

# 2. Setup

Introduction to React

### Index



Dependencies



Bundling



Code style



Dev Tools

### Index



## Dependencies



Bundling

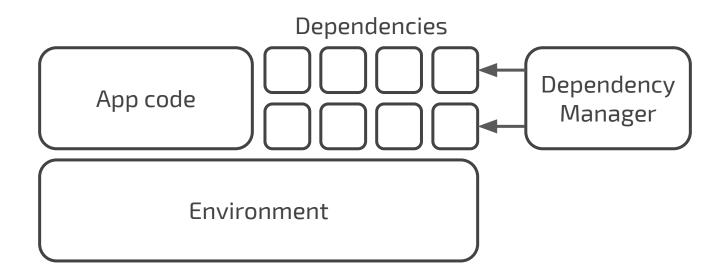


Code style

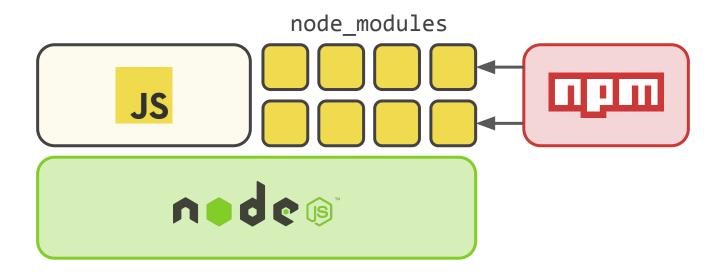


P Dev Tools

# Dependencies

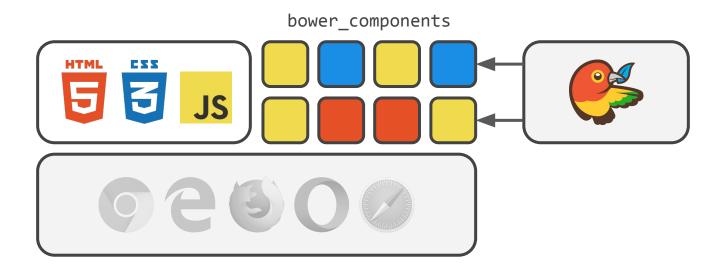






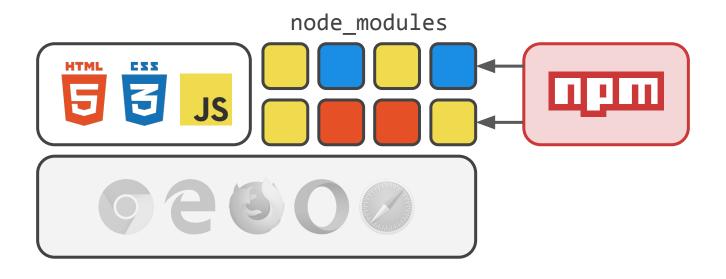


## Dependencies – Browser classic approach





## Dependencies - Browser unified approach





### Dependencies - Create project

1. Install NodeJS

• • • <> https://nodejs.org

2. Check NPM version

npm -v

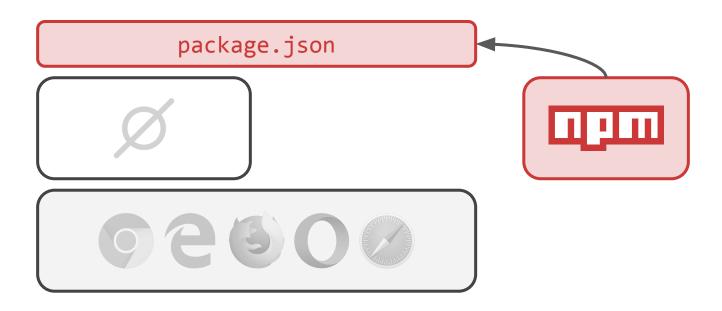
3. Create and go to a new folder

mkdir wishlist && cd wishlist

4. Start a project in the folder

npm init



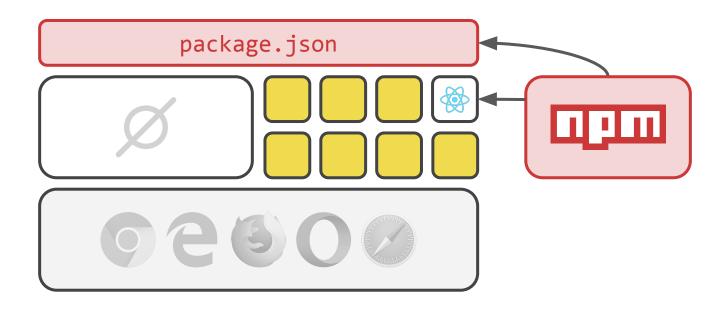




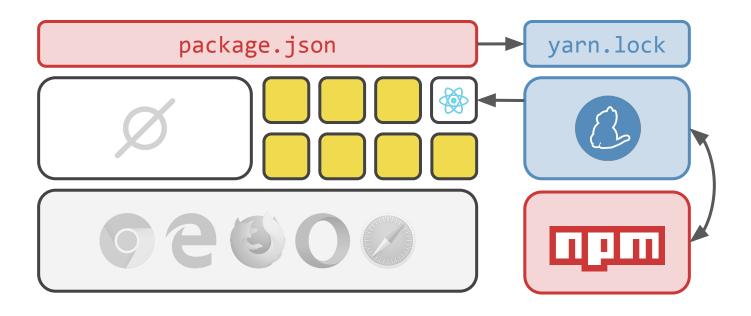
Install React in the project

npm install --save react









### Index



Dependencies



Bundling

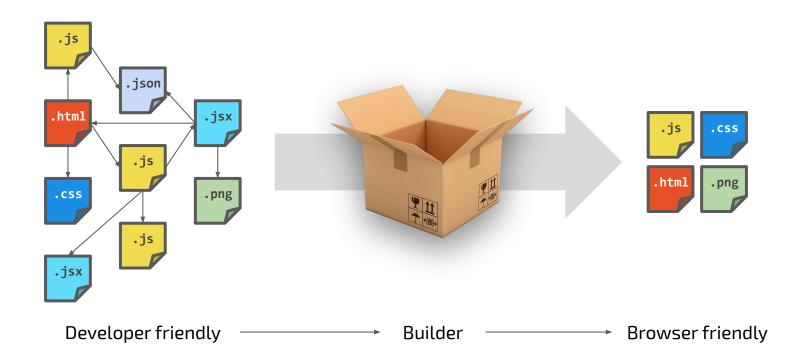


Code style



P Dev Tools

# Bundling



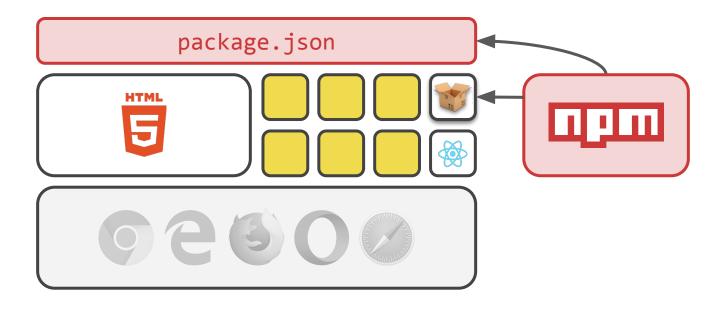


1. Install Parcel in the project

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"
    },
},
```

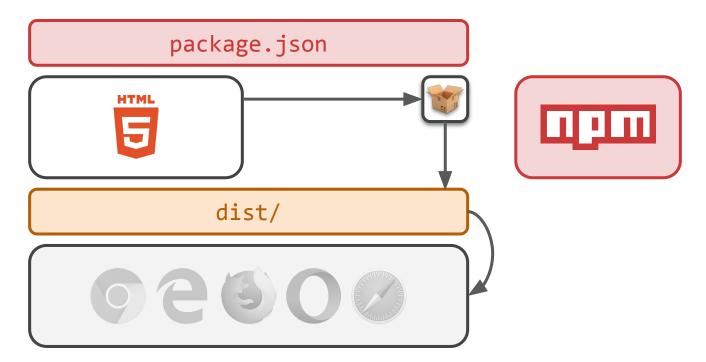
2. Run the start script

3. Open browser

```
npm start
```

```
http://localhost:1234
```







Install React DOM and start trying React

, 3

#### index.html

npm install --save react-dom

#### index.jsx

### Index

















Folders Structure

Linting

**Format** 









**Folders Structure** 

Linting

Format

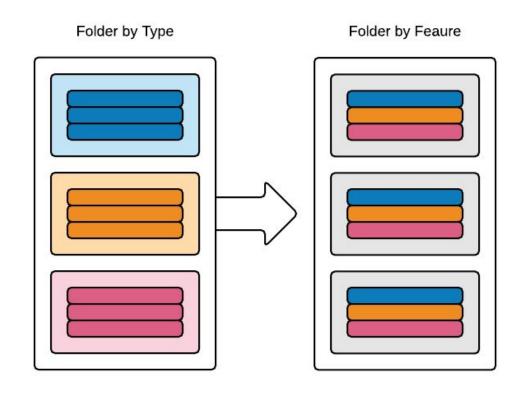


```
project-folder/
 src/
 dist/
package.json
.all-config-files
```



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







#### Folder-by-Type

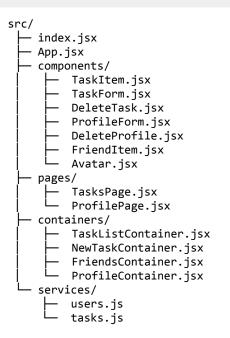
```
src/
    index.jsx
    App.jsx
  - components/
         TaskItem.jsx
      TaskForm.jsx
        DeleteTask.jsx
     ProfileForm.jsx
        DeleteProfile.jsx
     ├ FriendItem.jsx
        Avatar.jsx
    pages/
        TasksPage.jsx
     └─ ProfilePage.jsx
  - containers/
        TaskListContainer.jsx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



#### Folder-by-Feature Folder-by-Type src/ src/ index.jsx index.jsx App.jsx App/ index.jsx components/ TaskItem.isx ProfilePage/ TaskForm.jsx index.jsx DeleteTask.jsx FriendsContainer.jsx ProfileForm.jsx ProfileContainer.jsx DeleteProfile.jsx ProfileForm.jsx FriendItem.jsx DeleteProfile.jsx Avatar.isx FriendItem.jsx TasksPage/ pages/ TasksPage.jsx index.jsx ProfilePage.jsx containers/ TaskListContainer.jsx TaskListContainer.jsx NewTaskContainer.jsx NewTaskContainer.jsx TaskItem.isx FriendsContainer.jsx TaskForm.jsx ProfileContainer.jsx DeleteTask.isx services/ components/ Avatar.jsx users.is tasks.is services/ users.js tasks.js

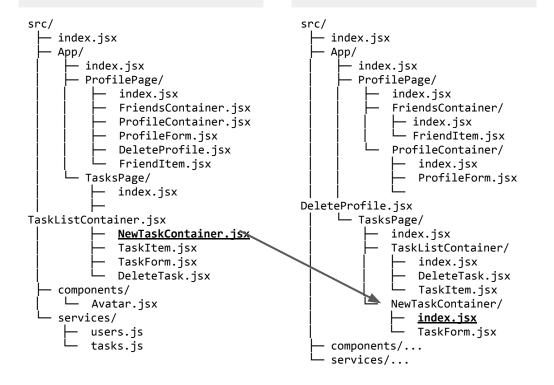


#### Folder-by-Type



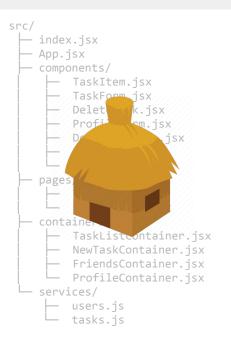
#### Folder-by-Feature

Extreme Fold.-by-Feat.

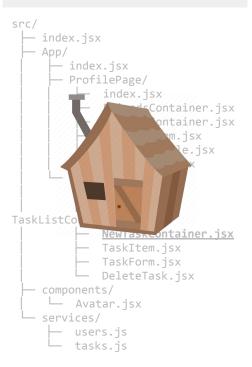




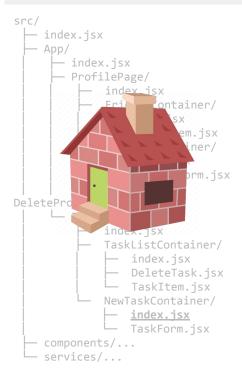
#### Folder-by-Type



#### Folder-by-Feature



#### Extreme Fold.-by-Feat.

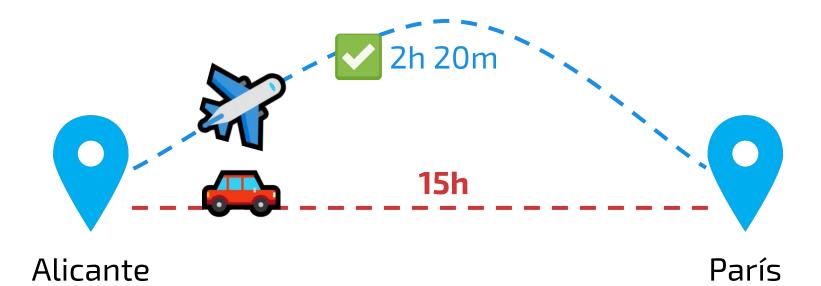










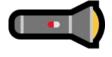






# Code style





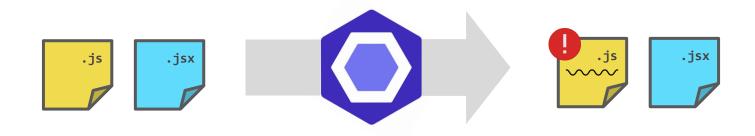


Folders Structure

Linting

Format

# Code style - Linting



- 1. Install ESLint globally
- 2. Init ESLint in the project
- 3. Add a lint script in package.json

```
npm install -g eslint
```

```
eslint --init
```



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)

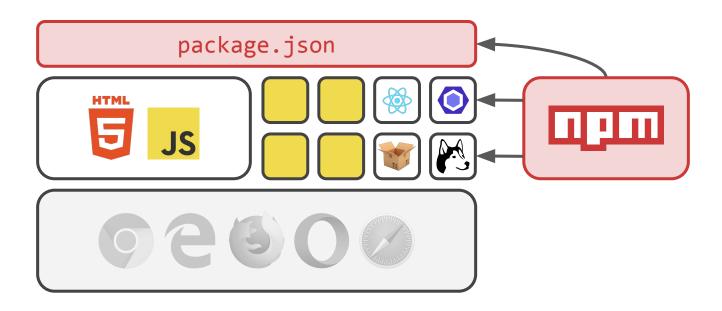
1. Install lint-staged and husky

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

npm install --dev lint-staged husky

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













Folders Structure

Linting

**Format** 





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

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

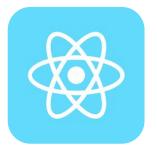
### Index

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





Extensions









#### React Developer Tools

Offered by: Facebook

★ ★ ★ ★ ★ 1,095 | **Developer Tools** | **2** 1,489,422 users





## Index

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



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



# 2. Setup

Introduction to React