**Palette Picker Web Application**

**Dependencies Used**

1. **Material UI** (<https://material-ui.com/>) – Library for readily available React components
2. **React Router** (<https://reacttraining.com/react-router/>) – Page Transitions without refreshing the server
3. **React Color** (<https://casesandberg.github.io/react-color/>) - Library for the color selector in the NewPaletteForm component
4. **React Sortable (**<https://github.com/clauderic/react-sortable-hoc>) – Library for drag and drop
5. **React Slider (**<https://material-ui.com/components/slider/>) –Slider component to change shades of colors from Material UI
6. **Chroma JS (**<https://gka.github.io/chroma.js/>) – Library to convert colors to wide array of formats. Used to help determine color bright/darkness
7. **Emoji Mart** (<https://missive.github.io/emoji-mart/>) – Library to select an emoji when saving a newly created palette

**Components**

* **App.js** – Renders the application
* **Colorbox.js** – The individual color box component with the links to ‘more’ and ‘copy’ within the Palette component
* **ColorHelpers.js** – Generate the palette colors
* **ColorPickerForm.js** - Component for the form within the drawer of the 'Create a Palette' page
* **DraggableColorBox** – Individual component for each of the moveable color boxes in the create a palette page
* **DraggableColorList** – Component for the colors that can be moved and rearranged within the Create a palette form
* **Index.js** -default index.js file
* **MiniPalette.js** – The mini color boxes displayed for each of the palettes
* **NavBar.js** – Navbar component with a link to go to home page, scroll for different shades of a color, and provide a color format in hexadecimal, rgb, and rgba
* **NewPaletteForm.js** – Main Component for Palette Creation Form
* **Page.js –** Component for the page transition between routes
* **Palette.js** – Main component with all the different palette colors. Also includes Nav and Footer
* **PaletteFooter.js** – Footer component with name of palette and emoji
* **PaletteFormNav.js** – Component for the navigation bar in the palette creation form
* **PaletteList.js** – The homepage component with the entire list of palettes.
* **PaletteMetaForm.js** – Modal component that pops up after hitting ‘Save Palette’ in the PaletteFormNav
* **seedColors.js** – Houses the default palette information
* **SingleColorPalette.js** – Individual palette component with all the different shades of 1 color

**Component Tree**

1. App.js
   1. NewPaletteForm.js
      1. seedColors.js
      2. PaletteFormNav.js
         1. PaletteMetaForm.js
      3. ColorPickerForm.js
      4. DraggableColorList.js
         1. DraggableColorBox.js
   2. PaletteList.js
      1. MiniPalette.js
   3. Palette.js
      1. NavBar.js
      2. ColorBox.js
         1. Links to SingleColorPalette.js via props
            1. Uses colorHelper.js to generate shades of a color
      3. PaletteFooter.js
   4. Page.js (Page Transitions)
   5. PaletteList (Catch / Error Route)