Getting started unit-testing Angular

Testing is a good approach to keep code maintainable, understandable, debug-able, and bug-free A good test suite can help us find problems before they rise up in production and at scale. It can make our software more reliable, more fun, and help us sleep better at right.

There are several schools of thought about how to test and when to test. As this snippet is more about getting us to the tests, we'll only briefly look at the different options. In testing, we can either

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 WIT.

We generally follow the following pattern when choosing a testing style: while we're at protolyping phase (or) sat start, we generally work with WET testing as we don't always these a solding of the valve working with A-Stotlands, or start is agreedly work and the start is agreedly well as the special protocol and the start is grown, we well the our further our further with the car't functionally strongly testing.

Getting started Enough chit-chat, let's test!

If we're not using the yeanon, i.e generator, we'll need to install karma for development puposes Installing korms can by done using the rpm tool, which is a package manager for node and comes built-in:

```
If we're using the yeonon generator with our apps, this is already set up for us.
```

Kormo works by isunching a browser, loading our app or a derivative of our source files and nurning tests that we write against our source code. In order to use karma, we'll need to tell the framework about our files and all the various requirements.

To kick it off, we'll use the kormo init command which will generate the initial template that we'll use to build our tests:

```
It will ask us a series of questions and when it's done, it will create a configuration file. Personally, we usually go through and arrower yes to as many which are solved (except without Require.JS). We like to fill in the files: section manually (see below).
```

When it's done, it will create a file in the same directory where we ran the generator that looks similar to the following:

```
// Karme configuration
module.exports - fidentime(config) {
config.set()
// bose path, that will be used to resolve files and exclude
bossPuth: ",
                                      ....www.dis: ['jossim's]. we (jossims/mocha/gunit/...
//isis of files / potterns to load in the browser
files: [
'app/components/orgular/mgular_js',
'app/components/orgular-mcks/orgular-mccks.js',
'app/components/orgular-mcks/orgular-mccks.js',
'isis/logsc'**/*,js',
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'
                                             // testing framework to use (jasmine/mocha/qunit/...) frameworks: ['jasmine'],
                                             // list of files / patterns to exc
exclude: [],
                                      // web server port
port: 8000,
                                             // level of logging
// possible volume: LOG_DESABLE || LOG_ERROR || LOG_BASN || LOG_INFO || LOG_DEBUG
logiavel: config.LOG_DEFO,
                                Legistric comfg LDC_DMD,

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// Continuous Integration mode
// if true, it copture browsers, run tests and exit
single-fun: false
D:
]:
```

This korno.conf. js. file describes a simple unit test that kama will load when we start writing tests. We can also sell it to build an afte, or end-to-end best that is specifically intended for building black-box style testing, but that's for another snippet/article.

```
Note that we need to have angular-mocks.js and our angular code available to reference inside the korma.conf.js file.
```

Now that we have our kormo.conf.js file generated, we can kick off karma by issuing the following command:

```
$ karma start karma.conf.is
```

If we haven't run it before, it's likely going to fail or at least report errors of files not being found. Let's start writing our first test.

```
anguler.module('mystep', [])
.controller('MainCentroller', ffmmttime($scope) {
    scope.name = "Art";
    scope.scylello = ffmettime() {
        scope.greeting = "Nello" + $scope.name;
    }
}
```

First, let's create the actual test file in test/spec/controllers/main. js . Since karms works well with Jasmine, we'll be using the Jasmine framework as the basis for our tests.

```
For information on Jasmine, check out their fantastic documentation at 
http://jasmine.github.io/2.0/introduction.html 
http://jasmine.github.io/2.0/introduction.html.
```

```
describe('Unit: MoinController', ffmettied() {
    // Our tests mill go here
})
```

```
describe('Unit: MoinController', ffantite() {
    // Lood the module with MainController
    beforeEach(module('myMpp'));
})
```

```
describe('Unit: MoinController', 'fimetime() {
    // Lood the module mith MainController
    beforeEach(module('mylop'));
```

Writing a test

Now that everything is all set up and ready for feeling, let's write one. It's always a good idea to least surctionality of code that we write. Anyteme that uniclaines can be manipulated by the user or write numming any code into a term's a set for it.

In this case, we won't need to lest settling the name to "An" as we know that will work (it's JaveScript, What we would like to know, however is that the seyHello() function works as-expected.

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