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Project Linaria

Linaria is a CSS library that allows the user to write CSS code in JavaScript but with zero runtime. The CSS code is extracted to seperate css files during building the app. It has very similar synatx and a lot of similarities with Sass. It also has the added benefit of not needing a CSS prepocessor altho it does support it.

Installation guide:

First we need to set up a new React app with its own app.js/index.

Then we need to install Linaria along with all of its dependencies by starting the terminal and running the command:

* npm install linaria

Once its installed we can implement it into our React application by adding the code:

* import {css} from ‘linaria’;

To further help with using linaria we can use Babel which is a diffrent JavaScript compiler which can convirt JSX syntax to modrern JS. Its installed using:

* npm install –save-dev @babel/preset-react
* After running the previous command we need to add .babelrc to our root folder and add the following code:
* {
* "presets": [
* "@babel/preset-env",
* ["@babel/preset-react", {
* "runtime" : "automatic"
* }]
* ]
* }

With the intent of showing how Linaria would be applicable in a realistic situation I set up my own local mock json api server. In order for the web service to function correctly this mock json needs to be ran first.

In order to run the mock api you need to navigate to the folder JSON-MOCK-API and run the

command: **npx json-server – watch src/db.json**

After running the server you should navigate to Linaria project folder and run

command: npm start

after running this command the website will be hosted at <http://localhost:3001/>

During my work with Linaria and with all of the documentation I have come to the conclusion that Linaria along with all of the benefits it provides has a very niche applicable situations. Its performance benefits would mainly be noticable in a situation where the server hosting the app is completly overloaded causing major compiling, performance and user experience issues. It is also fairly complicated to set up if you arent using ReactJS and diffrent compilers like Babel.