# **Supplementary notes REACT-APR24**

# Packages and web host used for listings-app:

1. Vite

https://www.npmjs.com/package/vite

2. React-dom

https://www.npmjs.com/package/react-dom

3. React-router-dom

https://www.npmjs.com/package/react-router-dom

4. Json-server

https://www.npmjs.com/package/json-server

5. Axios

https://www.npmjs.com/package/axios

6. Uuid

https://www.npmjs.com/package/uuid

7. Tailwind CSS

https://www.npmjs.com/package/tailwindcss

8. Netlify

https://www.netlify.com/

# Scaffold a React project with Vite:

npm i vite

npm create vite@latest

Follow the prompts to name app directory and choose variants.

We chose React and JavaScript.

cd my-project npm i npm run dev

### Install Tailwind as a dev dependency:

https://tailwindcss.com/docs/guides/vite

npm install -D tailwindcss postcss autoprefixer

npx tailwindcss init -p

add directives to top-level css file:

@tailwind base;

@tailwind components;

@tailwind utilities;

**VERY** important configure **tailwind.config.js** for vite structure.

This tells Tailwind which files to watch as entry points:

content: ["./\*\*/\*.{html,js}"],

```
Js tailwind.config.js ×
Js main.js
weather-app > JS tailwind.config.js > [∅] default
        /** @type {import('tailwindcss').Config} */
  1
        c.port default {
  2
        ..content: ["./**/*.{html,js}"],
  3
          theme: {
  4
            extend: {},
  5
  6
          plugins: [],
  7
  8
  9
```

#### npm run dev

#### **FIXES**

FIX FOR BUILD PATHS TO WORK CORRECTLY IN A VITE BUILD - ADD/AMEND THIS LINE IN YOUR PACKAGE. JSON:

"build": "vite build --base=./",

This is covered by section **Public Base Path** in docs:

https://vitejs.dev/guide/build

FIX FOR REACT-ROUTER TO WORK CORRECTLY ON NETLIFY - ADD THIS FILE TO YOUR UPLOAD:

In /dist/ create file:

**\_redirects** file (that's IT - NO extension!)

File contents:

/\* /index.html 200

Handy to have this file in a separate folder so you can just copy it in to **/dist/** if you want to publish.

This covered by section <u>History pushState and single-page apps</u> in docs: https://docs.netlify.com/routing/redirects/rewrites-proxies/

### npm run build

Examine newly created/recreated **/dist** dir and launch the new index.html from here to preview on live server

```
MISC NOTES
Thinking in React:
https://react.dev/learn/thinking-in-react
Dave Ceddia tutorial on useEffect:
https://daveceddia.com/useeffect-hook-examples/
create-react-app alternative build tool
https://create-react-app.dev/docs/getting-started/
npx create-react-app my-app
cd my-app
npm start
This WILL watch changes. So dev team probably still using CRA?
How to convert to and from JSON:
     const my_obj = { name: "Alan", age: 57 };
     const my_json = JSON.stringify(my_obj);
     console.log(my_json);
     const my_parsed_obj = JSON.parse(my_json);
```

#### **VIDEOS**

Jake Archibald talk on the event loop: https://youtu.be/cCOL7MC4PI0 02:58 - 12:50 (until requestAnimationFrame()) Jake on socials: @jaffathecake

console.log(my\_parsed\_obj);

/\*arrayMethodsSong.js is from @Una (Una Kravets, Chrome Browser, CSS Working Group) https://twitter.com/una/status/1092122139627536386?s=21

## **MODULE EXPORTS**

Jake Archibald on named vs default module imports and live bindings: <a href="https://jakearchibald.com/2021/export-default-thing-vs-thing-as-default/">https://jakearchibald.com/2021/export-default-thing-vs-thing-as-default/</a>

# HTML/CSS

Una Kravets 1-line layouts (modern intrinsic layout patterns in CSS Grid) https://www.youtube.com/watch?v=qm0lfG1GyZU

FRONTEND TOOLING LINKS http://dontpanic.website/tools/

Tailwind cheatsheet

https://tailwindcomponents.com/cheatsheet/

# 

#### **Further self-study**

All the resources below are, in my opinion, excellent:

React Docs \*Free https://react.dev/learn

MDN tutorials \*Free

https://developer.mozilla.org/en-US/docs/Learn

Dan Abramov Just JavaScript \*Paywall

https://justjavascript.com/

Kyle Simpson YDKJS book series \*Old editions free https://github.com/getify/You-Dont-Know-JS

Dave Ceddia Pure React \*Paywall https://www.purereact.com/

#### 

#### **VS Code shortcuts - JS environment**

CTRL + B	toggle explorer pane / full screen
CTRL + +/-	up/down font size
CTRL + /	toggle comment on/off
ALT/OPTION + CLICK	multi-cursor select
ALT + SHIFT + DOWN/UP	duplicate line down/up

find and kill running servers:

ON MAC OS:

sudo Isof -i :<PORT>

(Replace <PORT> with the port number you want, but keep the colon) // this will print out stuff including PID

kill -9 <PID> // without angle brackets

ON WINDOWS:

netstat -ano | findstr :<PORT>

(Replace <PORT> with the port number you want, but keep the colon)

netstat -ano | findstr :\*

(ALL ports)

taskkill /PID <PID> /F

(No colon this time)

find and remove node modules globally/for multiple directories:

# https://www.npmjs.com/package/npkill

you can do this with a rm -rf command on Linux/Mac terminal but i have used this utility and I like it because, crucially, it PAUSES and asks the user to confirm...
 There are <u>SYSTEM</u> node modules that the tool may find and you <u>WON'T</u> want to delete!