

Unit 7: Store, Data flow

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\(listener\)`](#).

It's important to note that you'll only have a single store in a Redux application. When you want to split your data handling logic, you'll use [`reducer composition`](#) instead of many stores.

```
import { createStore } from 'redux'
```

```
import todoApp from './reducers'
```

```
let store = createStore(todoApp)
```

Dispatching actions
(eg in the code sample)

Data Flow

Redux architecture revolves around a strict unidirectional data flow. The data lifecycle in any Redux app follows these 4 steps:

1. You call `store.dispatch(action)`.

An [action](#) is a plain object describing *what happened*. For example:

```
{ type: 'LIKE_ARTICLE', articleId: 42 }
```

```
{ type: 'FETCH_USER_SUCCESS', response: { id: 3, name: 'Mary' } }
```

```
{ type: 'ADD_TODO', text: 'Read the Redux docs.' }
```

Data Flow

2. The Redux store calls the reducer function you gave it.

The [store](#) will pass two arguments to the [reducer](#): the current state tree and the action. For example, in the todo app, the root reducer might receive something like this:

Data Flow

```
let previousState = {  
  visibleTodoFilter: 'SHOW_ALL',  
  todos: [  
    {  
      text: 'Read the docs.',  
      complete: false  
    }  
  ]  
}  
  
let action = {  
  type: 'ADD_TODO',  
  text: 'Understand the flow.'  
}  
  
// Your reducer returns the next application state  
let nextState = todoApp(previousState, action)
```

Data Flow

3. The stage changes lead to changes in React components