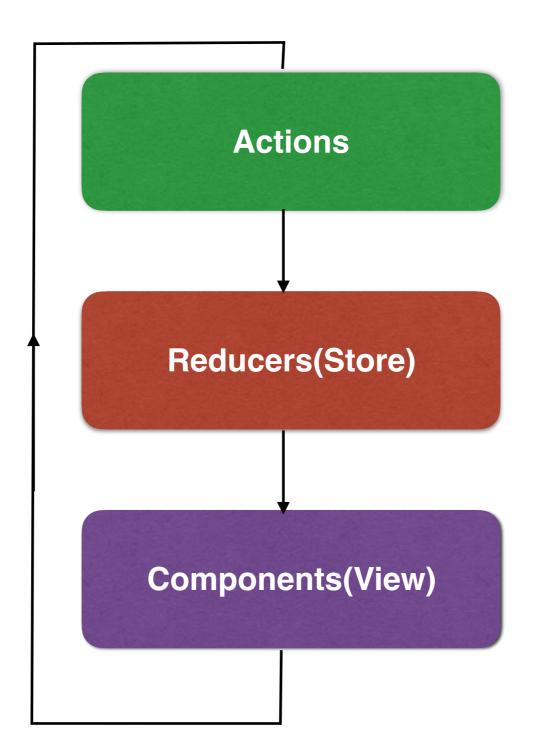
Testing Single Page Application

Why Test

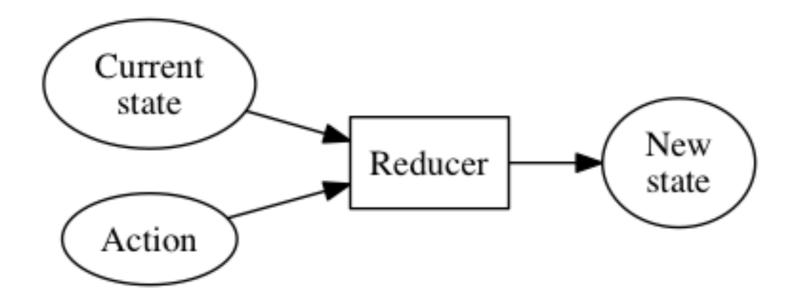
- Easier to start developing
- Code Quality
- Minimise code regression
- Confidence in product



Redux

export function clearAll() {
 return { type: 'CLEAR_ALL' };
}

case 'CLEAR_QUEUE': {
 return Object.assign({}, state, { queue: {} });
}



React

import React from 'react';

```
import 'bootstrap-webpack!bootstrap-webpack/bootstrap.config.js';
import { Button, ButtonToolbar } from 'react-bootstrap';
import './style.css';
 export default class DefaultInput extends React.Component {
 constructor(props) {
   super(props);
    this.cancel = this.cancel.bind(this);
 }.
 cancel() {
    this.props.onCancel();
  3
  render() {
    return (
     <div>
        <div className="popinput-input-busy">
        </div>
        <ButtonToolbar className="editable-buttons">
          <Button bsStyle="default" className="btn-sm" onClick={this.cancel}>
            <i className="glyphicon glyphicon-remove" />
          </Button>
        </ButtonToolbar>
      </div>
     );
  }
DefaultInput.defaultProps = {
 onCancel: undefined,
};
```

Actions

export function clearAll() {
 return { type: 'CLEAR_ALL' };
}

```
describe('queue actions', () => {
    it('should create an action to clear queue', () => {
        const expectedAction = {
            type: 'CLEAR_ALL',
            }
        expect(clearAll()).toEqual(expectedAction)
        })
})
```

Reducers

```
case 'CLEAR_QUEUE': {
   return Object.assign({}, state, { queue: {} });
}
```

```
it('should handle CLEAR_QUEUE', () => {
    expect(
      reducer(
        ł
          queue: {1: "dadas", 2: "adsad"},
          current: { node: null, running: false },
          searchString: '',
          queueStatus: QUEUE_STOPPED,
          showResumeQueueDialog: false,
          visibleList: 'current'
      }, {
        type: 'CLEAR_QUEUE',
      })
    ).toEqual(
      ł
          queue: {},
          current: { node: null, running: false },
          searchString: '',
          queueStatus: QUEUE_STOPPED,
          showResumeQueueDialog: false,
          visibleList: 'current'
      }
    })
})
```

Components

```
import React from 'react'
import { shallow } from 'enzyme'
import TaskItem from '../mxcube3/ui/SampleQueue/TaskItem'
function setup() {
  const props = {
    changeSample: jest.fn()
    sampleName: 'TestSample'
  }
  const enzymeWrapper = shallow(<TaskItem {...props} />)
  return {
    props,
    enzymeWrapper
}
describe('components', () => {
  describe('TaskItem', () => {
 it('should render taskItem with correct props', () => {
 const { enzymeWrapper } = setup()
      expect(enzymeWrapper.find('node-name').hasValue('TestSample'))
 })
 })
})
```

Are we safe?

