

33. React Build Tools, List Forms, Props & State

Agenda :

- Build tools
- Components & reuse
- Props
- State
- Event Handling in React

* BUILD TOOLS :

Transforming, bundling & optimizing source code to make it ready for deployment.

Myntsa.com

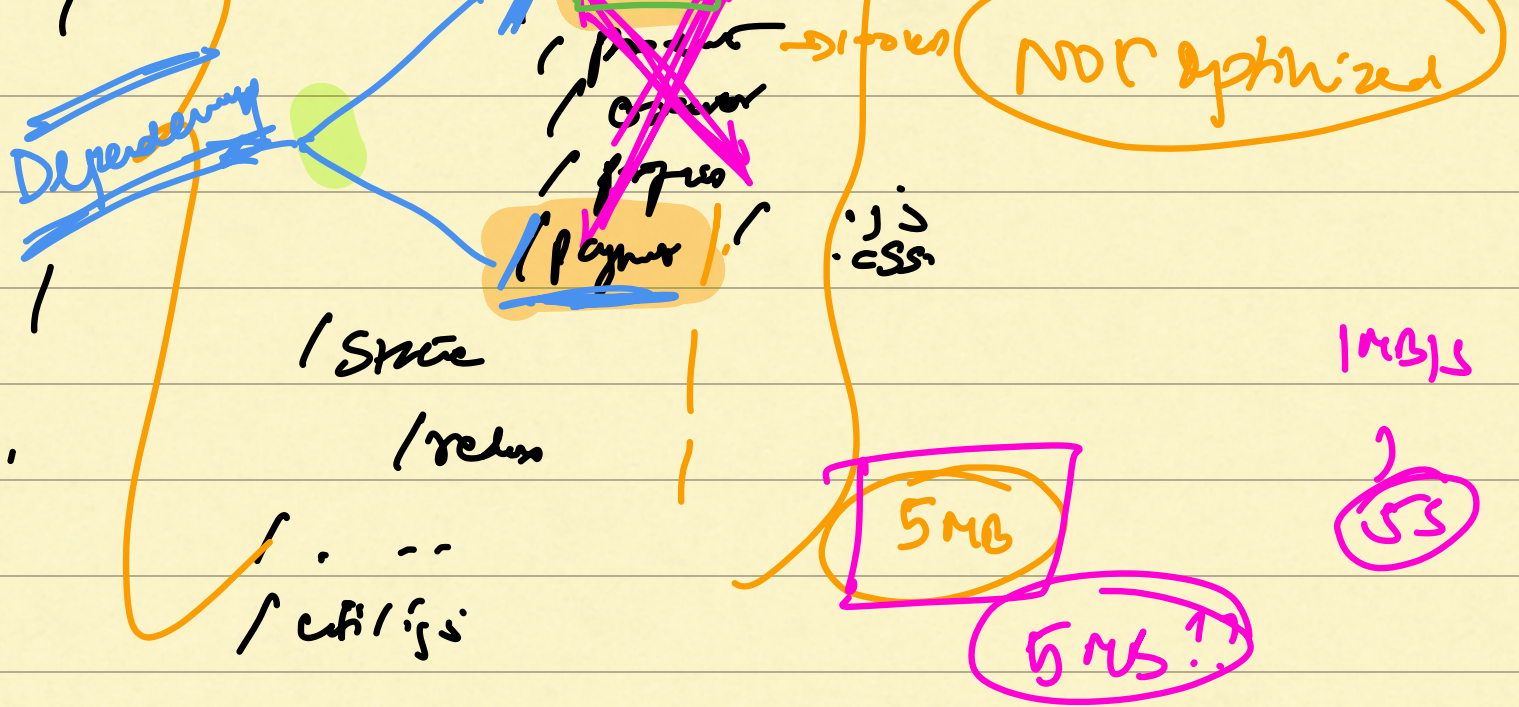
/src

/components

/home

~~/home~~ tools
Crt + 10046

HTML
CSS
JS



→ Use Cases of Build tools

- 1) Transpilation → Build tools like Babel transpile the code into backward compatible version that browsers support
- 2 Code Splitting → Different parts of application can load asynchronously.
 Automatically They analyse dependencies & split code accordingly
- 3 Module Bundling → Less → multiple modules.
 Build tools like webpack, rollup, parcel bundle these modules into a single or multiple files to improve load times.

Reduce HTTP req.

- 4) Optimization → Perf. & efficiency.
5) Deployment server → Tools have builtin server.
HMR → Hot Module Replacement

eg Webpack
Vite
Parcel
Rollup

Share notes on differences

Package .json

dependencies

:

{

react: 18.3.1,

react-dom: 18.3.1

}

lib A1
A2
→ A3

lib A
lib B
lib C

dev Dependencies : ↵

Project Structure

- ① package.json : Lists all dependencies, metadata to run code
- ② package-lock.json :
 - Automatically gets created.
 - Lists all dependencies of used packages
- ③ node_modules
 - Automatically created
 - Houses code of packages used.
 - All installed packages & their dependencies.
- ④ src
 - └ index.html
 - App.js
 - App.css

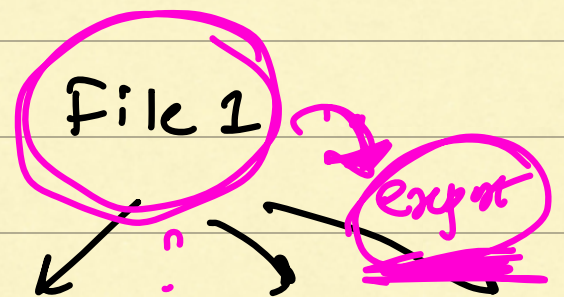
Package.json :

dependencies : { - } ,
devDependencies : { - } ,

scripts : {

}

export
↙



① default export

② named export

File 2

import

File 3

import

File 4

One file can have one default export

Named export can be many.

default

import myComp from './myComp'

import {a, b, c} from './myComp'

named

Why props?

- Extensibility
- Reuse the Component
- Separation of Concerns
- Efficiency

arr

['Apple', 'Banana', 'Mango']

↑

arr.map((item, index) => {

return (

{item}

,

)

