

Jasmine: Jasmine is a behavior-driven development framework in order to test JavaScript code, you can find more information on Jasmine at: https://jasmine.github.io

- Karma: Karma is a test runner we use for running our unit test while developing; you can find more information on Karma at: http://karma-runner.github.io
- Protractor: Protractor is an end-to-end testing framework for Angular applications. You can find more information on Protractor at: http://protractortest.org



intro config plus dev about v1.0

On the AngularJS team, we rely on testing and we always seek better tools to make our life easier. That's why we created Karma - a test runner that fits all our needs.

🖴 npm install karma



Jasmine

GET STARTED

DOCS

SUPPORT

RELEASES

GITHUB

FAST

Low overhead, no external dependencies.

BATTERIES INCLUDED

Comes out of the box with everything you need to test your code.

NODE AND BROWSER

Run your browser tests and Node.js tests with the same framework.





Protractor is an end-to-end test framework for Angular and AngularJS applications. Protractor runs tests against your application running in a real browser, interacting with it as a user would.

Test Like a User

Protractor is built on top of WebDriverJS, which uses native events and browserspecific drivers to interact with your application as a user would.

For Angular Apps

Protractor supports Angular-specific locator strategies, which allows you to test Angularspecific elements without any setup effort on your part.

Automatic Waiting

You no longer need to add waits and sleeps to your test. Protractor can automatically execute the next step in your test the moment the webpage finishes pending tasks, so you don't have to worry about waiting for your test and webpage to sync.

Setun



describe() : The describe function is a global
Jasmine function. It is used for grouping similar kinds
of tests/specs together in a suite. The describe
functions can be nested. The syntax is as follows:

it(): It is a Jasmine function used for writing the actual unit tests. The syntax is as follows:

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Matchers: Matchers are the built-in Jasmine functions used along with the expect() function to compare the actual value with the expected value. Here are the matcher functions provided by Jasmine:

- toBe()
- toEqual()
- toMatch()
- toBeDefined()
- toBeUndefined()
- toBeNull()
- toBeNaN()
- toBeTruthy()

- expect(): It is an another Jasmine function that takes a value named actual value, and it is used along with matcher functions to assert the expected value.
- beforeEach() : beforeEach() is a Jasmine
 built-in function that runs the code inside it before
 every test in the describe() function.
- in function that runs the code inside it after every test in the describe() function.
- beforeAll() : beforeAll() is a Jasmine builtin function that runs the code inside it only once
 before all the tests in the describe() function.
- function that runs the code inside it only once after

Test Unitario

SÓLO LÓGICA

- Isolated unit tests
- Integrated unit tests

MODULOS, TEMPLATES...

package.json

karma.conf

```
module.exports = function (config) {
      var appSrcBase = 'src/';
   var appAssets = '/base/app/';
             config.set({
             basePath: ",
      frameworks: ['jasmine'],
              plugins: [
       require('karma-jasmine'),
  require('karma-chrome-launcher')
               client: {
       builtPaths: [appSrcBase]
               files: [],
              proxies: {},
             exclude: [],
          preprocessors: {},
       reporters: ['progress'],
              port: 9876,
             colors: true,
     logLevel: config.LOG_INFO,
           autoWatch: true,
        browsers: ['Chrome'],
           singleRun: false,
        concurrency: Infinity
                 });
```

Implementación del test

product-list.component.spec.ts

```
describe('my first unit test', () => {
it('true is true', () => expect(true).toBe(true));
     });
```

npm run test:once

```
04 2017 23:58:03.824:INFO [karma]: Karma v1.5.0 server started at http://0.0.0.0:9876/
04 2017 23:58:03.825:INFO [launcher]: Launching browser Chrome with unlimited concurrency
04 2017 23:58:03.836:INFO [launcher]: Starting browser Chrome
04 2017 23:58:04.582:INFO [Chrome 57.0.2987 (Mac OS X 10.12.4)]: Connected on socket kyD5x8aIlwE9XW82AAAA with id 9603609:
04 2017 23:58:04.797:WARN [web-server]: 404: /base/src/systemjs.config.extras.js
rome 57.0.2987 (Mac OS X 10.12.4): Executed 1 of 1 SUCCESS (0.005 secs / 0.002 secs)
```

npm run test



test

Filipe Silva edited this page 8 hours ago · 10 revisions

ng test

Overview

ng test compiles the application into an output directory

Running unit tests

ng test

Tests will execute after a build is executed via Karma, and it will automatically watch your files for changes. You can run tests a single time via --watch=false or --single-run.

You can run tests with coverage via --code-coverage. The coverage report will be in the coverage/ directory.

Options

