



How to use Redux in ReactJS with real-life examples?

We are going to use Redux to make the above React image stop or start rotating.

Redux:

What Redux does in a very general sense, is that it creates a global state for the whole application, that can be accessed by any of your component

It is a state management library

You have only one state for your whole app, and not states for each of your components

React Redux:

This is used so we can access Redux's data and modify it by sending actions to Redux — actually not Redux, but we'll get there

The official docs state: It lets your React components read data from a Redux store, and dispatch actions to the store to update data

When working with Redux, you will need three main things:

actions: these are objects that should have two properties, one describing the type of action, and one describing what should be changed in the app state.

reducers: these are functions that implement the behavior of the actions. They change the state of the app, based on the action description and the state change description.

store: it brings the actions and reducers together, holding and changing the state for the whole app — there is only one store.

We need to connect our component to our redux store so we import connect from react-redux.

To change the redux store state we'll need the actions.

This will be done using the connect function, which accepts two parameters:

mapStateToProps: this is used to retrieve the store state.

mapDispatchToProps: this is used to retrieve the actions and dispatch them to the store.

Provider:

Provider: makes the Redux store available to any nested components that have been wrapped in the connect function

After this, instead of rendering our App component directly, we render it through our Provider using the store that we've created like so: