React JS

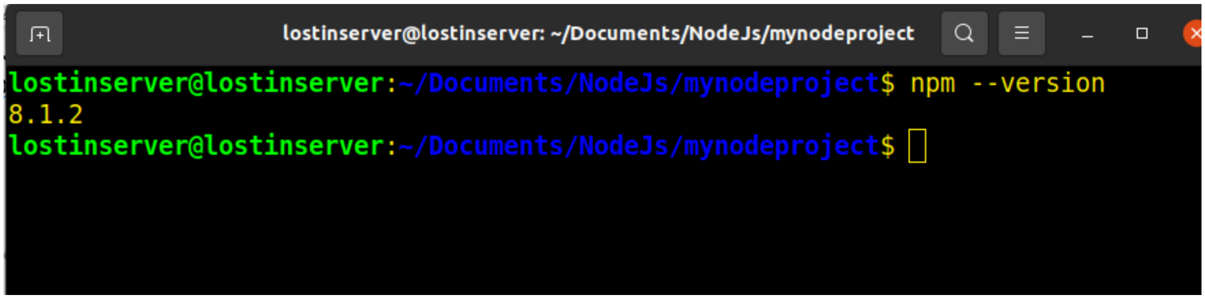
React JS is a free and open-source front-end JavaScript library for building user interfaces or UI components. It is developed by Facebook (Meta) in 2011.

Installing react js in our system

Firstly we need to install **npm** package manager in our system so that we can move ahead.

“ ***npm*** *is a package manager for the JavaScript programming language maintained by npm.*”

```
$ sudo apt install npm     // installing npm
$ npm --version              // checking npm version
```

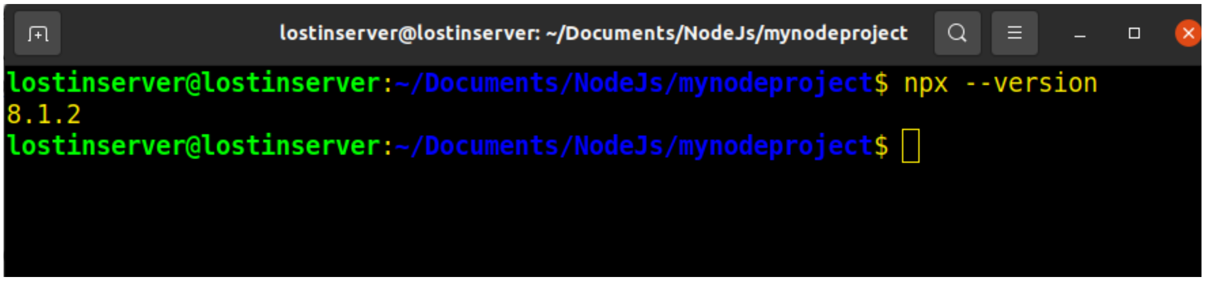


```
lostinserver@lostinserver:~/Documents/NodeJs/mynodeproject$ npm --version
8.1.2
lostinserver@lostinserver:~/Documents/NodeJs/mynodeproject$ 
```

npm has the **npx** package installed by default. If it is not install using,

```
$ npm install -g npx         // installing npx package

$ npx --version              // checking npx version
```

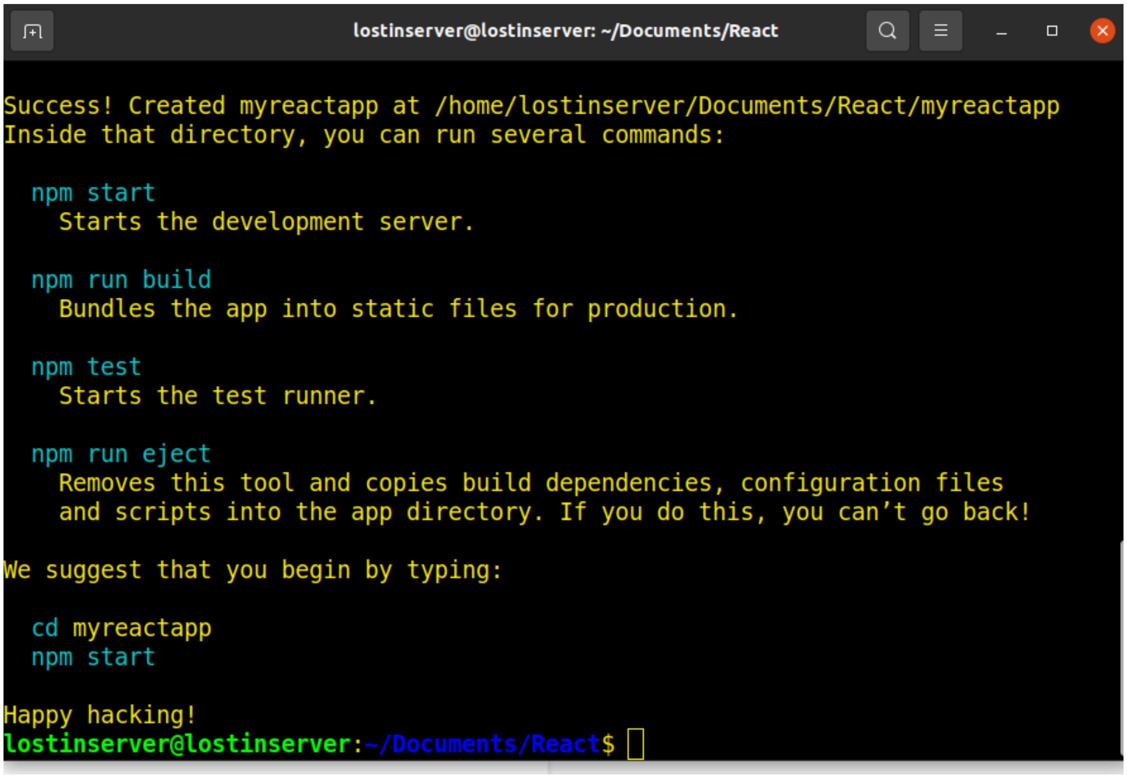
npx is a package runner tool that comes with npm 5.2+ and helps to create a react app. We use this as through this we always can create a react app with updated packages and also the npx package is a lot smaller than the **create-react-app** utility.



```
lostinserver@lostinserver:~/Documents/NodeJs/mynodeproject$ npx --version
8.1.2
lostinserver@lostinserver:~/Documents/NodeJs/mynodeproject$ 
```

Now, we can create a new react app using,

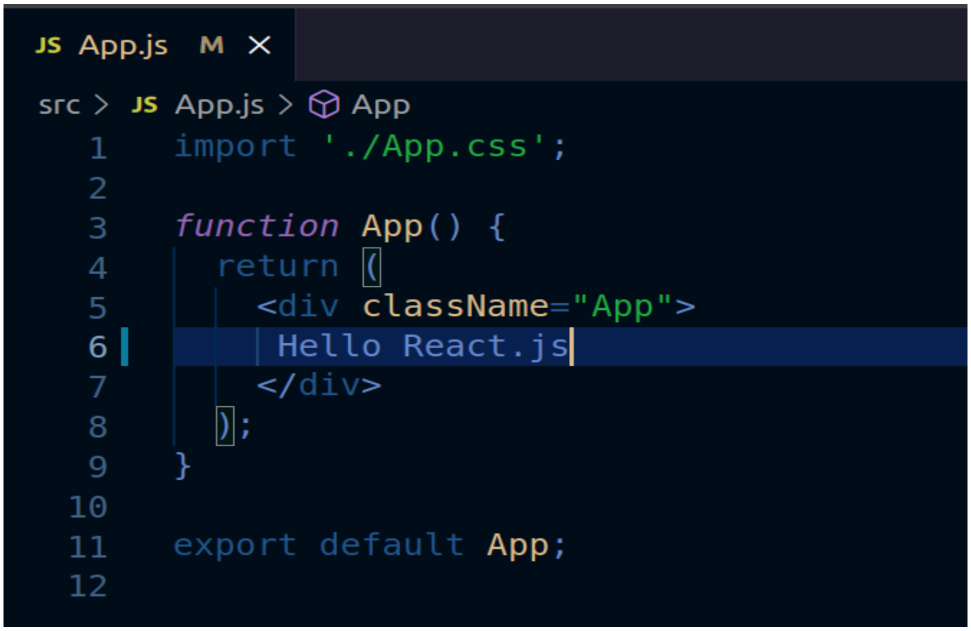
# npx create-react-app myreactapp



```

Success! Created myreactapp at /home/lostinserver/Documents/React/myreactapp
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, configuration files
    and scripts into the app directory. If you do this, you can’t go back!

We suggest that you begin by typing:

  cd myreactapp
  npm start

Happy hacking!
lostinserver@lostinserver:~/Documents/React$ 
```

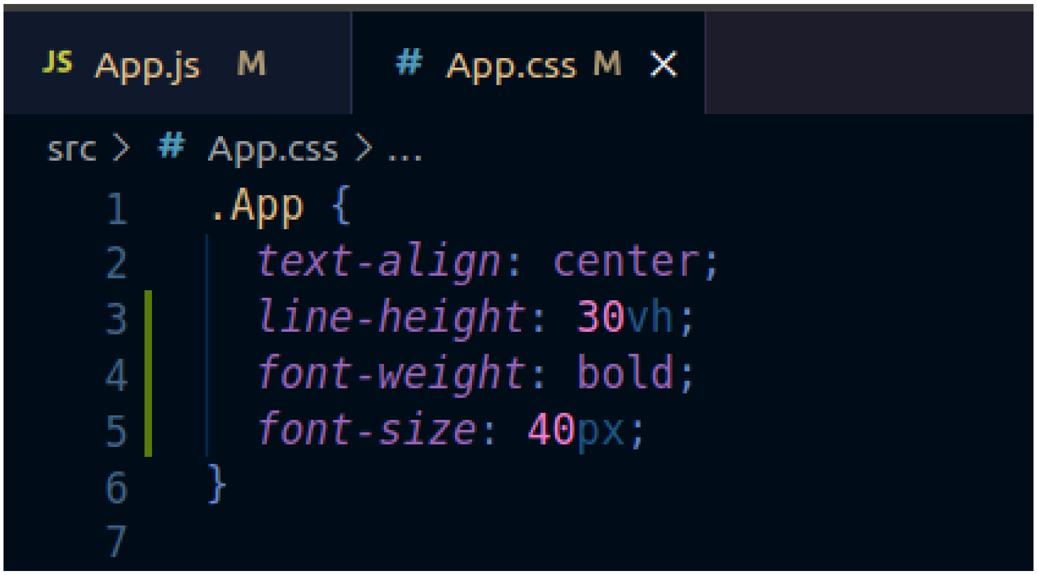
As we can see our react app has been successfully created.

Now, in order to print **“Hello React.js”** message we simply edit our **App.js** file located in our myreactapp/src as below,



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

function App() {
  return (
    <div className="App">
     Hello React.js
    </div>
  );
}

export default App;

```

(Optional) Let’s also modify some css to make it a bit visible. So, let us modify App.css as,



```
.App {
  text-align: center;
  line-height: 30vh;
  font-weight: bold;
  font-size: 40px;
}

```

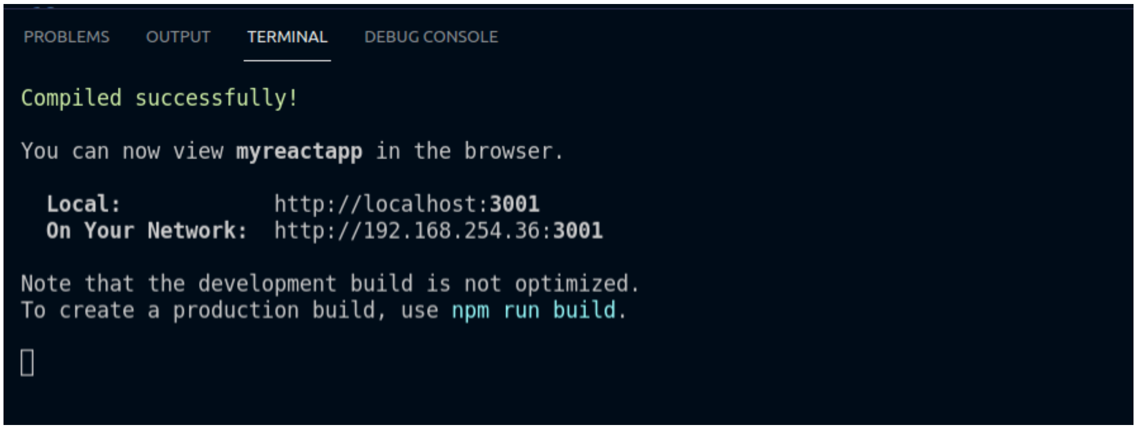
Default port for React is **3000**. We now change it to **3001** by simply using,

$ export PORT=3001

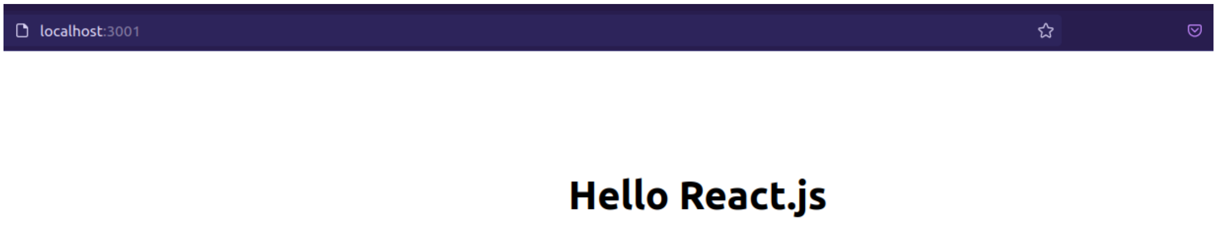
** This should be done inside the project's directory i.e. myreactapp (here)*

After this, we can run npm to view our site,

$ npm start



```
Compiled successfully!

You can now view myreactapp in the browser.

  Local:            http://localhost:3001
  On Your Network:  http://192.168.254.36:3001

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

▯
```



Hello React.js