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

```
Success! Created react-tesla-range-calculator at /Users/jinseok/blog/react-tesla-range-calculator Inside that directory, you can run several commands:

npm start
Starts the development server.

npm run build
Bundles the app into static files for production.

npm test
Starts the test runner.

npm run eject
Removes this tool and copies build dependencies, configuration files and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:
cd react-tesla-range-calculator
npm start

Happy hacking!

Start application and see the app
running
```

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

below, the project has been successfully set up.

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:

node_modules public assets components ▲ Header # Header.css JS Header.js ▲ TeslaCar # TeslaCar.css JS TeslaCar.js ▲ TeslaClimate # TeslaClimate.css JS TeslaClimate.js ▲ TeslaCounter # TeslaCounter.css JS TeslaCounter.js ▲ TeslaNotice # TeslaNotice.css JS TeslaNotice.js ▲ TeslaStats # TeslaStats.css JS TeslaStats.js ▲ TeslaWheels # TeslaWheels.css JS TeslaWheels.js # TeslaBattery.css JS TeslaBattery.js ▲ services JS BatteryService.js # App.css JS App.js # index.css Js index.js

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:

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

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.