

DON'T MISS IT

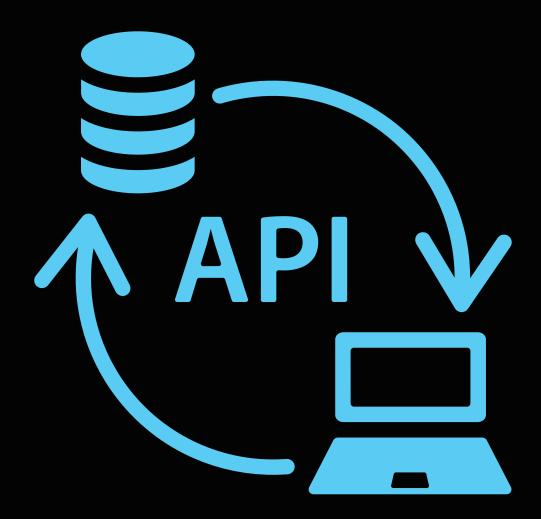
REACT CONTEXT API





Context API

- The Context API provides a way to pass data through the component tree without having to pass props down manually at every level.
- It is particularly useful for global state management, such as user authentication, themes, or settings.





Using Context API

• Start by creating a context object.

```
import React, { createContext, useState,
useContext } from 'react';
// Create a Context
const ThemeContext = createContext();
// Create a provider component
const ThemeProvider = (\{ children \}) \Rightarrow \{ \}
  const [theme, setTheme] = useState('light');
  const toggleTheme = () \Rightarrow {
    setTheme((prevTheme) ⇒ (prevTheme ===
    'light' ? 'dark' : 'light'));
  };
  return (
    <ThemeContext.Provider value={{ theme,</pre>
    toggleTheme }}>
      {children}

ThemeContext.Provider>
  );
};
export { ThemeProvider, ThemeContext };
```

Using Context API

Use the context in your components.

```
JSX
import React, { useContext } from 'react';
import { ThemeContext } from './ThemeContext';
const ThemedComponent = () \Rightarrow {
 const { theme, toggleTheme } =
   useContext(ThemeContext);
  return (
    <div style={{ background: theme ===
    'light' ? '#fff' : '#333', color: theme 	≡
    'light' ? '#000' : '#fff', padding: '20px' }}>
      <h1>The current theme is {theme}</h1>
      <button onClick={toggleTheme}>Toggle Theme
    </div>
  );
};
export default ThemedComponent;
```



Using Context API

 Ensure your components have access to the context by wrapping your app with the provider.



How It Works

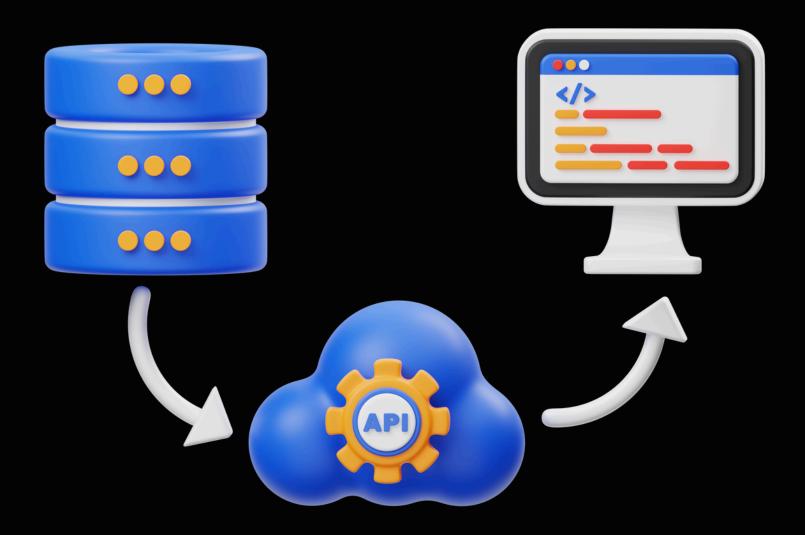
- We create a ThemeContext using createContext and a ThemeProvider component that provides the context value to its children.
- The ThemeProvider component manages the theme state and provides a toggleTheme function to toggle between light and dark themes.
 - The ThemeProvider component wraps its children with the ThemeContext.





How It Works

- Provider and passes the current theme and toggleTheme function as the context value.
- The ThemedComponent component uses the useContext hook to consume the context value and access the theme and toggleTheme function.





Benefits of the Context API

- No need to pass props through intermediate components.
- Easily manage global state in a centralized way.
- Context values can be consumed by any component, making your application more modular and reusable.





DID YOU FIND IT HELPFUL?









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