

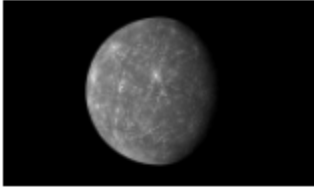
React Component Exercise:

In this Exercise you're going to practice JSX, creating and rendering components, passing down props, as well as iterating over data and more.

You are going to use React to build a Planet Card Site by breaking it up into smaller components. You must use CDN for your development.

For this lab, you are going to:

- 1- Open the project enclosed file,
- 2- Observe the app.js file
- 3- Check the instructions in the app.js
- 4- Build the React Program that renders the following image:

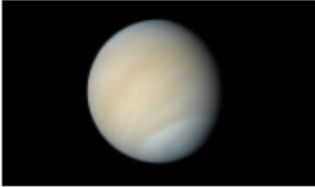


Mercury

Mercury is the closest planet to the Sun. Due to its proximity, it's not easily seen except during twilight. For every two orbits of the Sun, Mercury completes three rotations about its axis. Up until 1965 it was thought that the same side of Mercury constantly faced the Sun.

Planet Profile

- **Diameter:** 3,031.67 mi
- **Moons:** none

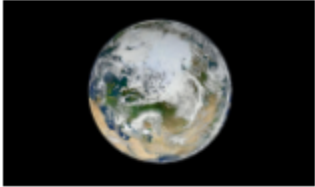


Venus

Venus is the second planet from the Sun and is the second brightest object in the night sky after the Moon. Venus is the second largest terrestrial planet and is sometimes referred to as the Earth's sister planet due to their similar size and mass.

Planet Profile

- **Diameter:** 7,521 mi
- **Moons:** none

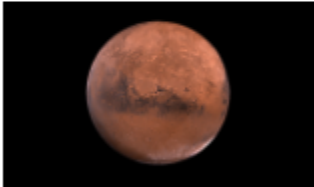


Earth

Earth is the third planet from the Sun and is the largest of the terrestrial planets. The Earth is the only planet in our solar system not to be named after a Greek or Roman deity. The Earth was formed approximately 4.54 billion years ago and is the only known planet to support life.

Planet Profile

- **Diameter:** 7,917.5 mi
- **Moons:** 1

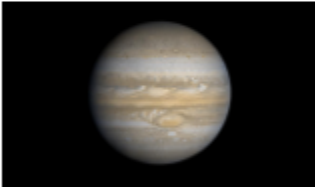


Mars

The fourth planet from the Sun and the second smallest planet in the solar system. Mars is often described as the "Red Planet" due to its reddish appearance. It's a terrestrial planet with a thin atmosphere composed primarily of carbon dioxide.

Planet Profile

- **Diameter:** 4,212 mi
- **Moons:** 2

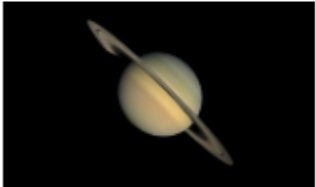


Jupiter

The planet Jupiter is the fifth planet out from the Sun, and is two and a half times more massive than all the other planets in the solar system combined. It is made primarily of gases and is therefore known as a "gas giant".

Planet Profile

- **Diameter:** 86,881.4 mi
- **Moons:** 79



Saturn

Saturn is the sixth planet from the Sun and the most distant that can be seen with the naked eye. Saturn is the second largest planet and is best known for its fabulous ring system that was first observed in 1610 by the astronomer Galileo Galilei.

Planet Profile

- **Diameter:** 72,367.4 mi
- **Moons:** 62

You need to use props and loops to build this page.

Your program should be functional and using React – 3

mark Using Props – 1 mark

Using loops – 1 mark

Adding delete function to each card - 1 mark

HTML, CSS, images and a JavaScript file for this exercise is in the folder. In index.html, links to React, and ReactDOM, and the Babel transpiler are provided at the bottom of the file.

You're going to write your React code inside the file app.js.

App.js currently contains an array of objects assigned to the constant planets. Each object has properties that describe a planet, like name, diameter, moons, description. And it has a URL property that points to an image located in the image folder. In index.html, in the comments you can see an example of the markup you'll need to use to create a planet card.

Just below the planet array in app.js, you will create two components, a Planet component that renders a planet card, and a container component, that iterates over the planet's array and renders a planet component for each object in the array.

You will need to pass the planet's data to the main container, then pass that data down to the planet card using props. You should use the commented markup in index.html as a reference for how to display the data.

The only text that should not use props is the h3 with the text, Planet Profile, and the text between the strong tags. Everything else needs to be displayed with props.

To display the planet cards, you will need to render the main container component to the DOM.

Finally, add a DELETE (or "X") Button to each card that removes the corresponding card if clicked. (1 mark)