SECTION 01 - COURSE KICKOFF

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- Initial commands

git clone git@github.com:angular-university/angular-testing-course.git git checkout 1-start (terminal tab 1) npm install (terminal tab 2) npm run server -> start backend app (terminal tab 3) npm start -> start frontend server (from the browser) localhost:4200

Quick introduction to Jasmine

- Jasmine is a Behavior Driven JavaScript testing framework.
- In Jasmine, our tests are known as "specifications" or "specs", and they are grouped in test suites.
- A specification is simply a functional test. So a specification is meant to test a particular functional feature of our application.
- Karma is used internally by the Angular CLI.
- ng test launches an instance of the Chrome browser where the tests are going to be executed.
- In order to run our tests without hot reload mode, we run "ng test –no-watch".

```
✓ services

TS calculator.service.spec.ts

U

TS calculator.service.ts
```

```
describe("CalculatorService", () => {
   it("should add two numbers", () => {
     pending();
   });

it("should substract two numbers", () => {
     pending();
   });
};

pending();
};
```

```
chipo@chipo-lap:~/lab/angular/testing/udemy_course_01/codes/angular-testing-course$ ng test --no-watch
"Generating browser application bundles (phase: building)...10 10 2021 17:10:45.920:INFO [karma-server]: Karma v6.3.2 server started at http://localhost:9876/
10 10 2021 17:10:45.921:INFO [launcher]: Launching browsers Chrome with concurrency unlimited
10 10 2021 17:10:45.924:INFO [launcher]: Starting browser Chrome

We Browser application bundle generation complete.
10:c10 2021917:10:53.890:INFO [Chrome 93.0.4577.82, (Linux, x86_64)]: Connected on socket fSd vKogqY_23SXCEAAAB with yid 9104035eSpec.onInvok
Chrome 93.0.4577.82 (Linux x86_64): Executed 0 of 2 (skipped 2) SUCCESS (0.02 secs / 0 secs)

S)s/zone.js/dist/zone.js.ZoneDelegate.invoke (http://TOTAL: 0 SUCCESS (1) (skipped 1) ERROR (0.262 sec
```

- Create a mock

Crate a mock: jasmine.createSpvObi("LoggerService", ["log"]);

Where LoggerService is the actual class to mock and the second parameter is the list of methods that are called from the service.

 And based on the mock we can assert something like: expect(logger.log).toHaveBeenCalledTimes(1);

- TestBed

• **TestBed** provides the dependencies to our services by using dependency injection instead of calling constructor's explicitly.

```
loggerSpy = jasmine.createSpyObj("LoggerService", ["log"]);

TestBed.configureTestingModule({
  providers: [
    CalculatorService,
    { provide: LoggerService, useValue: loggerSpy },
    ],
});

calculator = TestBed.inject<CalculatorService>(CalculatorService);
// calculator = new CalculatorService(loggerSpy)
```

- Disable the test suit

- Add an "x" before describe.
 xdescribe("CalculatorService", () => {
- The same applies to disable a specific test case:
 xit("should add two numbers", () => {

- Focusing

 Add an "f" before describe. So jasmin will focus on a certain test suit and it will disable all the rest.

```
fdescribe("CalculatorService", () => {
```

The same applies to focus on a specific test case:

```
fit("should add two numbers", () => {
```