1.2 Project Setup and create-react-app

1.2.1 Requirements

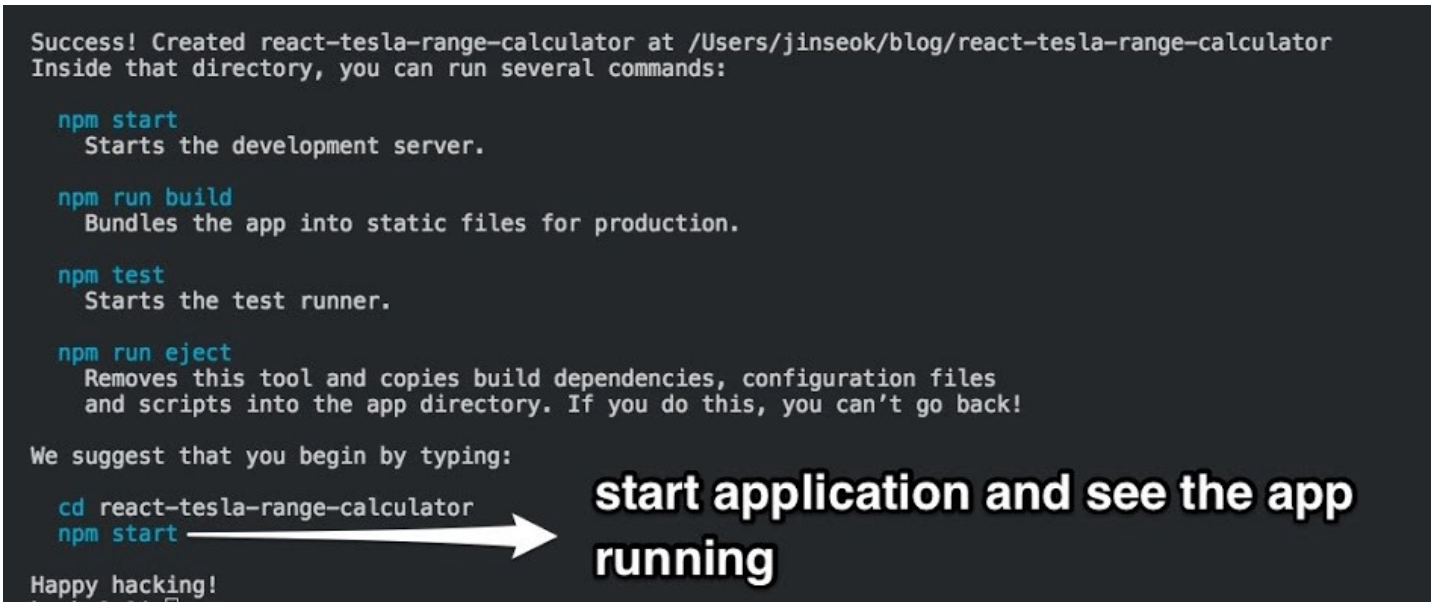
The tools and versions I used during the implementation of this app:

```
node v7.3.0
npm v3.10.10
```

1.2.2 create-react-app

creat-react-app is a new tool open-sourced by Facebook for fast react application development, which allows you to easily start React applications without complex setups. You can easily install our project `react-tesla-range-calculator` and start the application right away with the following command:

- npm install -g create-react-app
- create-react-app react-tesla-range-calculator
- cd react-tesla-range-calculator
- npm start



Create a new application through `creat-react-app` and open `http://localhost:3000/` to check the generated application. If you see the screen

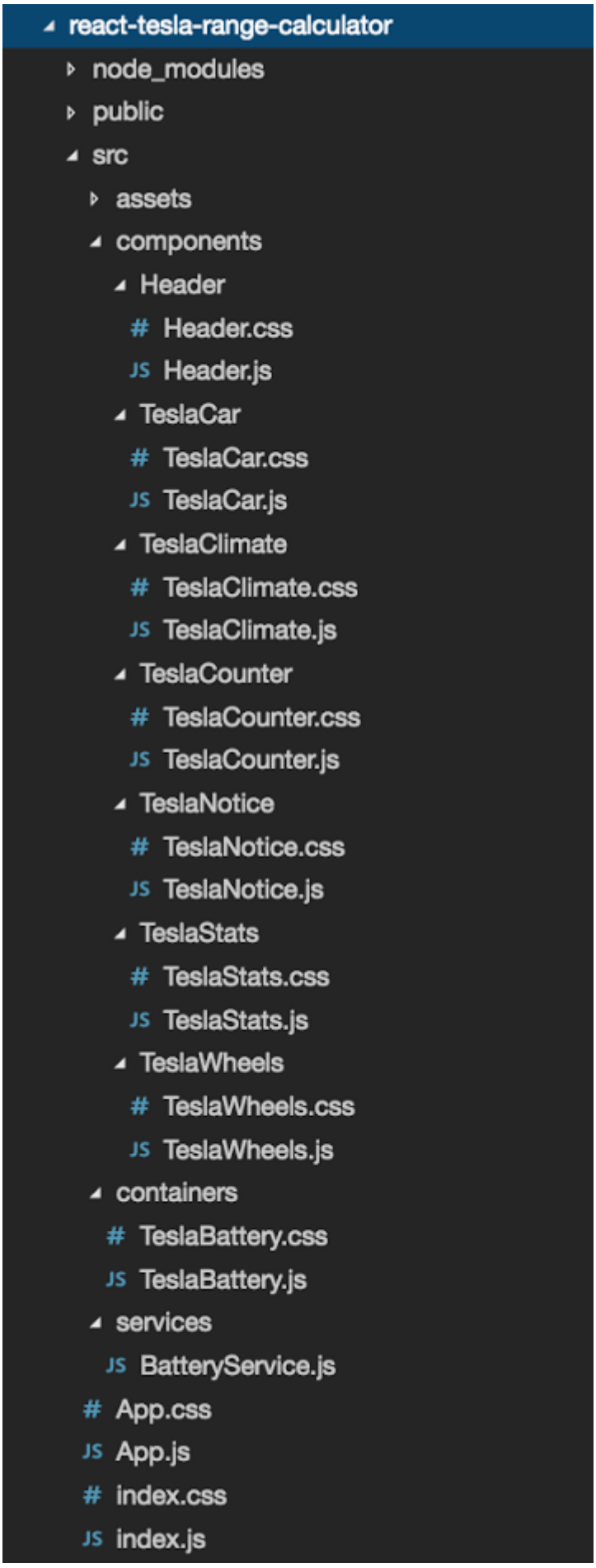
below, the project has been successfully set up.

```
<svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 841.9 595.3">
    <g fill="#61DAFB">
        <path d="M666.3 296.5c0-32.5-40.7-63.3-103.1-82.4 14.4-63.6 8-114.2-20.2-130.4-6.5-3.8-14.1
        <circle cx="420.9" cy="296.5" r="45.7"/>
        <path d="M520.5 78.1z"/>
    </g>
</svg>
```

Before we start the project, we need to touch the project source structure. Just leave the files we need for the project and delete the rest. (Delete App.test.js, logo.svg) Now our src directory should look like this:

```
src
 - App.css
 - App.js
 - index.css
 - index.js
```

Here is project source structure :



1.2.3 Project Entry Point

First we need to set the entry point to start our Tesla app. Thankfully it's already

created by `create-react-app`.

`src/App.js` is the entry point for our app.

First up, change your `App.js` to this:

```
import React, { Component } from 'react';
import './App.css';
class App extends Component {
  render() {
    return (
      <div>
        <h2>Let's get started</h2>
      </div>
    );
  }
}
export default App;
```

When you save the file, it will be automatically compiled and you can see the updated screen.

```
import React, { Component } from 'react';
//import './App.css';
class App extends Component {
  render() {
    return (
      <div>
        <h2>Let's get started</h2>
      </div>
    );
  }
}
export default App;
```

1.2.4 Project images/assets

All images required for this project can be downloaded from:

- images Download
- favicon.ico Download

Unpack `assets.zip` and place all images in the `src/assets` directory and place the downloaded `favicon.ico` in the source root.

```
react-tesla-range-calculator/src/asstets
```

> *Any time you feel like if you've missed something or unsure if you're doing right, you can refer to the source code as a reference.*

1.2.5 Data service

The data you can get from Tesla site is hard-coded and very large, so we'll use Todd's new version of the data to make it easier to use. link

We do not use the `Injectable decorator` used in Angular2, so we will copy only the `export` part, just save it in `src/services/BatteryService.js` for now. Later, we will use `import` it in `TeslaBattery` container.

We will revisit this data service later.