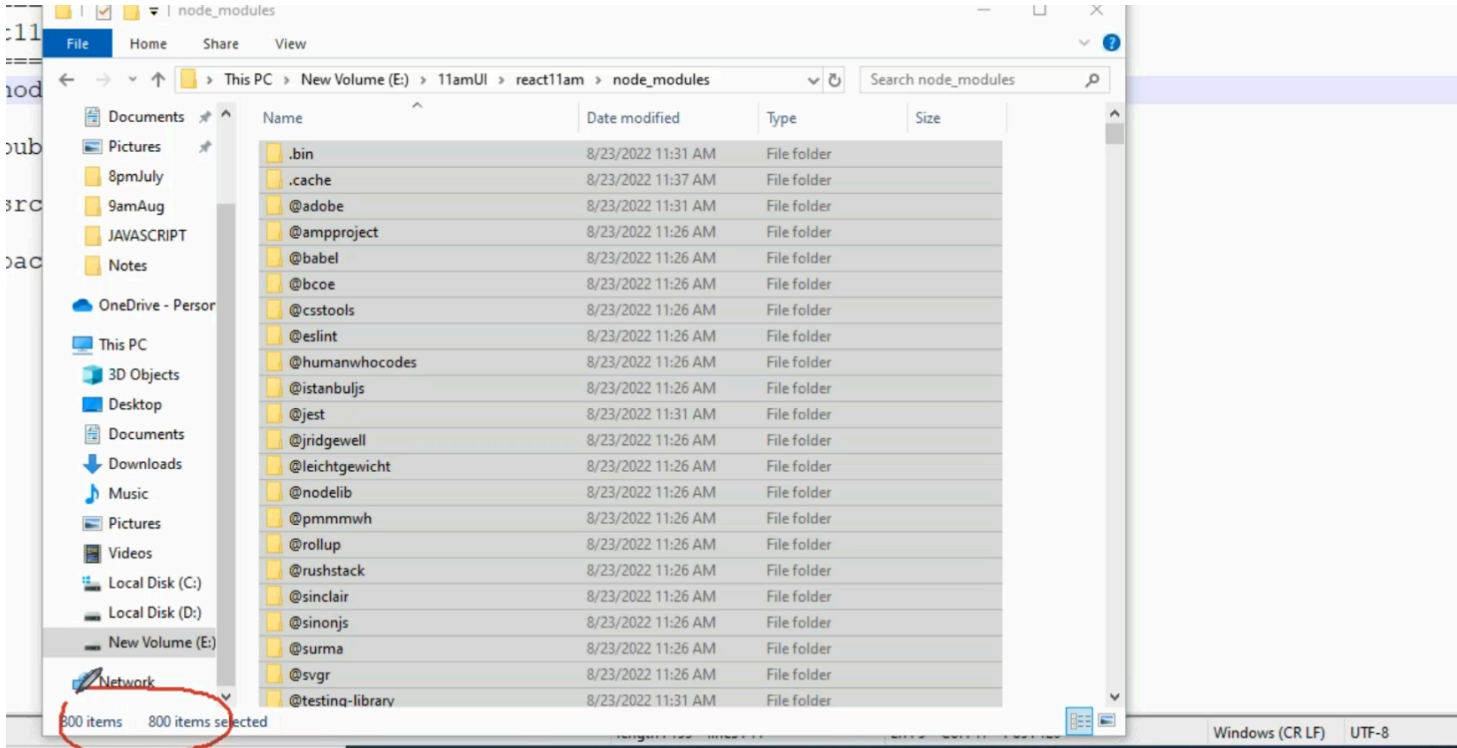


```
1 Folder Structure of React Project
2 =====
3 React11am
4 =====
5 node_modules I
6
7 public
8
9 src
10
11 package.json
```



## Folder Structure of React Project

### React11lam

#### node\_modules

this folder contains all the core modules of node and react  
when we are installing the 3rd party modules, they are saved in node\_modules folder only

#### public

root of our project  
when we are sending a request to our project, first request received by public/index.html

#### src

this is our project root, that means all the project files which are creating should be saved in src folder only  
each and every file should be saved in SRC folder only

#### package.json

this file maintains the dependencies of the project  
all installed modules information will saved in this file

## How to run the react project

open your project in CMD, run the command: npm start

After project runs successfully, In browser

<http://localhost:3000>

the default port number of node is 3000

```
import logo from './logo.svg';
```

```
import './App.css';
```

```
function App() {
```

```
  return (
```

```
    <div className="App">
```

```
      <header className="App-header">
```

```
        <img src={logo} className="App-logo" alt="logo" />
```

```
        <p>
```

```
          Edit <code>src/App.js</code> and save to reload
```

```
        </p>
```

```
        <a
```

```
          className="App-link"
```

```
          href="https://reactjs.org"
```

```
          target="_blank"
```

```
          rel="noopener noreferrer"
```

```
        >
```

```
          Learn React
```

```
        </a>
```

```
      </header>
```

```
    </div>
```

```
  );
```

```
}
```

```
export default App;
```

```
import logo from './logo.svg',  
import './App.css';
```

```
function App() {  
  return (  
    <div className="App">  
  
    </div>  
  );  
}
```

```
export default App;
```

How to run the react project

=====

open your project in CMD, run the command: npm start

After project runs successfully, In browser

=====

<http://localhost:3000>

the default port number of node is 3000

In src folder, we can find a js file called App.js

After project runs successfully, In browser  
=====

<http://localhost:3000>

the default port number of node is 3000

In src folder, we can find a js file called App.js

App.js called as a Component

What is a Component  
=====

A component is a reusable peice of code

In react, we will create many js files, here each js file is called as component

A component is nothing but a work/function/activity/task

EditEmployee.js  
DeleteEmployee.js  
updateEmployee.js

A component is JS file

```
JS App.js > App
import './App.css';

function App() {
  return (
    <div className="App">
      <h1 Welcome to React</h1>
    </div>
  );
}

export default App;
```

```

✓ import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';
import App from './App';
import reportWebVitals from './reportWebVitals';

const root = ReactDOM.createRoot(document.getElementById('root'));
✓ root.render(
  <React.StrictMode>
    <App />
  </React.StrictMode>
);

✓ // If you want to start measuring performance in your app, pass a function
// to log results (for example: reportWebVitals(console.log))
// or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
reportWebVitals();

```

```

src > JS index.js > ...
1  import React from 'react';
2  import ReactDOM from 'react-dom/client';
3  import './index.css';
4  import App from './App';
5  import reportWebVitals from './reportWebVitals';
6
7  const root = ReactDOM.createRoot(document.getElementById('root'));
8  root.render(
9    <React.StrictMode>
10     <App />
11   </React.StrictMode>
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();
18

```

- In the src we have index.html and in the project we have index.html
- App.js is first rendered into index.html
- These is connection between two index.html

A component is nothing but a work/function/activity/task

Employee

```
EditEmployee.js
DeleteEmployee.js
updateEmployee.js
```

A component is JS file

```
function App()
{
  return(
    <div className="App">
      <h1>Welcome to React</h1>
    </div>
  )
}
```

export default App

By default, App.js is called as root component

By default, App.js is called as root component

Creating a Component

=====

- each and every component should be saved in SRC folder
- every component name should start with Capital Letter
- every component extension is .js like: Welcome.js
- every component should be exported to reuse, generally export statement we can write at the bottom of the component

There are two types of components

1. Functional Component
2. Class component

1. Functional Component

2. Class component

1. Functional Component

=====

Functional components are created by using function keyword

\*\*\*\*\* Every functional component should have return statement to return the JSX

\*\*\*\*\* Name of the file and Component Name(function name) should be matched

src/Welcome.js

=====

```
function Welcome()
{
  return(
    <h1>Welcome to ReactJS</h1>
  )
}
```

export default Welcome;



Functional components are created by using function keyword

\*\*\*\*\* Every functional component should have return statement to return the JSX

\*\*\*\*\* Name of the file and Component Name(function name) should be matched

src/Welcome.js

```
function Welcome()
{
  return(
    <h1>Welcome to ReactJS</h1>
  )
}

export default Welcome;
```

After creating the component, we have to load it into the root component (App.js)

