

RLR Audio Web

9/21/2022

OVERVIEW

An internal website for the RLR Audio team.

GOALS

The website should expose an extensible list of features to be used by RLR Audio researchers and engineers. These include:

- Allow users to download a set of files - pdf documents and zip files.
- Allow a set of admins to edit files and the shown file metadata

SPECIFICATIONS

Stack

React

Facebook's web UI framework. <https://reactjs.org/tutorial/tutorial.html>

Webpack

Tool for managing tasks like transpilation, minification and bundling, code splitting and so on.
<https://webpack.js.org/>

CSS Frameworks and UI Component Libraries

There are many UI component libraries out there, and I suspect that Facebook has its own. This website does not require a full featured component library, so I will just be using TailwindCSS which is an atomic CSS library, sort of like Bootstrap.

Atomic CSS basically means a large collection of very small css classes, which usually wrap just one attribute. Seems like inline CSS with extra steps, but it helps to keep things like sizes, dimensions, fonts and colors consistent throughout the app. There are documented ways to use it to implement many components and features: [Tailwind CSS Components - 600+ Free Examples and Templates \(tailwindcss.com\)](https://tailwindcss.com/docs/components)

If more complex features are needed that use things like tree views and date pickers, these are libraries I found which are free, popular and contain a date picker:

- <https://blueprintjs.com/>
- <https://mantine.dev/>

Hosting

Website will be hosted via Github Pages, in a public facebook repo, under facebook/rbraudioweb. An action has been set up to deploy a Github Pages site whenever changes are made to the main branch, so content files can be changed with the Github webapp.