

Advanced React with Redux



Eve Porcello

eve@moonhighway.com

[linkedin.com/in/eveporcello](https://www.linkedin.com/in/eveporcello)

@eveporcello

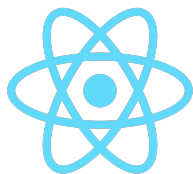
Getting the Files

- Course files are hosted on GitHub.
- Files

www.github.com/eveporcello/react-flux-redux

```
$ git clone https://github.com/Moonhighway/react-flux-redux.git
```

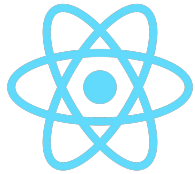




Webpack

Module Lessons:

- What is Webpack
- What is a loader
- Incorporating Babel
- Other Webpack capabilities

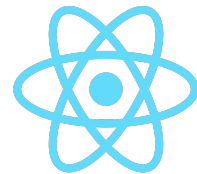


Webpack

- Webpack is a module bundler often used with React.
- Performs actions including Babel transpiling, SASS to CSS compiling, minification, etc.

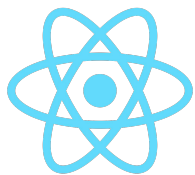
Bulletin Board Activity

Webpack Setup



- Setting up a webpack build for the bulletin board.
- Webpack config file
- Working with npm



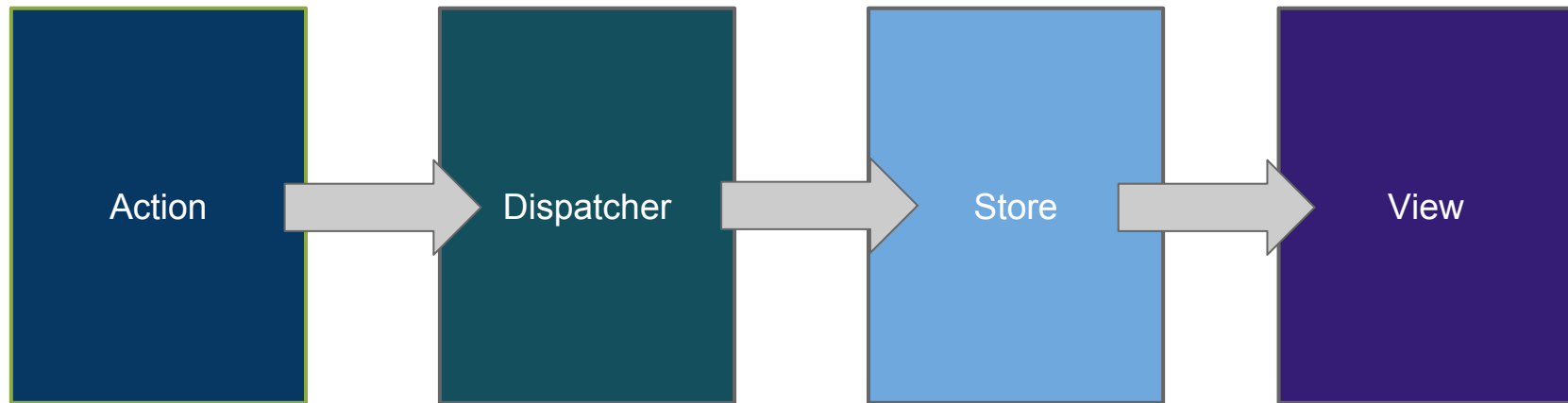


Flux

Module Lessons:

- What is Flux
- What are the features of pure flux?
- What are some Flux frameworks?

Flux Design

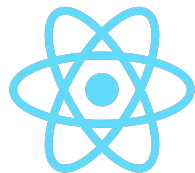


Flux Frameworks

- Redux
- Flummox
- Fluxxor

Flux

Summary



- Flux is a design that is often used with React.
- Using Flux is not required to work with React.
- Redux is a popular implementation of a flux design.
- With Redux, actions are defined, and these send state information to the application.

What is Redux

- A state container for JavaScript
- Often used with React
- Not always used with React



Redux

Three Principles of Redux

- Single Source of Truth
- State is read-only
- Changes are made with pure functions



Redux

Actions

- Objects that change the state

```
{ type: C.REMOVE_COLOR, id }
```



Redux

Action Creators

- Functions that return actions

```
const removeColor = id => {  
  return { type: C.REMOVE_COLOR, id }  
};
```



Redux

Reducers

- Pure functions that take in state and the action and return a new state

```
(previousState, action) => newState
```



Redux

The Store

- Holds application state
- Allows access to state via `getState()`;
- Allows state to be updated via `dispatch(action)`;
- Registers listeners via `subscribe(listener)`;
- Handles unregistering of listeners via the function returned by `subscribe(listener)`.

Getting the Files

- Course files are hosted on GitHub.
- Files

www.github.com/eveporcello/react-flux-redux

```
$ git clone https://github.com/Moonhighway/react-flux-redux.git
```

