1. Build Search filter in React

React code to build a simple search filter functionality to display a filtered list based on the search query entered by the user.

The following are the steps to create a Search filter using React JS:

1.Declare React states for search input values.

2.Create HTML input text for entering search term and update state in **onChange** function.

3.Add **Array.filter()** on list of items with search term value.

2. Create a Checklist in React

React code to display a checklist with multiple options that can select and the selected options are dynamically displayed on the screen. React State is used to keep track of checked options and **onChange()** Event handler is triggered to alter the state whenever an option is checked or unchecked.

The following are the steps to create a Checklist in React JS:

1. Create React state to track checkbox value.

2. Function to update checkbox value based on **event.target.checked**

3. Add checkbox input element to JSX code with **onChange** function.

3. Image Carousel

How you will build it

Our carousel should allow the user to click the backwards or forwards button to go to the previous or next image.

The images will be stored in a simple array. We will see how to use state in order to store the current image. Then we will update that state to go to the previous or next image, according to the button the user pressed.

If the user has gone through all of the images, you will figure out how to start at the beginning of the array, to allow them to cycle through the images again. If you don't want to use images, you could also use text to make a testimonial carousel that cycles through reviews for a given product.
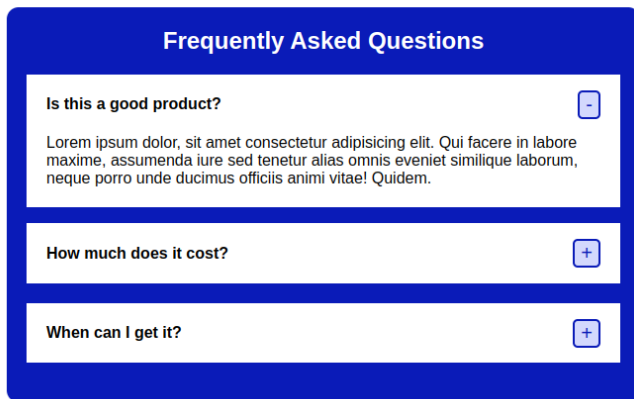
Finally, if you want to take your carousel to the next level, try adding a fun transition using CSS to animate the image as it changes.

React concepts you will learn

1. useState (storing and updating state)

2. Conditionals (ternaries)

3. Lists, keys, and .map()

4. FAQ/Accordion


```
const questions = [
{
id: 1,
title: "Is this a good product?",
info:
"Lorem ipsum dolor, sit amet consectetur adipisicing elit. Qui facere in labore maxime, assumenda iure sed tenetur alias omnis eveniet similique laborum, neque porro unde ducimus officiis animi vitae! Quidem."
},
{
id: 2,
title: "How much does it cost?",
info:
"Lorem ipsum dolor, sit amet consectetur adipisicing elit. Qui facere in labore maxime, assumenda iure sed tenetur alias omnis eveniet similique laborum, neque porro unde ducimus officiis animi vitae! Quidem."
},
{
id: 3,
title: "When can I get it?",
info:
"Lorem ipsum dolor, sit amet consectetur adipisicing elit. Qui facere in labore maxime, assumenda iure sed tenetur alias omnis eveniet similique laborum, neque porro unde ducimus officiis animi vitae! Quidem."
}
];
```

How you will build it

You will learn how to toggle state to make sure that each accordion opens and closes after each button press. You will also learn simple conditionals such as the and (&&) operator that will only show the content of the accordion when the accordion state says it is open.

Finally, we will create an entire FAQ (frequently asked questions) section by displaying multiple accordion components. To do so, we will learn how to pass each accordion's data down into the component using props.

React concepts you will learn

1. Toggling state with useState

2. Conditionals (&&)

3. Passing data to components via props

4. Displaying multiple components with `.map()`

5. Flash cards
Toggle cards css and content on click:

What language is React based on?	**Components**	What's the name of the syntax we use to describe a UI in React?
How to pass data from parent to child components?	How to give components memory?	What do we call an input element that is completely synchronised with state?