

1711

- createRoot assigns the root to HTML element.

- root.render

↳ will replace root from createRoot whenever we are passing in ().

Important

• npm: It is the package manager for the node js platform. It puts modules in place so that node can find them, and manages dependency conflicts. It is used to publish, discover, install and

FEBRUARY 2022						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

Tuesday - 2022

JANUARY

04

02nd Wk / 004-361

• ~~Just~~ says develop node programs. npm install downloads a package and its dependency.

• npm i: react react-dom → added package-lock.json & node modules
↓
Added [React & react dom package].

* Refer parceljs.org.

1. Dependency — [Normal Dependency] It is the package required by our application in production. It is a library that a project needs to function effectively.

2. Dev-Dependency — It is only needed for local development and testing.

→ What is npx?

→ The npx stands for Node Package Execute.
• npx is sibling of npm. It executes whatever you write.

→ What is parcel-cache?

→ It stores info about our project when parcel builds it, so that when it rebuilds, it doesn't have to reparse and reanalyse from scratch.

Important • HMR (Hot Module Reload) is fast refresh.

• File watcher algo is written in C++.

05

2022 - Wednesday

JANUARY

02nd Wk / 005-360

2022							JANUARY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
30	31					1							
2	3	4	5	6	7	8							
9	10	11	12	13	14	15							
16	17	18	19	20	21	22							
23	24	25	26	27	28	29							

- package.json & package-lock.json will regenerate all node modules.
- We don't push node modules.
- dist folder - This ~~is~~ contains actual build deployed for production.
- Never edit package-lock.json because its purpose is to track entire tree of dependencies.
- App.js is browser script.
- Why do we have <script> tag in index.html in public?
→ Ans in next page.
- npm init -y → It will default package.json
- We do need alot of libraries to build our app.
- ~~npm init -y~~
- Webpack is one kind of bundler. Parcel is also a bundler.
- parcel src/index.html: We give parcel, root of our app.
- package-lock.json will tell exactly what version you are on.
- .vscode are settings for vscode.

Important

- .gitignore → don't push into github.
 - ↳ node-modules
 - ↳ parcel-cache
 - ↳ dist
 - ↳ .vscode
- .env
- npm-debug.log*

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

• What is parcel/webpack? why do we need it?

→ Parcel is a web app bundler. It offers blazing fast performance utilizing multicore processing and requires zero config. It handles file types like image & fonts. Webpack is a module bundler. It can take care of bundling alongside a separate task runner. It helps to use different js files without having tension that will load first. It makes code shorter.

• What is tree-shaking?

→ It is a concept of ~~dev~~ development of eliminating dead code or unused code. It relies on import and export statements to detect if code modules are exported and imported for use in js files.

• What is HMR?

→ HMR (Hot Module Replacement) exchanges, add or removes modules while an app is running without a full reload.

• 5 Superpowers of Parcel:

→ Image optimization: It supports resizing, converting and optimizing images. We can request multiple sizes/formats from same source of image, which helps support different types of devices or browsers efficiently.

Important • Tree shaking: When parcel can determine which exports of a dynamically imported module we use, it will tree shake the unused exports from the module.

07

2022 - Friday

JANUARY

02nd Wk / 007-358

2022

JANUARY

S	M	T	W	T	F	S
30	31					1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

- Dev: It includes dev servers with it and features like HMR (Hot Module Replacement), HTTPS and API proxy.
 - Bundle Handling
 - Targets
- Difference b/w package.json and package-lock.json**
- | package.json | package-lock.json |
|---|--|
| i) It records important metadata about project | i) It allows future devs to install same dependencies in the project |
| ii) It contains name, description, author, script and dependencies. | ii) It contains name, dependency and locked version of the project. |
| iii) It contains basic information for every project and it is mandatory for every project. | iii) It describes exact tree that was generated to allow subsequent installs to have identical tree. |

2. What is node-modules? Is it a good idea to push that on git?

→ This node-modules are like frontend engineer of our app. It sets up webpack and Babel and config it. No, we should not push it to git as it has large size.

• Browserslist: We can add and remove them in files to make our app support different old browsers.

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					



8 = what is `<noscript>` tag in index.html of create React App?

9 → The tag defines an alternate content for users that have disabled scripts in browser or have a browser that doesn't support script.

10 = what is role of manifest.json file in create react app?

11 → This ~~manifest~~ file provides info about an app (such as name, icon, author, description) in a JSON text file. The purpose of manifest is to install web app to homescreen of a device, providing users with quicker access and richer experience.