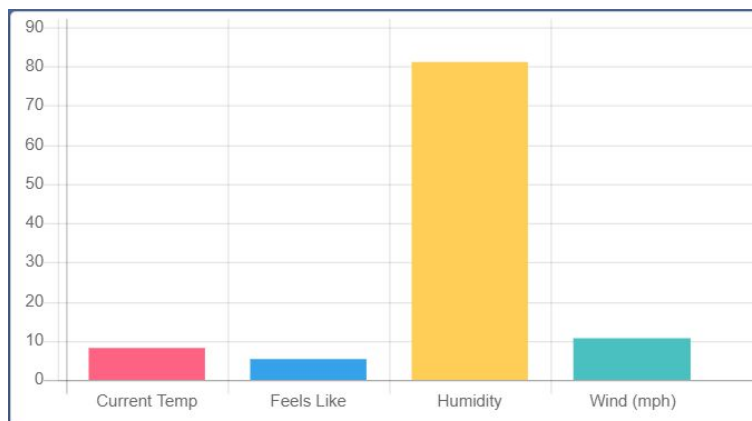# Chart.JS Summary

Chart.JS is a javascript charting library with a number of available features and different chart types using the HTML5 Canvas element. Chart.JS provides a highly customisable chart that may seem confusing, but Chart.JS provides detailed documentation for all their chart types and the options available.

There are a number of reasons why a developer may choose to use Chart.js, we decided to use it in our first visualisation as it was a library that we had used before in other projects and it's fairly easy to use. Chart.Js is an open source, community project which means the library is free to use with little issue in terms of legalities. Chart.JS also provides 8 different chart types:
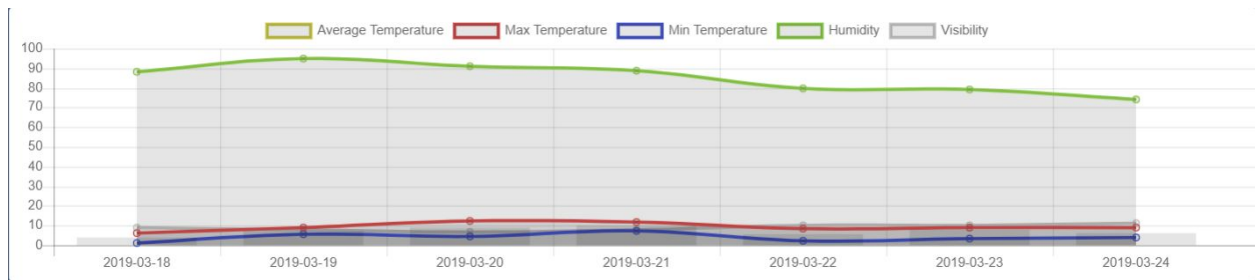
- Line
- Bar
- Radar
- Doughnut/Pie
- Polar Area
- Bubble
- Scatter
- Area

This provided us with additional flexibility when visualising our data and Chart.JS is naturally responsive, which allows the charts to be redrawn as the window size is changed natively, this drastically cuts down on CSS rules and Javascript code that would allow us to do that otherwise.

During the development of TMPST, we considered a number of different chart tools, some of which we used elsewhere in the site, which you can read about in their tutorials. Chart.JS is the first visualisation tool we used, to analyse information about the current weather and the forecasted weather. In our website we used two different charts from ChartJS, a bar chart for the current weather as shown here;

And you can see here we used a line chart for the forecasted weather;

For further information and in-depth tutorials for each of the charts we've used and any of the other charts provided by Chart.JS, please visit:

https://www.chartjs.org/docs/latest/getting-started/usage.html