CHART.JS

It is used to create different types of charts in react like bar chart, line chart etc. to visualize the data

INSTALLATION:

This is the main github of it, here we can find its installation by scrolling down, we can find different examples in the examples folder and much more.

<https://github.com/jerairrest/react-chartjs-2>

Now to install, again just create react app, then open react app folder and in that, install chart js for react, chart.js as name suggest made for js, to use it in react, we need to use react wrapper over it so the installation command is

npm install --save react-chartjs-2 chart.js

OR

yarn add react-chartjs-2 chart.js

Again, we can find these installation links on above mentioned github account by scrolling a bit down.

WORKING:

To make any chart, we need two things, data and components

Lets start with bar chart, go in examples folder, src, components and open bar.js

import React from 'react';

import './App.css';

//importing bar chart component

import {Bar} from 'react-chartjs-2';

//data for the chart

const data = {

  labels: ['January', 'February', 'March', 'April', 'May', 'June', 'July'],//labels for the chart

  //propertuies of the chart below

  datasets: [

    {

      label: 'My First dataset',

      backgroundColor: 'rgba(255,99,132,0.2)',

      borderColor: 'rgba(255,99,132,1)',

      borderWidth: 1,

      hoverBackgroundColor: 'rgba(255,99,132,0.4)',

      hoverBorderColor: 'rgba(255,99,132,1)',

      data: [65, 59, 80, 81, 56, 55, 40]//data for the chart

    }

  ]

};

function App() {

  return (

    <div>

      <h2>Bar Chart</h2>

        <Bar

          data={data}

          width={100}

          height={50}

          options={{

            maintainAspectRatio: false

          }}

        />

    </div>

  );

}

export default App;

This the code for the bar chart example. We have use data which consist of some properties of charts like chart color, hover color, labels , data to display.

const data = {

  labels: ['January', 'February', 'March', 'April', 'May', 'June', 'July'],//labels for the chart

  //propertuies of the chart below

  datasets: [

    {

      label: 'My First dataset',

      backgroundColor: 'rgba(255,99,132,0.2)',

      borderColor: 'rgba(255,99,132,1)',

      borderWidth: 1,

      hoverBackgroundColor: 'rgba(255,99,132,0.4)',

      hoverBorderColor: 'rgba(255,99,132,1)',

      data: [65, 59, 80, 81, 56, 55, 40]//data for the chart

    }

  ]

};

Then we display bar chart using bar component in the return div

function App() {

  return (

    <div>

      <h2>Bar Chart</h2>

        <Bar

          data={data}

          width={100}

          height={50}

          options={{

            maintainAspectRatio: false

          }}

        />

    </div>

  );

}

export default App;

We can also see some more properties of each chart and check other charts by visiting the website below

<https://www.chartjs.org/>

In above site, we click on get started, then charts in the left panel