Jest is based on Jasmine

Runs your test on a fake DOM

Support for jsx

npm install –save-dev jest-cli babel-jest

create \_\_test\_\_ and test classes should be placed there

create .babelrc and update the contents

{

“presets”: [“es2015”,”react”]

}

**Sample Package.json**

{

"name": "bootstrapreact",

"version": "1.0.0",

"description": "",

"main": "index.js",

"babel": {

"presets": [

"es2015",

"react"

]

},

"scripts": {

"start": "webpack-dev-server -d",

"test": "jest"

},

"author": "",

"license": "ISC",

"devDependencies": {

"babel-core": "^6.26.0",

"babel-jest": "^21.2.0",

"babel-loader": "^6.2.4",

"babel-polyfill": "^6.9.1",

"babel-preset-es2015": "^6.9.0",

"babel-preset-react": "^6.11.1",

"jest-cli": "^21.1.0",

"react-test-renderer": "^15.6.1",

"strip-loader": "^0.1.2",

"webpack": "^1.13.1",

"webpack-dev-server": "^1.14.1"

},

"dependencies": {

"flux": "^3.1.3",

"react": "^15.6.1",

"react-dom": "^15.6.1",

"react-redux": "^5.0.6",

"react-router": "^3.0.2",

"redux": "^3.7.2",

"redux-thunk": "^2.2.0",

"whatwg-fetch": "^2.0.3"

}

}

create a simple sum.js

let sum = (value1, value2) =>

(  value1 + value2)

export default sum;

sum.test.js

jest.autoMockOff();

import sum from '../sum'

describe('sum', function() {

it('adds 1 + 2 to equal 3',

function() {

  expect(sum(1, 2)).toBe(3);

});

});

Copy the checkbox with label component

CheckBoxWithLabel

import React, {Component} from 'react';

class CheckboxWithLabel extends Component {

constructor() {

super(...arguments);

this.state = {isChecked: false};

this.onChange = this.onChange.bind(this);

}

onChange() {

this.setState({isChecked: !this.state.isChecked});

}

render() {

return (

<label>

<input type="checkbox"

checked={this.state.isChecked}

onChange={this.onChange} />

{this.state.isChecked ? this.props.labelOn : this.props.labelOff}

</label>

);

}

}

export default CheckboxWithLabel;

jest.autoMockOff();

import React from 'react';

import ReactDOM from 'react-dom';

import ReactTestUtils from 'react-dom/test-utils';

import ShallowRender from 'react-test-renderer/shallow';

import CheckboxWithLabel from '../components/CheckboxWithLabel';

const shallowRenderer = new ShallowRender();

describe('CheckboxWithLabel', () => {

// Render a checkbox with label in the document

var checkbox = ReactTestUtils.renderIntoDocument(

<CheckboxWithLabel labelOn="On" labelOff="Off" />);

var checkboxNode = ReactDOM.findDOMNode(checkbox);

it('defaults to Off label', () => {

// Verify that it's Off by default

expect(checkboxNode.textContent).toEqual('Off');

});

it('defaults to unchecked', () => {

// Verify that the checkbox input

// field isn't checked by default

let checkboxElement =

ReactTestUtils.findRenderedDOMComponentWithTag(checkbox, 'input');

expect(checkboxElement.checked).toBe(false);

});

it('changes the label after click', () => {

// Simulate a click and verify that it is now On

ReactTestUtils.Simulate.change(

ReactTestUtils.findRenderedDOMComponentWithTag(checkbox, 'input')

);

expect(checkboxNode.textContent).toEqual('On');

});

shallowRenderer.render(<CheckboxWithLabel labelOn="On" labelOff="Off" />);

const shallowCheckbox = shallowRenderer.getRenderOutput();

console.log(shallowCheckbox);

it('defaults to unchecked and Off label', () => {

// Verify that it's Off by default

const inputField = shallowCheckbox.props.children[0];

const textNode = shallowCheckbox.props.children[1];

expect(inputField.props.checked).toBe(false);

expect(textNode).toEqual('Off');

});

});

**Source Map**

Add –d in the option like this

"scripts": {

"start": "webpack-dev-server -d",

"test": "jest"

}

you can see the source files and debugger