

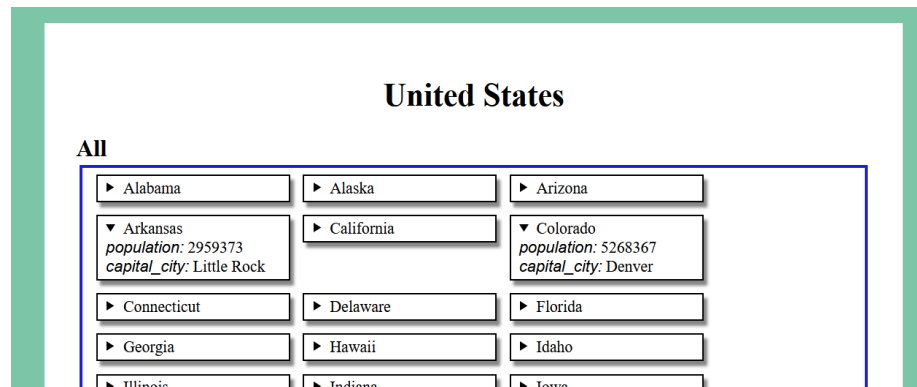
Question 1 United States Visualization (25 pts, Variant C)

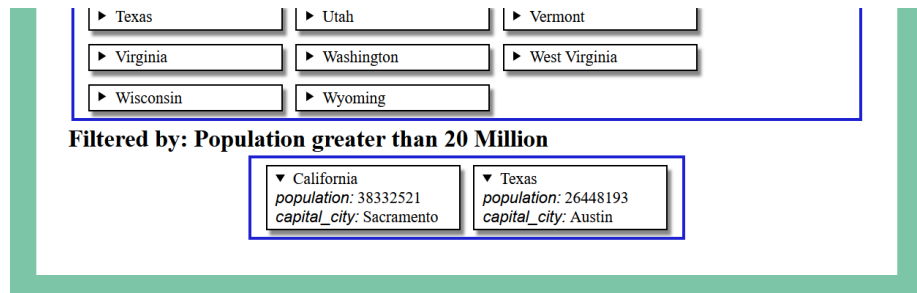
You are developing a component for a React based App to help middle school students learn about the states in the US. The `index.html`, `index.js`, and styling (`question1.css`) files have been completed for you. You just need to develop the React component specified below. *Note: No credit can be given for an App that doesn't build with the Parcel.js bundler.*

You are provided with the following files:

- An `index.html`. **This cannot be modified.**
- A `index.js` file containing the main React App. **This cannot be modified.** Your component must be compatible with this file, i.e., this file will be importing and using your component.
- A `question1.css` CSS file that contains all the CSS for the site. This **cannot** be modified.
- A `states.json` file which contains information about the states in the US. This **cannot** be modified or imported into your components. This data is passed to your component as a *prop*.

You will deliver to me one JavaScript file for a “StateViewer” React component you will create. This file must implement the functionality described below. Screenshots of the finished App are shown below.





(a) Create Compatible JavaScript File and React Functional Component (5 pts)

- Create a JavaScript file for the component compatible with that imported in the `index.js` file.
- Create the appropriately named (compatible with `index.js`) React *functional* component in this file.
- Return a `<section>` element (can be empty to start) with the `class` attribute set to `StateViewer`. You will add content to this `<section>` in the following parts.

(b) Details and Summary (5 pts)

- For each state entry in the `states` prop passed to your `StateViewer` component produce and display a `<details>` HTML element.
- Within each `<details>` add an `<summary>` element containing the name of the state. See the `state` field in the JSON objects in the `states.json` array.

(c) Data Label and Field (5 pts)

- Within the `<details>` element add paragraph elements to show the **population** and **capital_city** fields from each state.
- Add a `<label>` element into the paragraph to describe the field.
- Your results should look like the top screenshot shown above.

(d) Filtered version of the Component (10 pts)

If you look at the `index.js` file you will see that the `StateViewer` component is called twice. In the second called the `filter` attribute is set to `true`.

- When the `filter` attribute is set to `true` have your component only show items that satisfy *Population greater than 20 Million*.

This should produce a result similar to the second screenshot.