React Environment Set Up

Install Node JS, IDE and Npm

- Recommended Node JS and npm for using ReactJS in your system/ PC.
- npm node package manager Open-source developers use npm to share software.
- npm is the world's largest Software Library with 8 Lakhs code packages.
- npm is installed with Node.js
- This means that you have to install Node.js to get npm installed on your computer.

How to Create React App

- You must have Nodejs 8.10 above version and npm 5.6 above version in your system.
- After install it for creating a react app you command the below line in your command prompt.
- npx create-react-app my-app
- cd my-app
- npm start
- Editing your react code in visual studio code command the below line in your command prompt.
- cd
- my-app code.

Why NPX?

Answer

Introducing npx: an npm package runner

NPM - Manages packages but doesn't make life easy executing any.

NPX - A tool for executing Node packages.

NPX comes bundled with NPM version 5.2+

NPM by itself does not simply run any package. it doesn't run any package in a matter of fact. If you want to run a package using NPM, you must specify that package in your package.json file.

When executables are installed via NPM packages, NPM links to them:

local installs have "links" created at ./node_modules/.bin/ directory.

global installs have "links" created from the global bin/ directory (e.g. /usr/local/bin) on Linux or at %AppData%/npm on Windows.

NPM:

One might install a package locally on a certain project:

npm install some-package

Now let's say you want NodeJS to execute that package from the command line:

\$ some-package

The above will fail. Only globally installed packages can be executed by typing their name only.

To fix this, and have it run, you must type the local path:

\$./node_modules/.bin/some-package

You can technically run a locally installed package by editing your packages.json file and adding that package in the scripts section:

```
{
  "name": "whatever",
  "version": "1.0.0",
  "scripts": {
     "some-package": "some-package"
  }
}
```

Then run the script using npm run-script (or npm run):

npm run some-package

NPX:

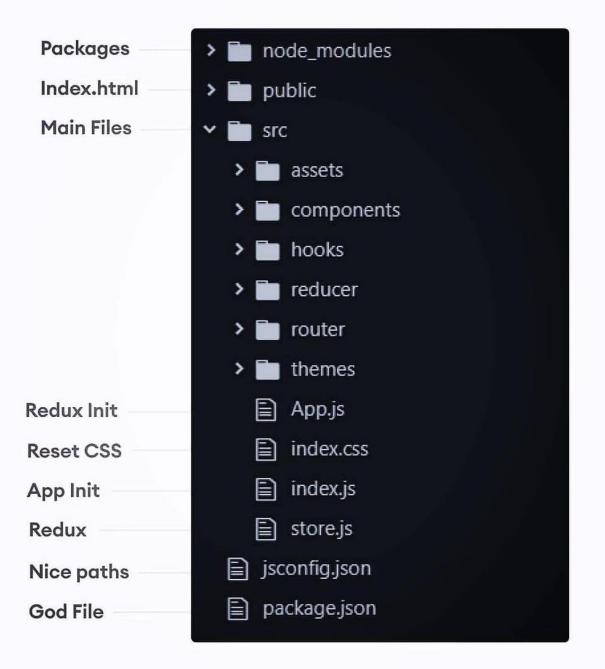
npx will check whether <command> exists in \$PATH, or in the local project binaries, and execute it. So, for the above example, if you wish to execute the locally-installed package some-package all you need to do is type:

npx some-package

Another major advantage of npx is the ability to execute a package which wasn't previously installed:

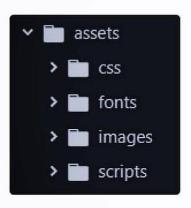
\$ npx create-react-app my-app

The above example will generate a react app boilerplate within the path the command had run in, and ensures that you always use the latest version of a generator or build tool without having to upgrade each time you're about to use it.



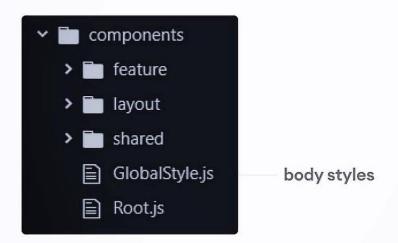
Assets

This is where we store extra bits like JS scripts and CSS. Note, I try to use this folder sparingly and instead prefer to CDN images and fonts



Components

This is where the majority of work happens. At the bottom we have our main Root component that will hold our application together



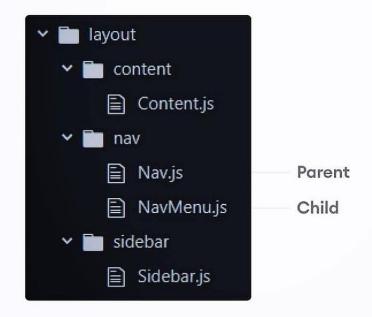
Shared Components

These folders include our essentially "dumb" components. Their composition relies on props being passed in but they can access the theme



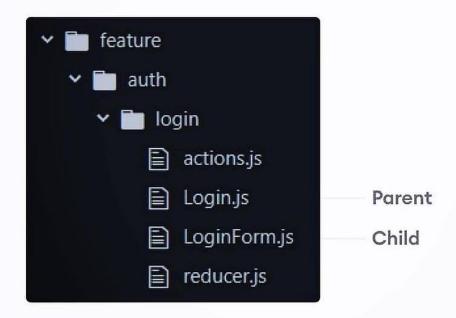
Layout Components

These folders include all of the components that make up the master layout of your app. Note, a loyout component can include a feature



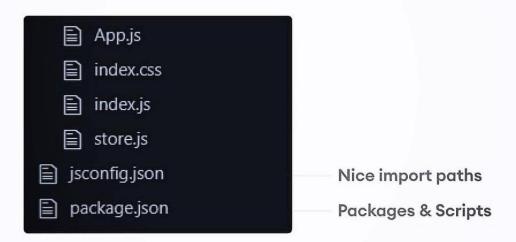
Feature Components

These folders include everything you need to make a page in your app. If I'm using redux, I like them to have their own actions and reducer



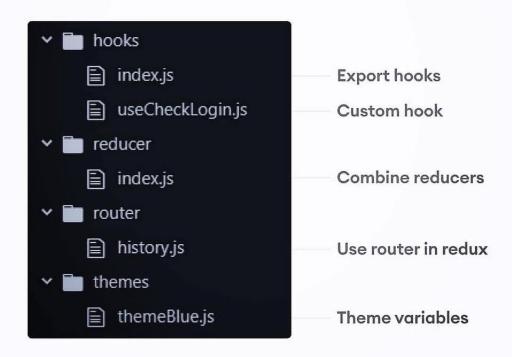
Royalty 👑

All essential files for our app that we will hardly ever need to touch. Package.json will can change though as we add packages, settings and scripts



VIP's

Hooks are a great way to keep code clean, and the themes folder is our CSS in JS variables. The others are involved in reducer and router setup





- Environment set up
- Npm
- Npx
- Npx Advantage
- Folder structure
- First React Application

