

CSS

The project uses [TailwindCSS](#) for styling. Most styling can be found inline but the small amount that has been abstracted away has been placed in `./src/index.css`. But, as per the documentation on [reusing styles](#), it is advised that you keep this to a minimum:

“...you can use Tailwind’s @apply directive to extract repeated utility patterns to custom CSS classes when a template partial feels heavy-handed.

Avoiding premature abstraction

*Whatever you do, **don’t use @apply just to make things look “cleaner”**. Yes, HTML templates littered with Tailwind classes are kind of ugly. Making changes in a project that has tons of custom CSS is worse.*

If you start using @apply for everything, you are basically just writing CSS again and throwing away all of the workflow and maintainability advantages Tailwind gives you, for example:

- ***You have to think up class names all the time** — nothing will slow you down or drain your energy like coming up with a class name for something that doesn’t deserve to be named.*
- ***You have to jump between multiple files to make changes** — which is a way bigger workflow killer than you’d think before co-locating everything together.*

- ***Changing styles is scarier*** — CSS is global, are you sure you can change the min-width value in that class without breaking something in another part of the site?
- ***Your CSS bundle will be bigger*** — oof.

If you're going to use @apply, use it for very small, highly reusable things like buttons and form controls — and even then only if you're not using a framework like React where a component would be a better choice.

Code Formatting

The project has been initialized with [Prettier](#) for code formatting upon save. It also has a [plugin](#) installed that will [sort Tailwind classes](#) upon save.

```
module.exports = {
  trailingComma: 'es5',
  tabWidth: 4,
  semi: false,
  singleQuote: true,
}

module.exports = {
  plugins: [require('prettier-plugin-tailwindcss')],
}

module.exports = {
  tailwindConfig: './tailwind.config.js',
}
```

“./prettier.config.js”

Testing

E2E Testing

End to end (E2E) testing is done using CypressJS (Cypress) and Github Actions (Features • GitHub Actions). Documentation specific to the merging of these two technologies can be found here: [GitHub Actions | Cypress Documentation](#).

In the root folder you will find a *'main.yml'* file in *'./github/workflows'*. Whenever you push this repo to GitHub it will scan this file and execute the tests that it points to. These tests can be found in *'./cypress/e2e/'*. For more information on the technology specifics, see the original documentation above as well as comments found in the test files themselves as seen below:

```
// finds all links in the page that aren't
// mail or external links and clicks them
// and checks if they direct to the correct URL
// and checks that they don't load the 404 page
it("check all links to sites", () => {
  cy.viewport("macbook-15");
  cy.visit("/");
  cy.get('a:not([href*="mailto:"])')
    .not('[target*="_blank"]')
    .each((page) => {
      const href = page.prop("href");
      cy.visit(href);
      cy.url().should("include", href);
      cy.get('[data-cy="404"]')
        .should("not.exist");
      cy.go("back");
    });
});
```

Component Testing

Component testing is very similar but offers some different issues to overcome, the first of which is the fact that since we render a component in isolation none of the styling is rendered. To get around this I have created a plugin (`./cypress/plugins/tailwind.js`) that runs before each test and loads the CSS file containing the TailwindCSS classes:

```
// A plugin to render CSS correctly when doing Component tests

before(() => {
  cy.exec('npm run tailwindcss -i ./src/index.css -m').then(({stdout})
    => {
      if (!document.head.querySelector('#tailwind-style')) {
        const link = document.createElement('style')
        link.id = 'tailwind-style'
        link.innerHTML = stdout

        document.head.appendChild(link)
      }
    })
})
```

Grouped Imports

The route imports in `./src/index.js` have been grouped together for simplicity. To do this we have a proxy file `./src/routes.js` who's only function is to import and export all routes. To keep with this convention, when a new route is created it will need to be imported into `./src/routes.js` and then into `./src/index.js` as seen below:

```
export { default as Login } from './routes/Login'
export { default as Register } from './routes/Register'
export { default as Dashboard } from './routes/Dashboard'
export { default as EditProfile } from './routes/EditProfile'
export { default as Contribute } from './routes/Contribute'
export { default as UserDirectory } from './routes/UserDirectory'
export { default as DataCommons } from './routes/DataCommons'
export { default as UserProfile } from './routes/UserProfile'
export { default as Recipe } from './routes/Recipe'
export { default as NewRecipeSubmission } from './routes/new-recipe/NewRecipeSubmission'
export { default as NewRecipeTerms } from './routes/new-recipe/NewRecipeTerms'
export { default as Ingredient } from './routes/Ingredient'
export { default as NotFound } from './routes/NotFound'
export { default as NewRecipeName } from './routes/new-recipe/NewRecipeName'
export { default as NewRecipeFork } from './routes/new-recipe/NewRecipeFork'
export { default as Terms } from './routes/Terms'
export { default as PrivacyPolicy } from './routes/Terms'
export { default as NotificationSettings } from './routes/Terms'
export { default as Guide } from './routes/Terms'
```

'./src/routes.js'

```
// Routes
import {
  Login,
  Register,
  Dashboard,
  EditProfile,
  Contribute,
  UserDirectory,
  DataCommons,
  UserProfile,
  Recipe,
  NewRecipeSubmission,
  NewRecipeTerms,
  NotFound,
  NewRecipeName,
  NewRecipeFork,
  Ingredient,
  Terms,
} from './routes';
```

'./src/index.js'