

2. Setup

Introduction to React



Project

github.com/AlvYuste/react-course-wishlist



Index



Dependencies



Bundling



Code style



Dev Tools



Index



Dependencies



Bundling



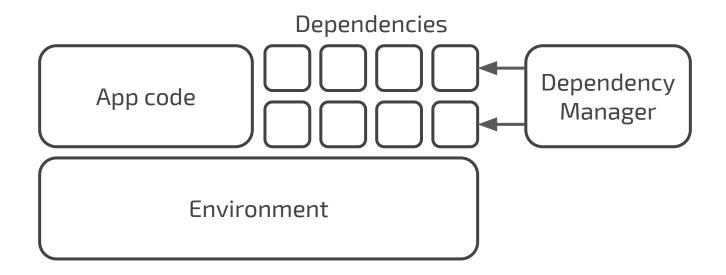
Code style



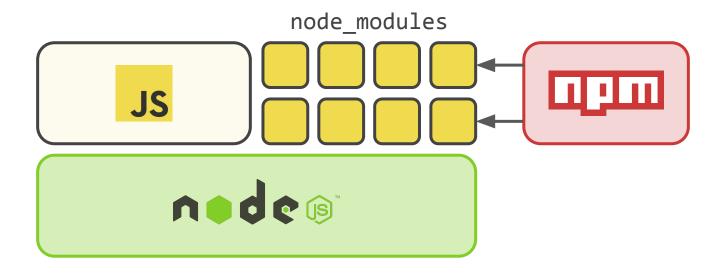
P Dev Tools



Dependencies



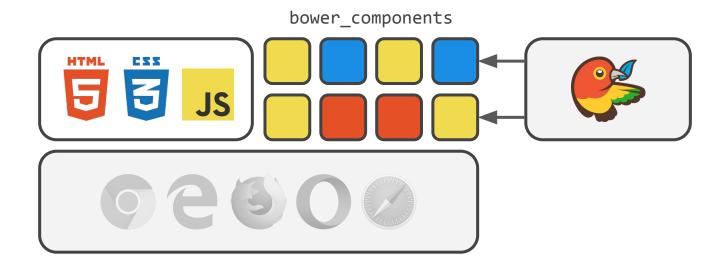








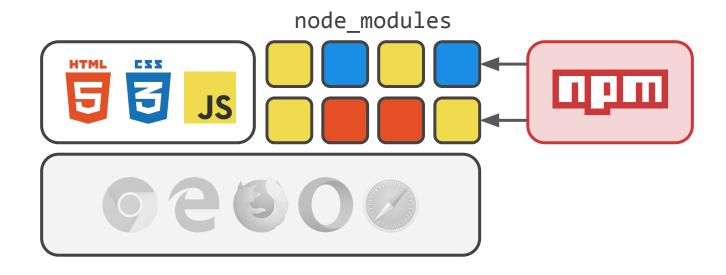
Dependencies – Browser classic approach







Dependencies - Browser unified approach







Dependencies - Create project

1. Install NodeJS

••• <> https://nodejs.org

2. Check NPM version

npm -v

3. Create and go to a new folder

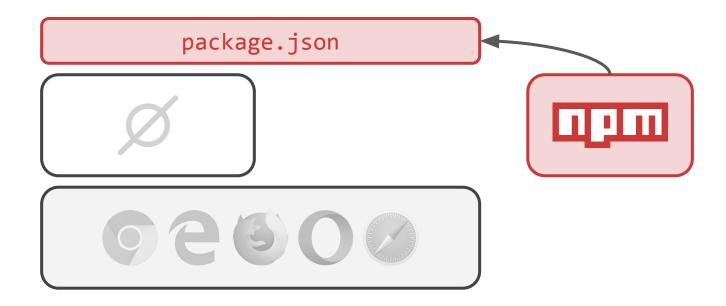
mkdir wishlist && cd wishlist

4. Start a project in the folder

npm init



Dependencies





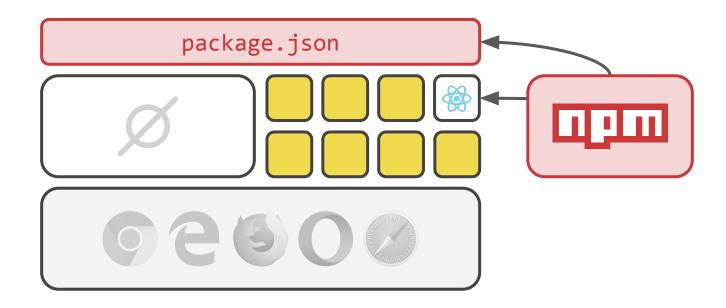


Install React in the project

npm install --save react

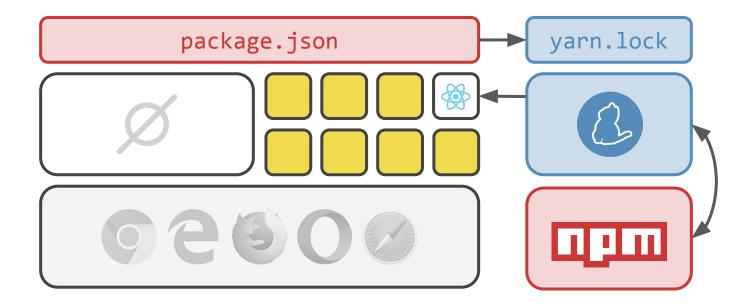


Dependencies





Dependencies - Yarn





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Dependencies



Bundling

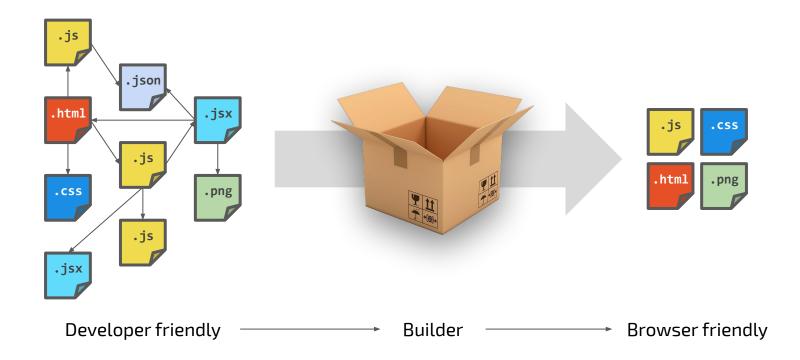


Code style



P Dev Tools





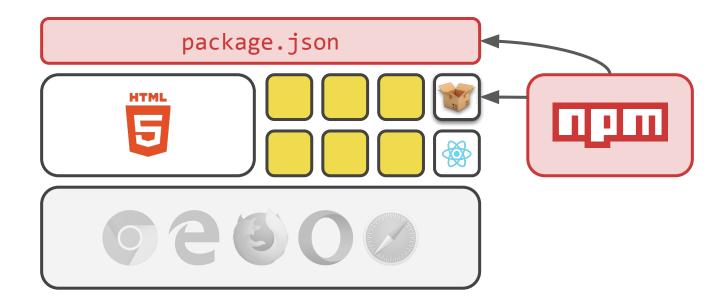


1. Install Parcel in the project

2. Create a simple index.html

npm install --save-dev parcel-bundler







1. Define a start script in package.json

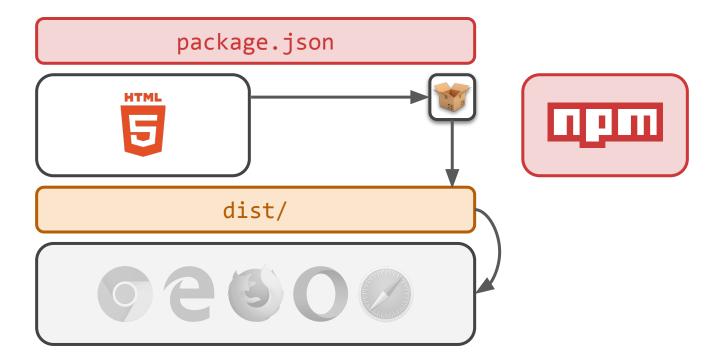
```
{ ...
   "scripts": {
        "start": "parcel index.html"
    },
},
```

2. Run the start script

3. Open browser

```
npm start
```

```
••• <> http://localhost:1234
```







Install React DOM and start trying React

index.html

npm install --save react-dom

index.jsx

```
import React from "react";
import ReactDOM from "react-dom";

ReactDOM.render(
    <div> Mi wishlist </div>,
    document.getElementById("root")
);
```



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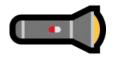














Folders Structure

Linting

Format











Linting



Format





```
project-folder/
 src/
 dist/
package.json
.all-config-files
```

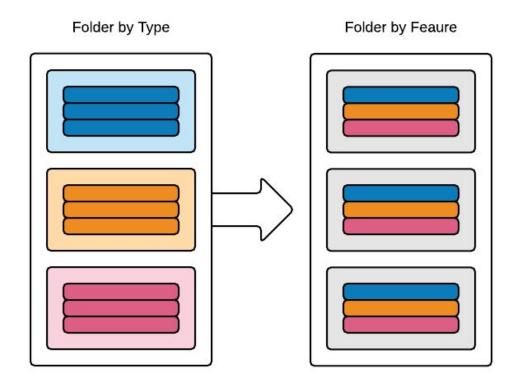




project-folder/ src/ dist/ package.json .all-config-files









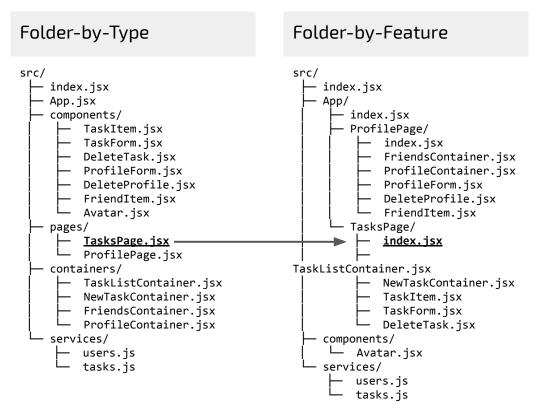


Folder-by-Type

```
src/
    index.jsx
    App.jsx
  - components/
        TaskItem.jsx
     TaskForm.jsx
     DeleteTask.jsx
     ─ ProfileForm.jsx
        DeleteProfile.jsx
     FriendItem.isx
        Avatar.jsx
    pages/
        TasksPage.jsx
       ProfilePage.jsx
  — containers/
       TaskListContainer.jsx
        NewTaskContainer.jsx
      FriendsContainer.jsx
        ProfileContainer.jsx
    services/
        users.js
        tasks.is
```



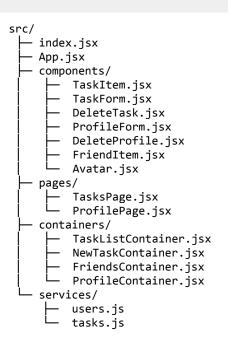






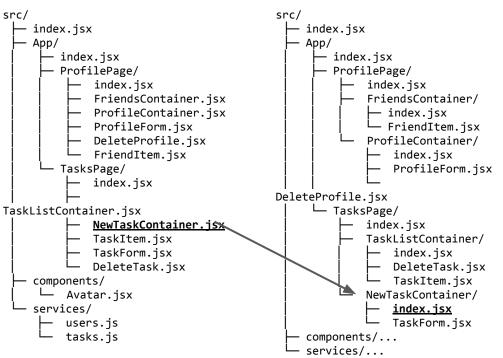


Folder-by-Type



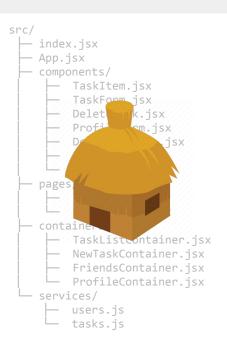
Folder-by-Feature

Extreme Fold.-by-Feat.

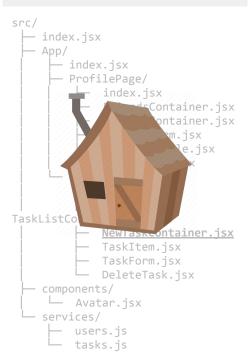




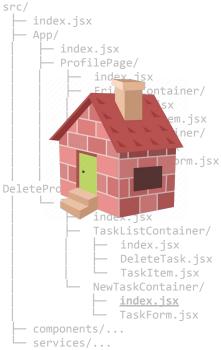
Folder-by-Type



Folder-by-Feature



Extreme Fold.-by-Feat.



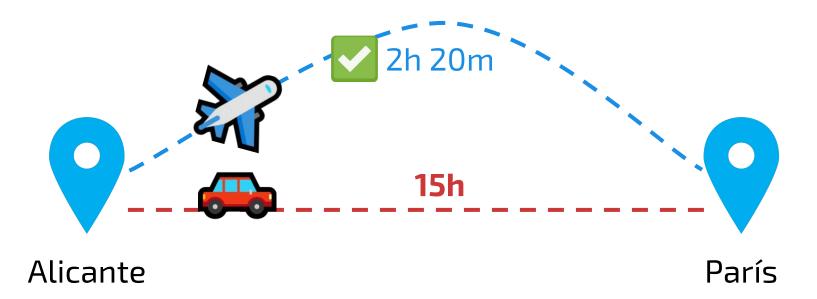




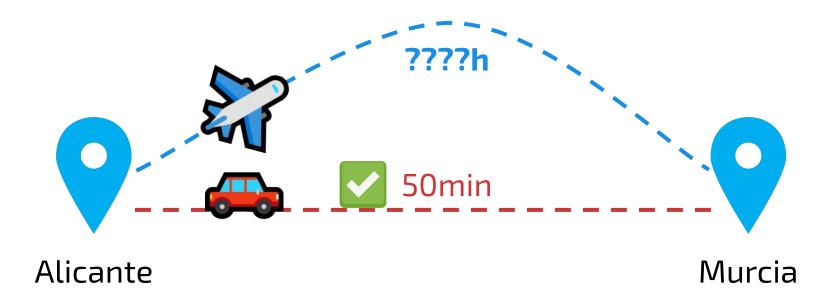






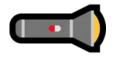














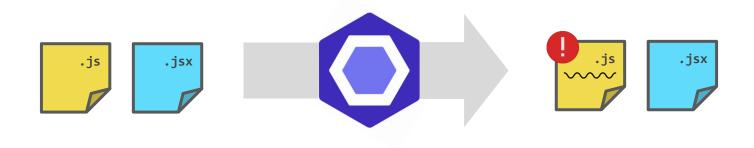
Folders Structure

Linting

Format









1. Install ESLint globally

npm install -g eslint

2. Init ESLint in the project

eslint --init

3. Add a lint script in package.json

```
{
    "scripts": {
        ...
      "lint": "eslint --fix src/**/*.{js,jsx}"
    },
}
```





4. Adjust .eslint.json with this optional recommendation

Can be placed as a eslintConfig field in the package.json

5. Run linter

```
{
   "extends": "airbnb",
   "env": {
       "browser": true
   },
   "rules": {
       "linebreak-style": "off"
   }
}
```

npm run lint





Code style - Linting stages



Editor (e.g. VSCode)



Commit (e.g. Husky)



Pipeline (e.g. Jenkins)





1. Install lint-staged and husky

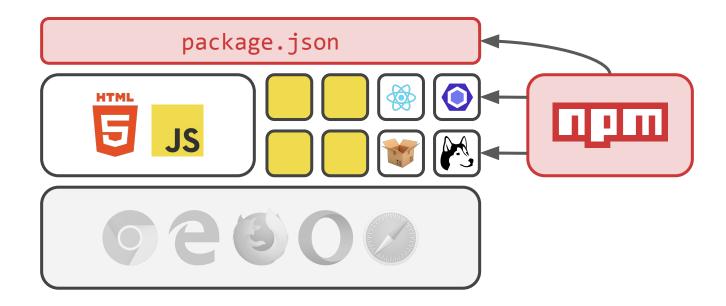
npm install --dev lint-staged husky

2. Configure the pre-commit hook in package.json

```
{
    ...
    "husky": {
        "hooks": {
            "pre-commit": "lint-staged"
        }
    },
    "lint-staged": {
        "src/**/*.{js,jsx}": [ "npm run lint" ]
    }
}
```



Bundling













Folders Structure

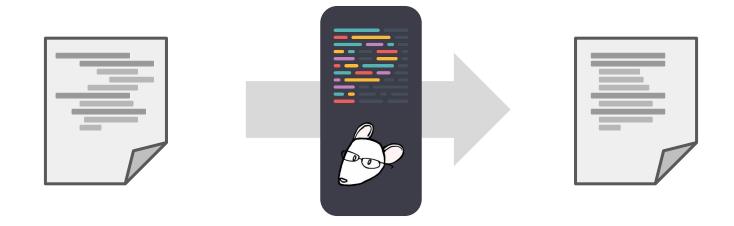
Linting

Format





Code style - Linting







1. Install Prettier

2. Add the script and the preferred rules in package. json

npm install --dev prettier

```
...
"scripts": {
    ...
    "format": "prettier --write \"*.{js,jsx,json,css}\""
},
"prettier": {
    "trailingComma": "all",
    "singleQuote": true
},
}
```





3. Add the prettier script to lint staged fired by husky

```
"npm run lint"
"src/**/*.{js,jsx,json,css,scss}": [
  "prettier --write",
  "git add"
```

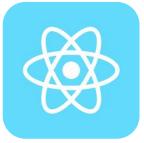
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- **Bundling**
- Code style
- **Dev Tools**

















React Developer Tools

Offered by: Facebook









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- Dev Tools





- 1. Configure a project with all the necessary tools seen.
 - a. NPM package
 - b. Parcel bundling
 - c. ESLint
 - d. Prettier
 - e. Husky
- Implement a "Hello World" React app from the project configured.
 Follow one of the folder structure proposed.





2. Setup

Introduction to React

