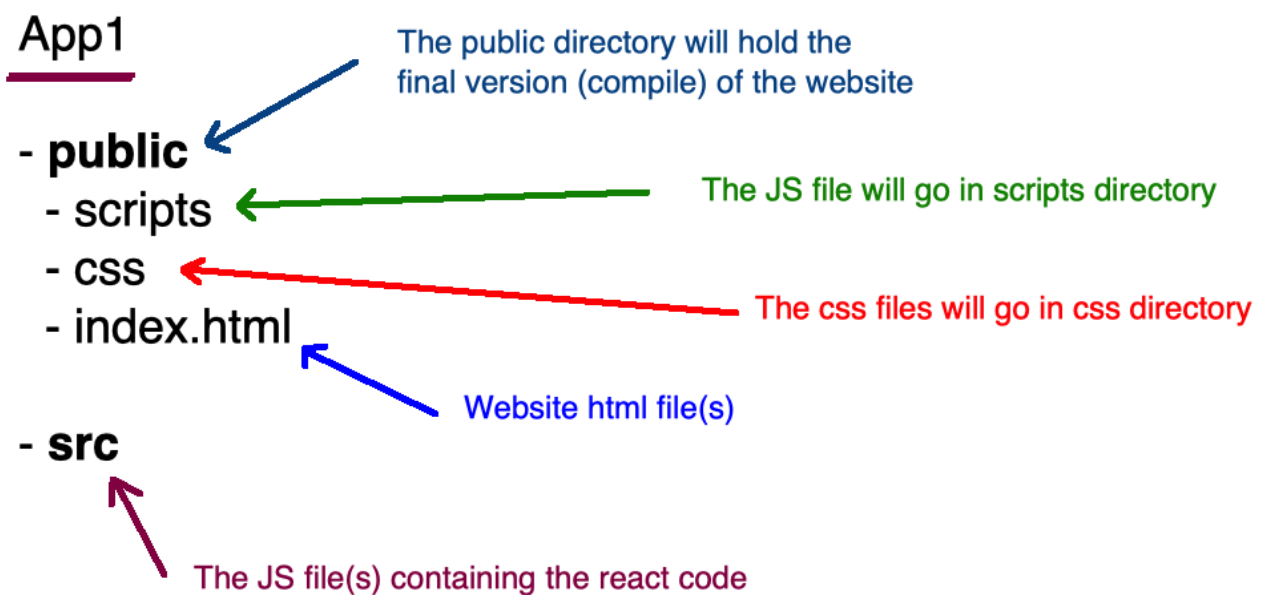# React

global installation

- **this has to be done only once**
- install babel

```
sudo npm install -g babel-cli
```

- inside the application directory install required babel preset packages

create a project

- create the project directory structure

- install required babel packages

```
npm install babel-preset-env babel-preset-react
```

- add index.html page in public directory

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Gaana</title>
  </head>
  <body>
    <h1>Welcome to My Gaana</h1>

    <div id="app"></div>

    <script
      src="https://unpkg.com/react@17/umd/react.production.min.js"
      crossorigin
    ></script>
    <script
      src="https://unpkg.com/react-dom@17/umd/react-dom.production.min.js"
      crossorigin
    ></script>
    <script src="scripts/app.js"></script>
  </body>
</html>
```

- create a file named **component.js** in src directory with following contents

```js
// template to be rendered
const template = <h1>Song Info Component</h1>

// the placeholder where the template will be rendered
const root = document.getElementById('app')

// render the template into the root element
ReactDOM.render(template, root)
```

- compile the react code to the previous generation js code

```
  babel src/component.js --out-file public/scripts/app.js --presets=env,react
```

- start the project

```
live-server public
```