**BACK END SET UP**

**FRONT END SET UP**

**Create the react app:**

**create-react-app client** // this puts the app into a directory called client. Separating it from the backend/server code.

**cd client**

**npm start**

**Bootstrap:**

Either basic bootstrap

<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css" integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO" crossorigin="anonymous">

<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js" integrity="sha384-ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIPm49" crossorigin="anonymous"></script>

<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js" integrity="sha384-ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy" crossorigin="anonymous"></script>

Or

Bootstrap React

The best way to consume React Bootstrap is via the npm package which you can install with npm (or yarn if you prefer).

If you plan on customizing the Bootstrap Sass files, or don't want to use a CDN for the stylesheet, it may be helpful to install [vanilla Bootstrap](https://getbootstrap.com/docs/4.2/getting-started/download/#npm) as well.

**npm install react-bootstrap bootstrap**

React-Bootstrap doesn't ship with any included css. However, some stylesheet **is required** to use these components. How and which bootstrap styles you include is up to you, but the simplest way is to include the latest styles from the CDN.

**<!-- Bootstrap -->**

**<link**

**rel="stylesheet"**

**href="https://maxcdn.bootstrapcdn.com/bootstrap/4.2.1/css/bootstrap.min.css"**

**integrity="sha384-GJzZqFGwb1QTTN6wy59ffF1BuGJpLSa9DkKMp0DgiMDm4iYMj70gZWKYbI706tWS"**

**crossorigin="anonymous"**

**/>**

**Font Awesome:**

**<!-- Font Awesome -->**

**<link**

**rel="stylesheet"**

**href="https://use.fontawesome.com/releases/v5.6.3/css/all.css"**

**integrity="sha384-UHRtZLI+pbxtHCWp1t77Bi1L4ZtiqrqD80Kn4Z8NTSRyMA2Fd33n5dQ8lWUE00s/"**

**crossorigin="anonymous"**

**/>**

**Concurrently**

If there is a back end, install concurrently so that the backend and front end server can be started with one command.

**cd ..** // cd to the master directory

**npm I concurrently**

change package.json in server directory:

“scripts”: {

“client-install” “npm install –prefix client”,

“start”: “node server.js”,

“server”: “nodemon server.js”,

**“client”: “npm start –prefix client”,**

**“dev”: “concurrently \”npm run server\” \”npm run client\”**

}

Can now run both backend and frontend servers with

npm run dev

from master directory.

**Clean up Create React App**

**Delete logo.svg in src**

**Amend app.js to remove import logo**

In the render return delete all in main div and add some temporary code such as <h1>App Name</h1>

**Delete content of App.css**

Can use App.css as the global style sheet for the app.

**Client Directory Structure**

Within src create a basic directory structure

**assets** // will hold images etc.

**components** // for react components. Will create subdirectories for each logical view. Eg layout to hold the header, footer etc.

[will add **actions**, **reducers** for redux if relevant]

**utils** // for utility files such setAuthToken.js

**validation**

**Navbar**

If there will be authentication eg for customers or staff, use a class component.

If using Navbar from bootstrap name the component Header.

To create transparent navbar delete the bg attribute, create a class (eg navbar-transparent) and in the custom css file (eg App.css) make the background-color transparent and have a media query which sets a background color if the max-width is 768px or maybe 812 (landscape on an iphone 10)