

## 1.10 TeslaStats Component

Now we are going to build the `TeslaStats` component. Create the `src/components/TeslaStats` directory, create a `TeslaStats.js` file in it, and enter the following code:

```
import React from 'react';
import PropTypes from 'react';
import './TeslaStats.css';

const TeslaStats = (props) => {
  const listItems = props.carstats.map((stat) => (
    <li key={stat.model}>
      <div className={'tesla-stats-icon tesla-stats-icon--${stat.model.toLowerCase()}'}></div>
      <p>{stat.miles}</p>
    </li>
  ));
  return (
    <div className="tesla-stats">
      <ul>
        {listItems}
      </ul>
    </div>
  )
};

TeslaStats.propTypes = {
  carstats: PropTypes.array
}

export default TeslaStats;
```

`TeslaStats` is also a `presentational component` that receives state, and it takes a list of arrays containing model values by `props` and renders them.

First, let's consider how to transform a list in JavaScript. The following code uses the `map()` function to take a `numbers` array and return a double value.

This code prints `[2, 4, 6, 8, 10]` to the console.

```
const numbers = [1, 2, 3, 4, 5];
const doubled = numbers.map((number) => number * 2);
console.log(doubled);
```

Converting an array to a list in React is almost identical. Here we use the JavaScript `map` function to iterate through the `props.carstats` array.

For each iteration, it returns a `<li>` element containing the `model` and a `<li>` element surrounding the `<p>` tag containing `miles`.

Finally, it returns the `listItems` array in the `<ul>` element.

## 1.10.1 TeslaStats Component Style

Next, create a `TeslaStats.css` file in the `src/components/TeslaStats` directory and type the following style. Since the code is long and omitted here, let's check the [source code](#)

```
...
.tesla-stats {
  margin: -70px 0 30px;
}
.tesla-stats ul {
  text-align: center;
}
...
```

The task that this component performs is to iterate through the `props.carstats` array and bind a particular class to an element based on `stat.model`. You can then replace the background image to display the Tesla model.

## 1.10.2 Import TeslaStats component in TeslaBattery Container

Then add following `import` to use the `TeslaStats` component in `TeslaBattery.js`.

```
...
import TeslaStats from '../components/TeslaStats/TeslaStats';
...
render() {
  const { config, carstats } = this.state;
  return (
    <form className="tesla-battery">
      <h1>Range Per Charge</h1>
      <TeslaCar wheelsize={config.wheels}/>
      <TeslaStats carstats={carstats}/>
      <TeslaNotice />
    </form>
  )
}
```

We need to pass the `carstats` array to `props`, so let's set the value using

`BatteryService` we've already implemented.

## 1.10.3 CalculateStats and setState

Add import `getModelData` first.

After the component is mounted via `componentDidMount()`, it calls the `statsUpdate()` function. When `calculateStats()` function that receives `carModels` and the current state value as the input is executed, the object with the matching `model` and `miles` values is returned, and the return value is passed through the `setState()` and then state object is updated.

```
...
import { getModelData } from '../services/BatteryService';
...
calculateStats = (models, value) => {
  const dataModels = getModelData();
  return models.map(model => {
    // ES6 Object destructuring Syntax,
    // takes out required values and create references to them
    const { speed, temperature, climate, wheels } = value;
    const miles = dataModels[model][wheels][climate ? 'on' : 'off'].speed[speed][temperature];
    return {
      model,
      miles
    };
  });
}

statsUpdate() {
  const carModels = ['60', '60D', '75', '75D', '90D', 'P100D'];
  // Fetch model info from BatteryService and calculate then update state
  this.setState({
    carstats: this.calculateStats(carModels, this.state.config)
  })
}

componentDidMount() {
  this.statsUpdate();
}
...
```

One caveat is that explicit binding in the `TeslaBattery` constructor function is required to access `this` in the class.

```
...
this.calculateStats = this.calculateStats.bind(this);
this.statsUpdate = this.statsUpdate.bind(this);
...
```

## 1.10.4 Add Additional Style

Additional styling is required for a nice layout here.

First open the `src/index.css` file and delete all existing code and add the following:

```
@font-face {
  font-family: 'RobotoNormal';
  src: url('../assets/fonts/Roboto-Regular-webfont.eot');
  src: url('../assets/fonts/Roboto-Regular-webfont.eot?#iefix') format('embedded-opentype'),
        url('../assets/fonts/Roboto-Regular-webfont.woff') format('woff'),
        url('../assets/fonts/Roboto-Regular-webfont.ttf') format('truetype'),
        url('../assets/fonts/Roboto-Regular-webfont.svg#RobotoRegular') format('svg');
  font-weight: normal;
  font-style: normal;
}
*, *:before, *:after {
  box-sizing: border-box;
  margin: 0;
  padding: 0;
  font: 300 14px/1.4 'Helvetica Neue', Helvetica, Arial, sans-serif;
  -webkit-font-smoothing: antialiased;
}
.cf:before,
.cf:after {
  content: '';
  display: table;
}
.cf:after {
  clear: both;
}
.cf {
  *zoom: 1;
}
```

Next, open the `src/App.css` file and delete all existing code and add the following:

```
.wrapper {
  margin: 100px 0 150px;
}
```

The work result screen so far is as follows.

```
export function getModelData() {
  return {
    '60': {
      19: {
        on: {
          speed: {
            45: {
              '-10': 224,
              '0': 255,
              '10': 287,
```

```
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}  
},  
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    },  
    50: {  
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```

```
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        '40': 240
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      55: {
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```

```
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```

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```



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```

```
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```

```
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```

```
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}
}
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          '40': 287
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```

```
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}  
},  
21: {  
  on: {  
    speed: {
```



```
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}
},
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```

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  },  
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          '40': 338  
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      },  
    },  
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      '40': 290  
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}  
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      '30': 331,  
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  },  
}
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        70: {
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    }
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  },
}
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},  
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    },  
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        },  
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            }
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