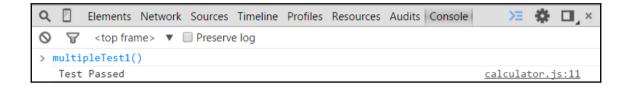
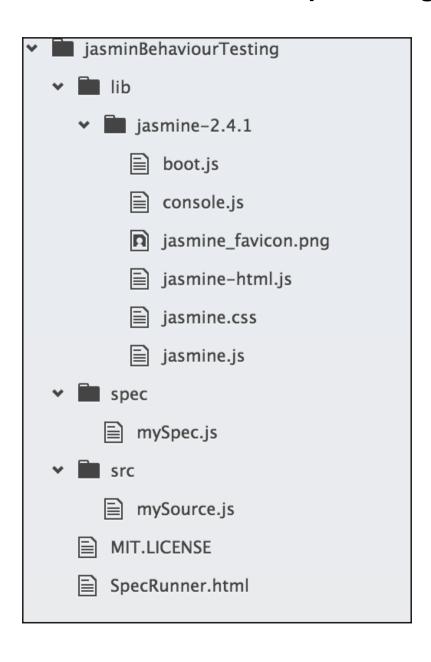
# **Chapter 1: Introduction to Test-Driven Development**





#### **Chapter 2: Details of JavaScript Testing**





 $\bullet$ 

#### 3 specs, 0 failures

A sample test suite to test jasmine assertion tracks that the spy was called should not affect other functions when called returns the requested value

- angular2-unit-testing
  - app
  - node\_modules
  - ✓ src
    - my.spec.ts
    - tsconfig.json
    - unit-tests.html
  - > in typings
    - jsconfig.json
    - package.json
    - typings.json

#### 2 specs, 0 failures

finished in 0.002s

#### 1st tests:

true is true null is not the same thing as undefined

#### **Chapter 3: The Karma Way**

```
which testing framework do you want to use ?
Press tab to list possible options. Enter to move to the next question.
> jasmine

Do you want to use Require.js ?
This will add Require.js plugin.
Press tab to list possible options. Enter to move to the next question.
> no

Do you want to capture a browser automatically ?
Press tab to list possible options. Enter empty string to move to the next quest ion.
> Chrome
>
What is the location of your source and test files ?
You can use glob patterns, eg. "js/*.js" or "test/**/*Spec.js".
Enter empty string to move to the next question.
>
Should any of the files included by the previous patterns be excluded ?
You can use glob patterns, eg. "**/*.swp".
Enter empty string to move to the next question.
>
Do you want Karma to watch all the files and run the tests on change ?
Press tab to list possible options.
> yes
```

#### Karma v0.13.22 - connected

Chrome 49.0.2623 (Mac OS X 10.10.5) is idle

angular2\_karma git. 🖿 арр e2e .editorconfig .gitignore .travis.yml CHANGELOG.md favicon.ico index.html karma-test-shim.js karma.conf.js **LICENSE** package.json protractor.config.js README.md styles.css systemjs.config.extras.js systemjs.config.js tsconfig.json tslint.json



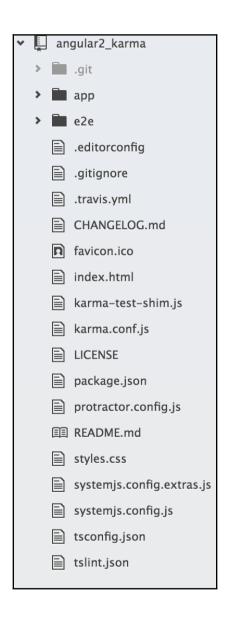
# Hello Angular

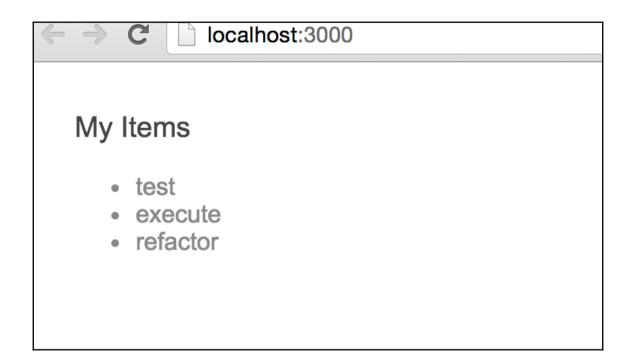
```
> karma start karma.conf.js

module.js:328
    throw err;
    ^

Error: Cannot find module 'jasmine-core'
    at Function.Module._resolveFilename (module.js:326:15)
    at Function.require.resolve (internal/module.js:16:19)
```

# **Chapter 4: End-to-End Testing with Protractor**





#### **Chapter 5: Protractor, a Step Ahead**





#### My Items

- test
- execute
- refactor

```
Mds-MacBook-Pro-2:angular2-protractor jquerygeek$ npm run e2e
> angular2-protractor@1.0.0 e2e /Users/jquerygeek/Documents/angular 2
> protractor

Using ChromeDriver directly...
[launcher] Running 1 instances of WebDriver
Started
....

4 specs, 0 failures
Finished in 3.593 seconds
[launcher] 0 instance(s) of WebDriver still running
[launcher] chrome #01 passed
```

```
[07:19:47] I/protractor - Encountered browser.pause(). Attaching debugger...
Starting debugger agent.
Debugger listening on [::]:5858
ControlFlow::520
| TaskOueue::185
 | (pending) Task::187<then>
| | | (pending) Task::464<Run it("Test spec for debug and play") in control flow>
| | | | | (blocked) Task::473<<anonymous>>
     | | | Task::477<then>
     | Task::483<then>
      | | Task::485<catch>
      | Task::487<Protractor.waitForAngular() - Locator: By(css selector, *[id="my_id"])>
          | Task: Protractor.waitForAngular() - Locator: By(css selector, *[id="my_id"])
```

```
- Next command: executeAsyncScript
ControlFlow::520
| TaskQueue::185
 | (pending) Task::187<then>
   | TaskQueue::462
 | | (pending) Task::464<Run it("Test spec for debug and play") in control flow>
       | TaskQueue::467
       | | (pending) Task::487<Protractor.waitForAngular() - Locator: By(css selector, *[id="my_id"])>
       | | | | (active) TaskQueue::604
         | | | Task::603<then>
          Task::489<then>
          Task::491<then>
         | Task::493<then>
       | | Task::495<then>
       | | Task::497<then>
       | | Task::499<then>
          Task::502<then>
       | | Task::504<then>
    Task::466<then>
```

```
ControlFlow::520
 TaskOueue::185
   (pending) Task::187<then>
     TaskQueue::462
       (pending) Task::464<Run it("Test spec for debug and play") i control flow>
         TaskOueue::467
           (pending) Task::493<then>
             TaskQueue::669
               (pending) Task::678<WebDriver.findElements(By(css selector, *[id="my_id"]))>
               | TaskOueue::689
               | | (pending) Task::691<then>
                 | | (active) TaskQueue::694
               | | Task::693<then>
            | | Task::680<catch>
           Task::495<then>
           Task::497<then>
           Task::499<then>
           Task::502<then>
         | Task::504<then>
       Task::466<then>
```

```
Failures:

1) AppComponent Tests Test spec for debug and play

Message:

Failed: No element found using locator: By(css selector, *[id="my_id"])

Stack:

NoSuchElementError: No element found using locator: By(css selector, *[id="my_id"])

at WebDriverError (/usr/local/lib/node_modules/protractor/node_modules/selenium-webdriver/lib/error.js:27:5)

at NoSuchElementError (/usr/local/lib/node_modules/protractor/node_modules/selenium-webdriver/lib/error.js:242:5)

at /usr/local/lib/node_modules/protractor/built/element.js:719:27

at ManagedPromise.invokeCallback (/usr/local/lib/node_modules/protractor/node_modules/selenium-webdriver/lib/promise.js:1379:14)

at TaskQueue.execute(/usr/local/lib/node_modules/protractor/node_modules/selenium-webdriver/lib/promise.js:2913:14)

at TaskQueue.executeNext (/usr/local/lib/node_modules/protractor/node_modules/selenium-webdriver/lib/promise.js:2896:21)

at asyncRun (/usr/local/lib/node_modules/protractor/node_modules/selenium-webdriver/lib/promise.js:2775:27)

at /usr/local/lib/node_modules/protractor/node_modules/selenium-webdriver/lib/promise.js:2775:27)

at /usr/local/lib/node_modules/protractor/node_modules/selenium-webdriver/lib/promise.js:639:7

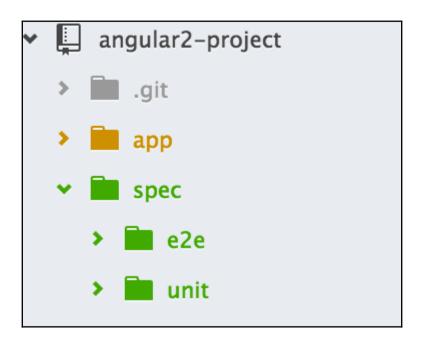
at noness, tickDomainCallback (internal/procress/next tick.js:1729:7)From
```

```
[08:50:42] I/direct - Using ChromeDriver directly...
[08:50:42] I/launcher - Running 1 instances of WebDriver
Starting debugger agent.
Debugger listening on [::]:5858
connecting to localhost:5858 ... ok
C
Started
break in /usr/local/lib/node modules/protractor/built/browser.js:664
             this.driver.executeScript(clientSideScripts.installInBrowser):
662
663
             webdriver.promise.controlFlow().execute(function () {
>664
                 debugger:
             }, 'add breakpoint to control flow');
665
 666
         }:
```

#### **Chapter 6: The First Step**

Submit
Comment 1
Comment 2
Like 1
Comment 3
Like 2

<b>~</b>		an	gular2_project
	>		.git
	>		арр
	>		e2e
			.editorconfig
			.gitignore
			.travis.yml
			CHANGELOG.md
		n	favicon.ico
			index.html
			karma-test-shim.js
			karma.conf.js
			LICENSE
			package.json
			protractor.config.js
			README.md
			styles.css
			systemjs.config.extras.js
			systemjs.config.js
			tsconfig.json
			tslint.json

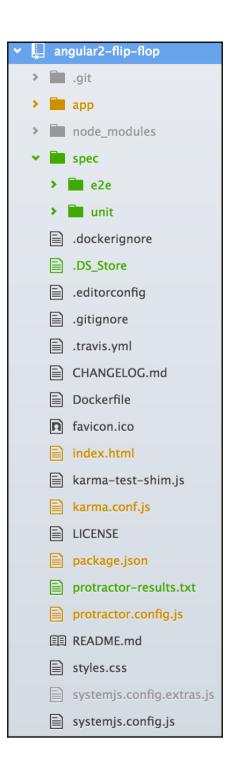




#### **Chapter 7: Flip Flop**



## **My First Angular App**

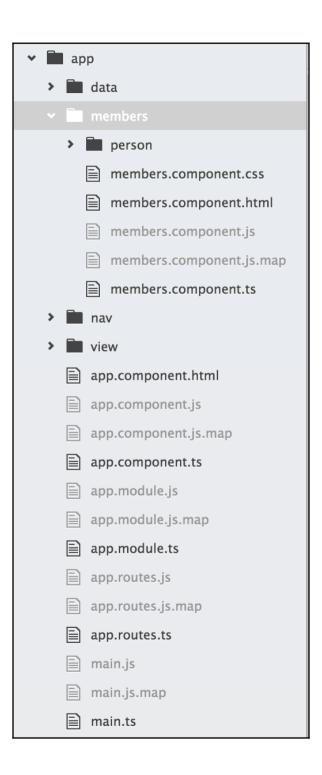


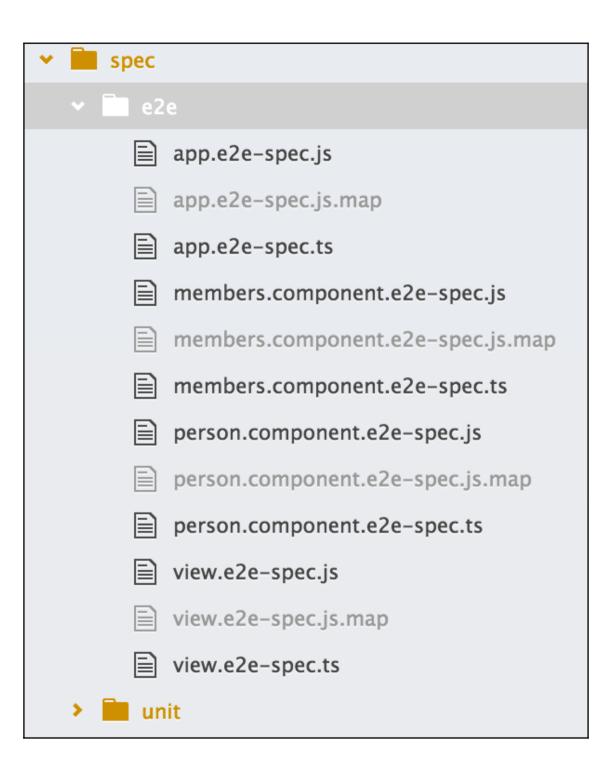
### **My First Angular 2 App**

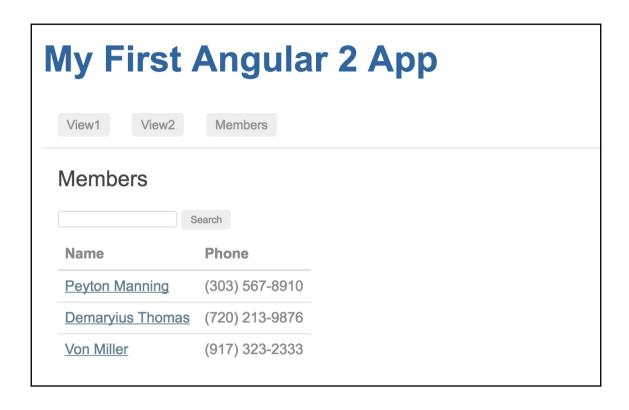
View1 View2

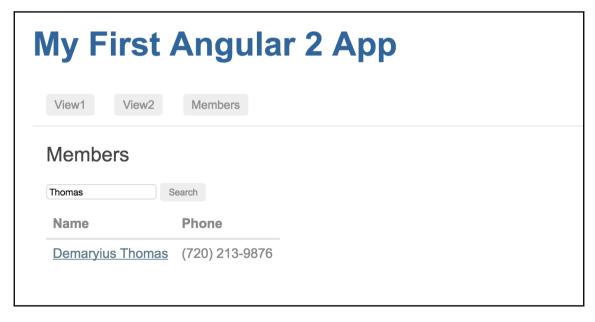
Members

I am view one component









# My First Angular 2 App View1 View2 Members Member Details Name: Demaryius Thomas Phone: (720) 213-9876 Street: 5555 Marion Street City: Denver State: CO Zip: 80202

```
[1] [23:48:38] I/direct - Using ChromeDriver directly...
[1] [23:48:38] I/launcher - Running 1 instances of WebDriver
[1] AppDir: ./
[1] Started
     Suite: Given should test the search feature
[1] .
        passed - should have an input and search button
[1] .
        passed - There should be one item in search result
     Suite passed: Given should test the search feature
     Suite: Given should test the search result in details view
[1] .
        passed - should be load the person details page
     Suite passed: Given should test the search result in details view
     Suite: Given views should flip through navigation in
[1] .
        passed - View1 should load and visible initially
[1] .
         passed - View1 should have body content as expected
[1] .
        passed - Should flipped to View2 and view2 should visible
[1] .
        passed - Should flipped to View2 and should have body content as expected
        passed - Should flipped to View1 again and should visible
     Suite passed: Given views should flip through navigation in
[1] 8 specs, 0 failures
[1] Finished in 17.085 seconds
    [23:49:00] I/launcher - 0 instance(s) of WebDriver still running
    [23:49:00] I/launcher - chrome #01 passed
```

#### **Chapter 8: Telling the World**

# My First Angular 2 App View1 View2 Members I am view one component

```
[1] [23:48:38] I/direct - Using ChromeDriver directly...
[1] [23:48:38] I/launcher - Running 1 instances of WebDriver
[1] AppDir: ./
[1] Started
     Suite: Given should test the search feature
[1] .
        passed - should have an input and search button
[1] .
        passed - There should be one item in search result
     Suite passed: Given should test the search feature
     Suite: Given should test the search result in details view
[1] .
        passed - should be load the person details page
     Suite passed: Given should test the search result in details view
     Suite: Given views should flip through navigation in
[1] .
        passed - View1 should load and visible initially
[1] .
         passed - View1 should have body content as expected
[1] .
        passed - Should flipped to View2 and view2 should visible
[1] .
        passed - Should flipped to View2 and should have body content as expected
        passed - Should flipped to View1 again and should visible
     Suite passed: Given views should flip through navigation in
[1] 8 specs, 0 failures
[1] Finished in 17.085 seconds
    [23:49:00] I/launcher - 0 instance(s) of WebDriver still running
    [23:49:00] I/launcher - chrome #01 passed
```

