Chart React Libraries

SELECTION CRITERIA

When we are choosing a react library there are a some important things to considered before, and these are six of them:

1. **Popularity.**

   When we are selecting a react library we can see how popu;ar it is, this way we can observe how many people like to work with it and how friendly it is to the new users.

2. **Issues.**

   We can see some of the issues in its documentation but what is important is to decide if these issues can affect the specific product that we were working on.

3. **Documentation and Support.**

   This is related to the previous issues' point. We must be capable of appealing to the library documentation with the objective of solving some problems with the features. Beside that we should see if the library has current support or current maintenance of the library solving fixes and bugs.

4. **Customization.**

   The flexibility in the customization is a key feature in some projects for that we must decide if this will affect the result of our product.

5. **Accessibility.**

   Accessibility is a time-consuming but necessary consideration for digital product design. If a React library hasn't considered accessibility when designing components, then it's something you're going to have to do yourself, which takes us back to points 3 and 4–documentation and customization.

REACT LIBRARIES

Next, we will review some libraries according to the necessity of creating some charts for the displaying of pokemon stats.

1. **Nivo.**

   Like a lot of other React chart libraries, was developed using React and D3 and provides a variety of chart types and designs. The library provides HTML, Canvas, and SVG charts that perform well with animations and enable client and server-side rendering.

2. **React-Vis**

   Created by Uber and developed using React and D3, is one of the simplest React charting libraries to learn. If you've ever worked with React components, you'll find it easy to work with react-vis components because they operate in a similar manner, with props, children, and callbacks.

   React-Vis can create a variety of charts, such as line, bar, and pie charts. It comes with several nice, customizable charts and supports animated charts powered by React Motion. Canvas and SVG drawing functionality is also included in React-Vis.

3. **FusionCharts**

   FusionCharts is a JavaScript charting framework that allows you to build interactive JavaScript charts, gauges, maps, and dashboards. It provides bindings for FusionCharts through a simple and lightweight React component. If you're working on a large-scale production application, we recommend utilizing this library because the charts look great even on low-performance devices.

4. **Victory**

   Victory charts provide average-looking charts out of the box, but you can fine-tune the designs to your liking. It also allows for some animation freedom. Its main selling point is that it is designer-friendly and that it supports Android and iOS via a React Native version that uses the same API.

5. **Recharts**

   Recharts is a simple component-based chart toolkit that integrates well with React. Recharts has the advantage of providing really nice-looking charts right out of the box. The disadvantage is that it is tough to customize if you do not like the chart designs that are provided. This is one of the initial go-to chart libraries that most developers use, and it has been around for a long time, so it has a strong community and is well maintained.

<u>PERSONAL SELECTION</u>

The task requires the selection of three libraries, these libraries will be:

1. **Recharts**

   This Project requires simplicity over customization so this library is ideal for the implementation of charts right out of the box.

2. **Victory**

   Like the previous one, this one provides simple ready-to-apply charts with reduced customization, so this one is also ideal for his implementation.

3. **FusionCharts**

   Unlike the two before, this library allows us editing and customizing so its better for the project to consider at least one flexible option.