# REDUX

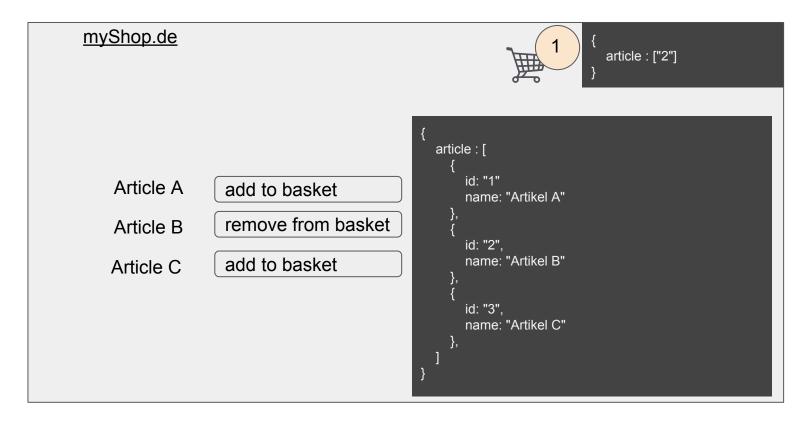
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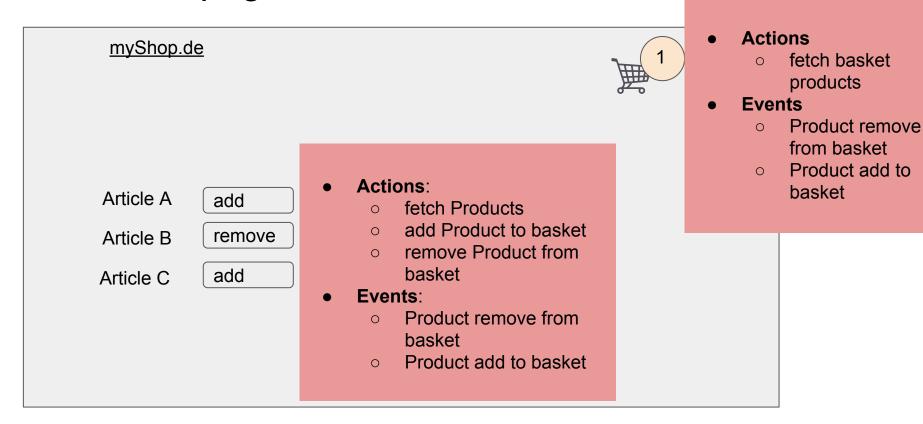
Manage the state in your Application

in one tree

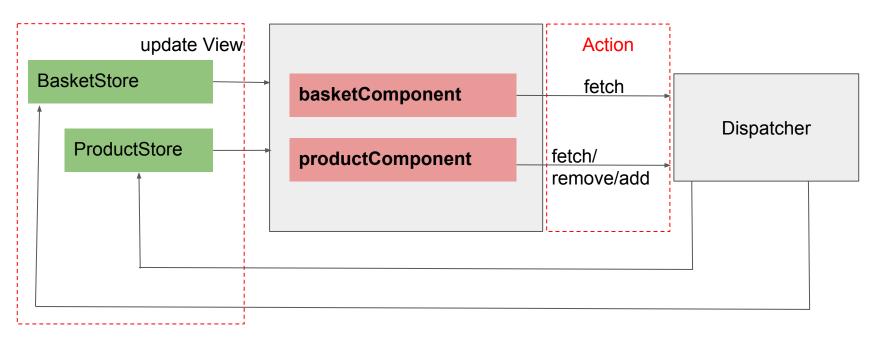
# State in your App



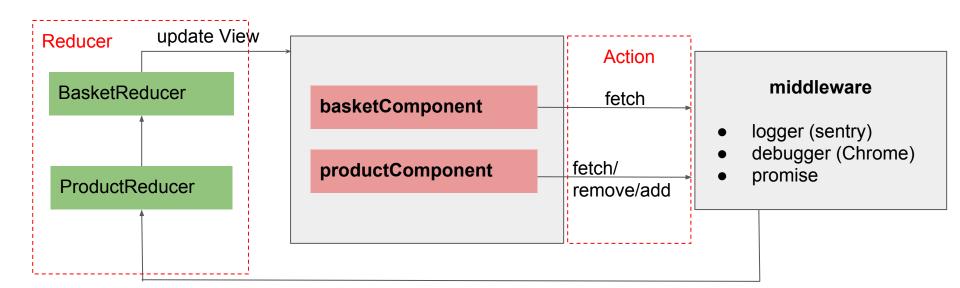
#### Events on page



#### Flux



#### Redux



# Immutable

## primitive variables

```
var x = '1',
    y = x;
    x = '2';
console.log(x === y);
```

False

### none primitive variables

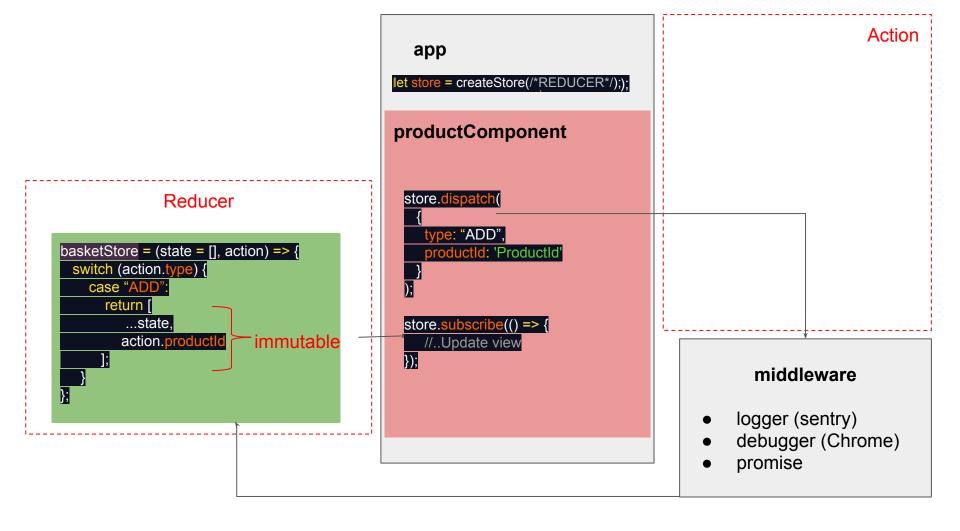
```
var x = { a:'1'},
    y = x;
    x.a ='3';
console.log(x === y);
```

#### True

#### create new instance

```
var x = {a:'1'},
    y = x;
    x = Object.assign({},x,{a:'2'});
console.log(x === y);
```

#### False



## Goals

- simply debugging with redux DevTools
- undo/redo
- state is immutable
- one place for Application state
- app state consists of one root tree, with x child nodes

# LINKS

- Redux Docs
  - http://redux.js.org/
- Demo
  - https://github.com/gernsdorfer/redux
- immutable
  - vanilla Javascript (<a href="http://vincent.billey.me/pure-javascript-immutable-array">http://vincent.billey.me/pure-javascript-immutable-array</a>)
  - Immutable-js (<u>https://facebook.github.io/immutable-js/</u>)
- Redux Browser Extensions
  - Chrome(
    <a href="https://chrome.google.com/webstore/detail/redux-devtools/lmhkpmbekcpmknklioeibfkpmmf">https://chrome.google.com/webstore/detail/redux-devtools/lmhkpmbekcpmknklioeibfkpmmf</a>
    <a href="mailto:ibljd">ibljd</a>)
  - Firefox (<u>https://addons.mozilla.org/de/firefox/addon/remotedev/?src=cb-dl-recentlyadded</u>)
- Redux in Frameworks
  - react (<u>https://github.com/reactjs/react-redux</u>)
  - o angular 1 (<a href="https://github.com/angular-redux/ng-redux">https://github.com/angular-redux/ng-redux</a>)
  - angular 2 (<u>https://github.com/angular-redux/ng2-redux</u>)
- Redux Observable
  - https://github.com/redux-observable/redux-observable