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React File Structure



NEXT →

Hey Everyone 🙌

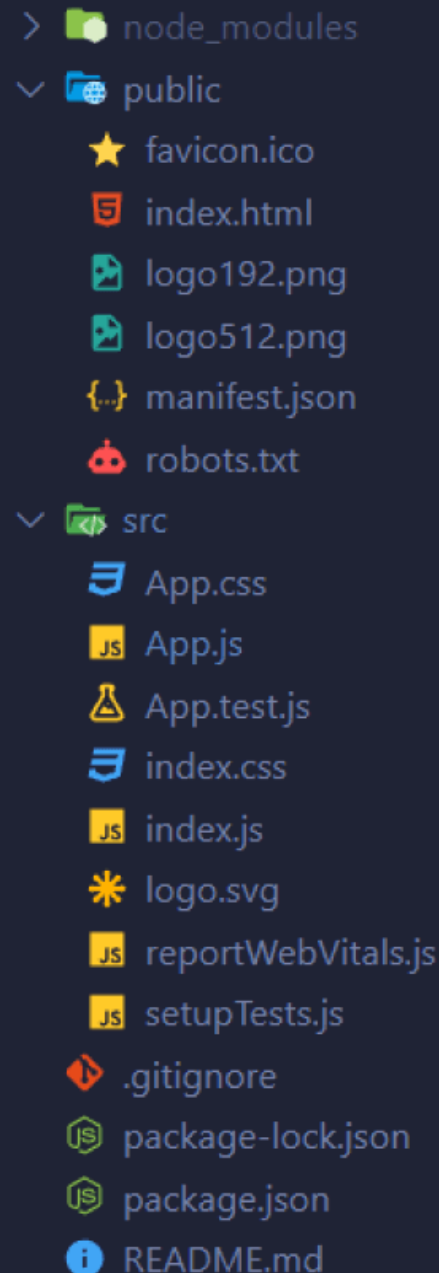
When we use create-react-app tool it creates a hierarchy of files and folder.

In this Post we are going to have a look and explain this structure in as minimalistic way as possible.

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React File-Structure

- When we create a React project, our application's structure looks like this :
- I am going to explain what these files and folders are.



```
> node_modules
✓ public
  ★ favicon.ico
  📄 index.html
  🖼️ logo192.png
  🖼️ logo512.png
  📄 manifest.json
  📄 robots.txt
  ✓ src
    📄 App.css
    📄 App.js
    📄 App.test.js
    📄 index.css
    📄 index.js
    🖼️ logo.svg
    📄 reportWebVitals.js
    📄 setupTests.js
    📄 .gitignore
    📄 package-lock.json
    📄 package.json
    📄 README.md
```

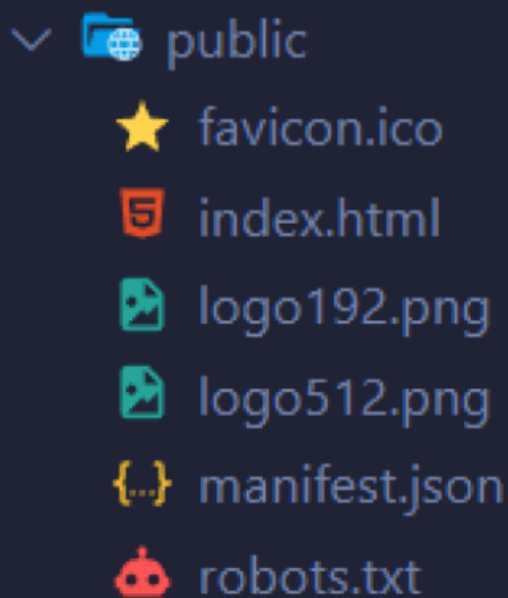
Root folder files

- **node_modules(Folder)** : Contains all the dependencies that are needed for an initial working react app.
- **.gitignore(file)** : This file specifies intentionally untracked files that Git should ignore.
- **package.json(file)** : This file contains various metadata that is relevant to our project.
- **README.md(file)** : This file can be used to define usage, build instructions, summary of project, etc.

Public folder

- **public(folder)** : Root folder that gets served up as our react app.
- **favicon.ico(file)** : It's an icon file that is used in index.html as favicon.
- **index.html(file)** : It is the template file which is served up when we run start script to launch our app.
It is considered best practice **not to create** multiple html file in public folder.
- **robots.txt(file)** : Defines rules for spiders, crawlers and scrapers for accessing your app.

- **logo192.png & logo512.png(files)** : These are react logo which is of dimension 192*192 px and 512*512 px and is used in the template file (index.html) by default.
- **manifest.json(file)** : It's used to define our app, mostly contains metadata. Used by mobile phones to add web app to the home-screen of a device.



```
✓ public
  ★ favicon.ico
  📄 index.html
  🖼️ logo192.png
  🖼️ logo512.png
  {...} manifest.json
  🤖 robots.txt
```

Src folder and its files

- **src(folder)** : In simplest form it's our react app folder i.e. containing components, tests, css files etc. It's the mind of our app.
- **App.css(file)** : Contains styles of our react component (App.js).
- **App.js(file)** : This file has very basic react component defined which can be replaced by our own root component.
- **index.css(file)** : Contains styles for general setup of our app.

- **App.test.js(file)** : A very basic test(for the default app) is defined in this file which can be replace by our own tests.
- **index.js(file)** : This files renders our component and registers service workers.
- **logo.svg(file)** : Svg file of react logo, being used in component(App.js) by default.
- **setupTests.js(file)** : As the name suggest this files setups tests and runs them. This file in directly invoked when we run tests from cli(npm run test).

- I might have missed a few files/folder, as the structure greatly varies depending upon the scripts version we are using with create-react-app.
- In **Next Post** we will see how to structure a complex React project should be structured.

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THANKS FOR YOUR ATTENTION



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