

Pre-rolled Redux Lab

Later in the course, we're going to really get into Redux where we'll learn to manage complex data. But until then, it would be nice for our React app to work with some robust data. So let's just copy some pre-written Redux code to load and manage that data.

Install Redux

1. Open a command window and cd to your "client" project. Install Redux.
`npm install @reduxjs/toolkit react-redux`

Copy the prebuilt Redux files

2. Look in the starters folder. Notice that there's a folder in there called 'store'. This is a pre-built Redux store.
3. Copy all of starters/store to your project under src. Something like this might work:
`cp myProject/starters/store myProject/client/src`
(Hint: don't actually execute that command. It is just trying to tell you to copy the entire store folder to your src folder under your project.)

Wiring them up with react-redux and hooks

Finally, let's make them work. We're going to use a technique that will become much more clear toward the end of the React class. But how cool that you get to a preview of React hooks, right?

4. Open index.js and add these lines to the top of the file:

```
import { Provider } from 'react-redux';  
import { store } from './store/store';
```

5. Below that, find where we're rendering the <App />. Wrap the <App /> like this:

```
<Provider store={store}><App /></Provider>
```

6. Open App.js and import useSelector and useDispatch from react-redux. And while you're there, import useEffect and useState from React.

```
import { useEffect, useState } from 'react';  
import { useSelector, useDispatch } from 'react-redux';  
import { actions } from './store/actions';
```

7. Inside the App function at the top, add these lines.

```
const state = useSelector(state => state);  
const dispatch = useDispatch();  
useEffect(() => {  
  dispatch(actions.fetchInitialData());  
}, []);
```

8. Run and test. You won't see anything different rendered on the page but if you console.log(state), you should be seeing lots of wonderful data about theaters and films and showings.

I know that's a lot of unfamiliar code to take in, but some of it will become clearer later in the course and other parts are beyond the scope of the course (so don't sweat it). In a nutshell, this useEffect line says "The first time this app is rendered, use the fetchInitialData middleware to fetch the initial data."