Ingeniera de Software 3

TP 10: Pruebas de intergracion

4.1: Inicializamos el proyecto

4.2-

```
 Useful links:

    👉 How to start testing ASAP: https://codecept.io/quickstart/#init
    👉 How to select helper: https://codecept.io/basics/#architecture
    👉 TypeScript setup: https://codecept.io/typescript/#getting-started

Installing to C:\Users\Nico\Documents\Ing de Soft 3\TP10
? Do you plan to write tests in TypeScript? No
? Where are your tests located? ./*_test.js
? What helpers do you want to use? Playwright
? Where should logs, screenshots, and reports to be stored? ./output
? Do you want to enable localization for tests? http://bit.ly/3GNUBbh English (no localization)
Configure helpers...
? [Playwright] Browser in which testing will be performed. Possible options: chromium, firefox, webkit or electron chromium
? [Playwright] Base url of site to be tested https://github.com
? [Playwright] Show browser window Yes

Steps file created at ./steps_file.js
Config created at C:\Users\Nico\Documents\Ing de Soft 3\TP10\codecept.conf.js
Directory for temporary output files created at './output'
Intellisense enabled in C:\Users\Nico\Documents\Ing de Soft 3\TP10\jsconfig.json
Installing packages:

up to date, audited 434 packages in 3s

63 packages are looking for funding
  run `npm fund` for details

8 vulnerabilities (7 moderate, 1 high)

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.
TypeScript Definitions provide autocompletion in Visual Studio Code and other IDEs
Definitions were generated in steps.d.ts

 Almost ready... Next step:
Creating a new test...
------------------------
? Feature which is being tested (ex: account, login, etc) sample
? Filename of a test sample_test.js

Test for sample_test.js was created in C:\Users\Nico\Documents\Ing de Soft 3\TP10\sample_test.js

--
CodeceptJS Installed! Enjoy supercharged testing! 🥤
Find more information at https://codecept.io

PS C:\Users\Nico\Documents\Ing de Soft 3\TP10>
```
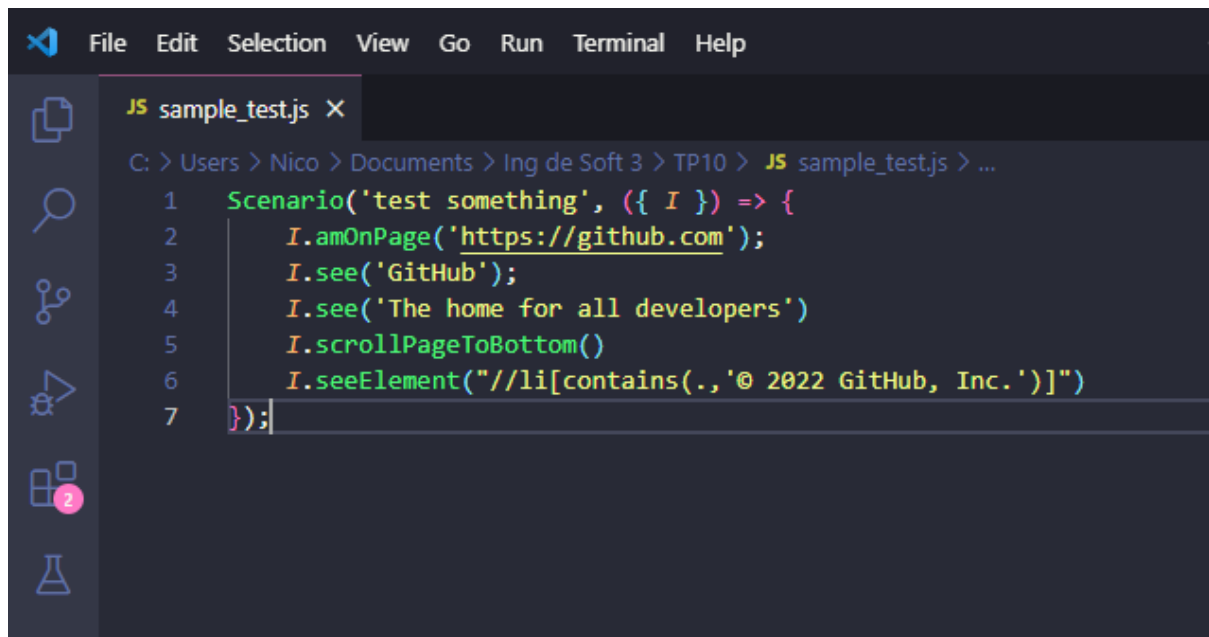
4.3- Corro el test:

```
 FAIL   | 0 passed, 1 failed  // 9ms
Run with --verbose flag to see complete NodeJS stacktrace
PS C:\Users\Nico\Documents\Ing de Soft 3\TP10> npx playwright install
Downloading Chromium 117.0.5938.62 (playwright build v1080) from https://playwright.azureedge.net/builds/chromium/1080/c
hromium-win64.zip
118.6 Mb [====================] 100% 0.0s
Chromium 117.0.5938.62 (playwright build v1080) downloaded to C:\Users\Nico\AppData\Local\ms-playwright\chromium-1080
Downloading FFMPEG playwright build v1009 from https://playwright.azureedge.net/builds/ffmpeg/1009/ffmpeg-win64.zip
1.4 Mb [====================] 100% 0.0s
FFMPEG playwright build v1009 downloaded to C:\Users\Nico\AppData\Local\ms-playwright\ffmpeg-1009
Downloading Firefox 117.0 (playwright build v1424) from https://playwright.azureedge.net/builds/firefox/1424/firefox-win
64.zip
78 Mb [====================] 100% 0.0s
Firefox 117.0 (playwright build v1424) downloaded to C:\Users\Nico\AppData\Local\ms-playwright\firefox-1424
Downloading Webkit 17.0 (playwright build v1908) from https://playwright.azureedge.net/builds/webkit/1908/webkit-win64.z
ip
45.9 Mb [====================] 100% 0.0s
Webkit 17.0 (playwright build v1908) downloaded to C:\Users\Nico\AppData\Local\ms-playwright\webkit-1908
PS C:\Users\Nico\Documents\Ing de Soft 3\TP10> npx codeceptjs run
CodeceptJS v3.5.6 #StandWithUkraine
Using test root "C:\Users\Nico\Documents\Ing de Soft 3\TP10"

My First Test --
  ✓ test something in 1827ms

 OK  | 1 passed  // 3s
PS C:\Users\Nico\Documents\Ing de Soft 3\TP10>
```
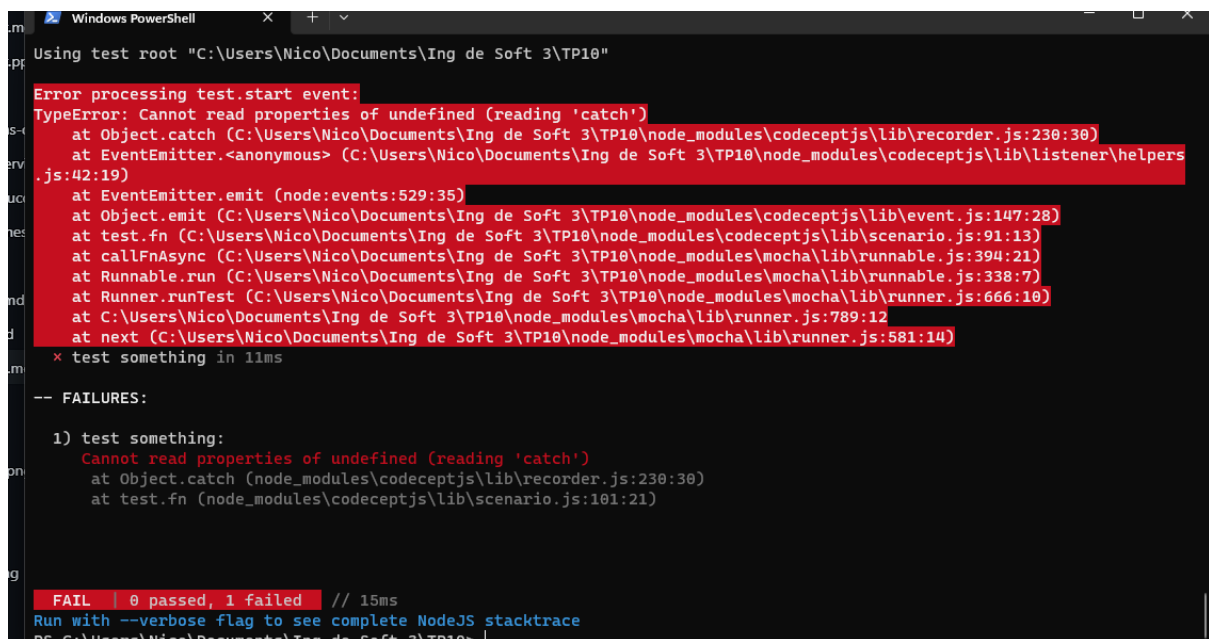
Agrego otras validaciones y lo corro:

```
JS sample_test.js ×

C: > Users > Nico > Documents > Ing de Soft 3 > TP10 > JS sample_test.js > ...
    1    Scenario('test something', ({ I }) => {
    2        I.amOnPage('https://github.com');
    3        I.see('GitHub');
    4        I.see('The home for all developers')
    5        I.scrollPageToBottom()
    6        I.seeElement("//li[contains(.,'© 2022 GitHub, Inc.')]")
    7    });
```



```
Windows PowerShell

Using test root "C:\Users\Nico\Documents\Ing de Soft 3\TP10"

Error processing test.start event:
TypeError: Cannot read properties of undefined (reading 'catch')
    at Object.catch (C:\Users\Nico\Documents\Ing de Soft 3\TP10\node_modules\codeceptjs\lib\recorder.js:230:30)
    at EventEmitter.<anonymous> (C:\Users\Nico\Documents\Ing de Soft 3\TP10\node_modules\codeceptjs\lib\listener\helpers
.js:42:19)
    at EventEmitter.emit (node:events:529:35)
    at Object.emit (C:\Users\Nico\Documents\Ing de Soft 3\TP10\node_modules\codeceptjs\lib\event.js:147:28)
    at test.fn (C:\Users\Nico\Documents\Ing de Soft 3\TP10\node_modules\codeceptjs\lib\scenario.js:91:13)
    at callFnAsync (C:\Users\Nico\Documents\Ing de Soft 3\TP10\node_modules\mocha\lib\runnable.js:394:21)
    at Runnable.run (C:\Users\Nico\Documents\Ing de Soft 3\TP10\node_modules\mocha\lib\runnable.js:338:7)
    at Runner.runTest (C:\Users\Nico\Documents\Ing de Soft 3\TP10\node_modules\mocha\lib\runner.js:666:10)
    at C:\Users\Nico\Documents\Ing de Soft 3\TP10\node_modules\mocha\lib\runner.js:789:12
    at next (C:\Users\Nico\Documents\Ing de Soft 3\TP10\node_modules\mocha\lib\runner.js:581:14)
  × test something in 11ms

-- FAILURES:

  1) test something:
     Cannot read properties of undefined (reading 'catch')
      at Object.catch (node_modules\codeceptjs\lib\recorder.js:230:30)
      at test.fn (node_modules\codeceptjs\lib\scenario.js:101:21)


  FAIL  | 0 passed, 1 failed  // 15ms
Run with --verbose flag to see complete NodeJS stacktrace
PS C:\Users\Nico\Documents\Ing de Soft 3\TP10>
```
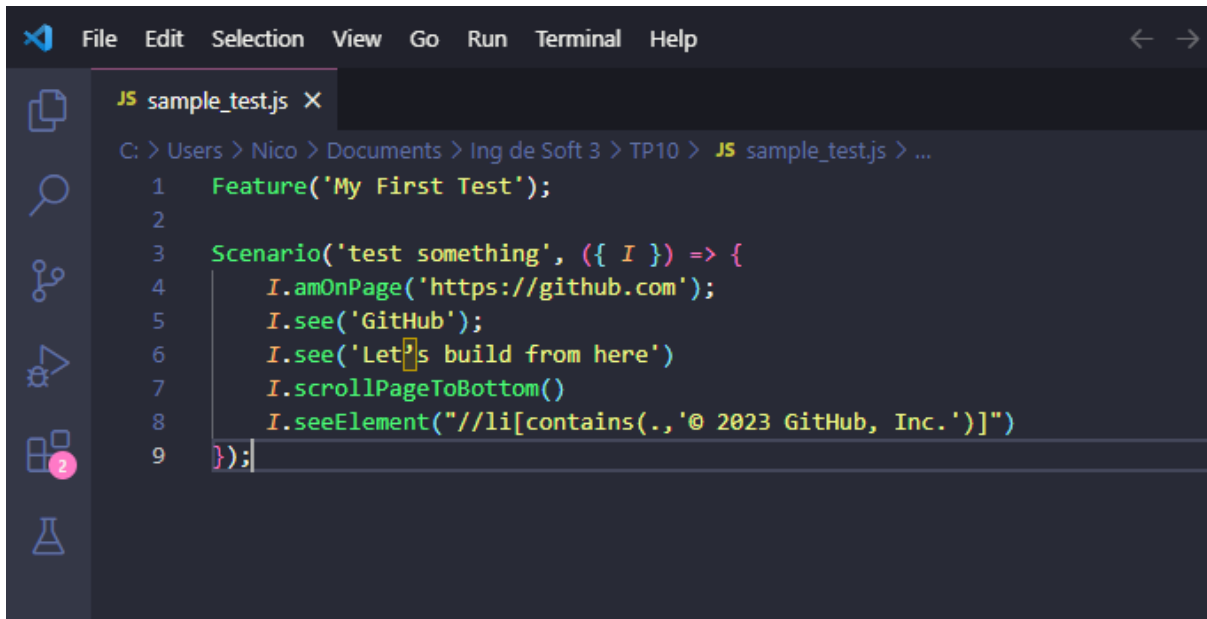
Falla debido a que la pagina cambio por lo que actualizamos el codigo y corremos:
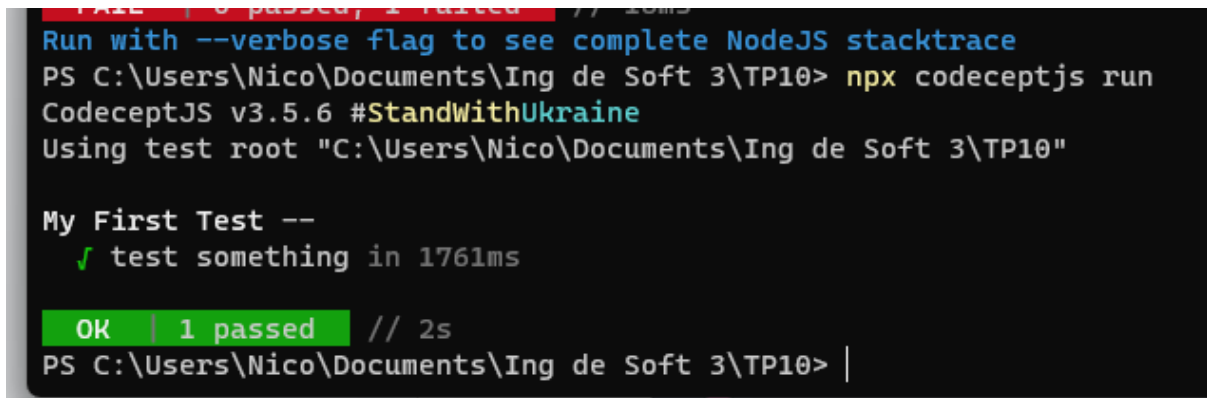
```js
Feature('My First Test');

Scenario('test something', ({ I }) => {
    I.amOnPage('https://github.com');
    I.see('GitHub');
    I.see('Let's build from here')
    I.scrollPageToBottom()
    I.seeElement("//li[contains(.,'© 2023 GitHub, Inc.')]")
});
```
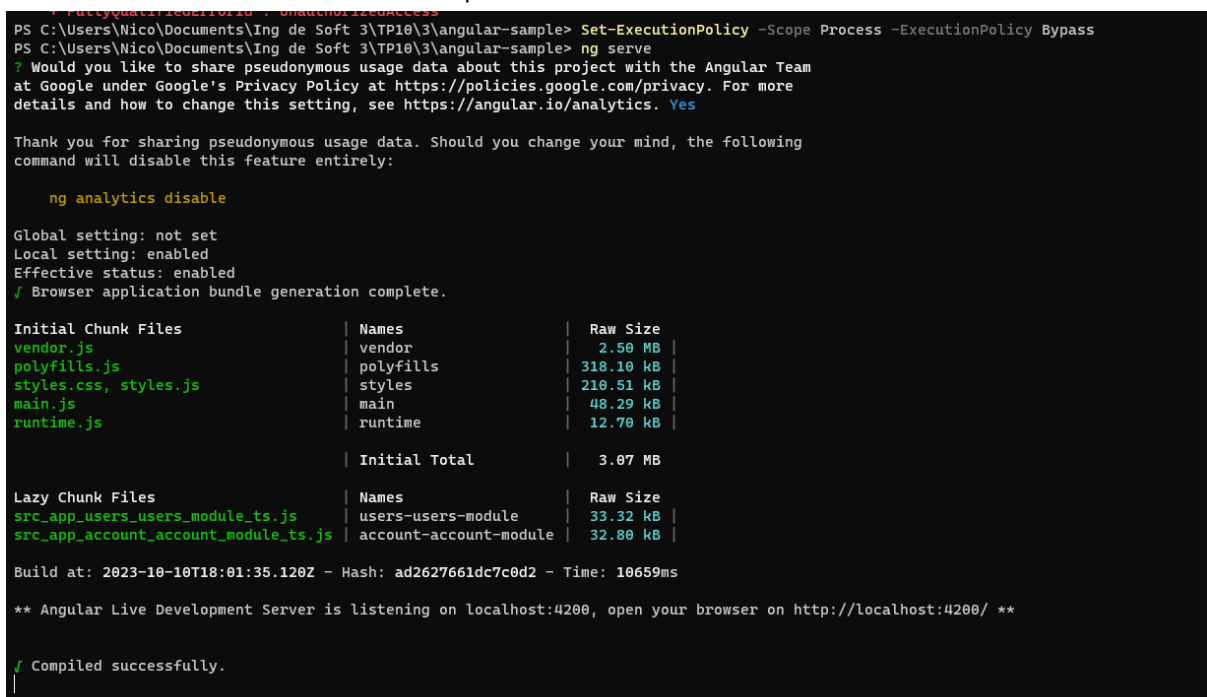


```
Run with --verbose flag to see complete NodeJS stacktrace
PS C:\Users\Nico\Documents\Ing de Soft 3\TP10> npx codeceptjs run
CodeceptJS v3.5.6 #StandWithUkraine
Using test root "C:\Users\Nico\Documents\Ing de Soft 3\TP10"

My First Test --
  √ test something in 1761ms

  OK  | 1 passed  // 2s
PS C:\Users\Nico\Documents\Ing de Soft 3\TP10> |
```

5.1- Primero clonamos e instalamos dependencias:


```
PS C:\Users\Nico\Documents\Ing de Soft 3\TP10\3\angular-sample> Set-ExecutionPolicy -Scope Process -ExecutionPolicy Bypass
PS C:\Users\Nico\Documents\Ing de Soft 3\TP10\3\angular-sample> ng serve
? Would you like to share pseudonymous usage data about this project with the Angular Team
at Google under Google's Privacy Policy at https://policies.google.com/privacy. For more
details and how to change this setting, see https://angular.io/analytics. Yes

Thank you for sharing pseudonymous usage data. Should you change your mind, the following
command will disable this feature entirely:

    ng analytics disable

Global setting: not set
Local setting: enabled
Effective status: enabled
√ Browser application bundle generation complete.

Initial Chunk Files           | Names             | Raw Size
vendor.js                     | vendor            |   2.50 MB |
polyfills.js                  | polyfills         | 318.10 kB |
styles.css, styles.js         | styles            | 210.51 kB |
main.js                       | main              |  48.29 kB |
runtime.js                    | runtime           |  12.70 kB |

                              | Initial Total     |   3.07 MB

Lazy Chunk Files              | Names             | Raw Size
src_app_users_users_module_ts.js | users-users-module |  33.32 kB |
src_app_account_account_module_ts.js | account-account-module |  32.80 kB |

Build at: 2023-10-10T18:01:35.120Z - Hash: ad2627661dc7c0d2 - Time: 10659ms

** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **


√ Compiled successfully.
```
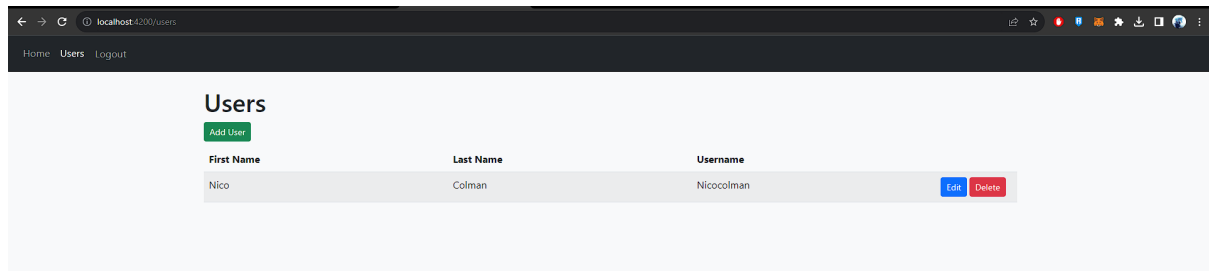
Abrimos http://localhost:4200/users y vemos que funciona

5.2- Creamos el proyecto de codecept.js e inicializamos

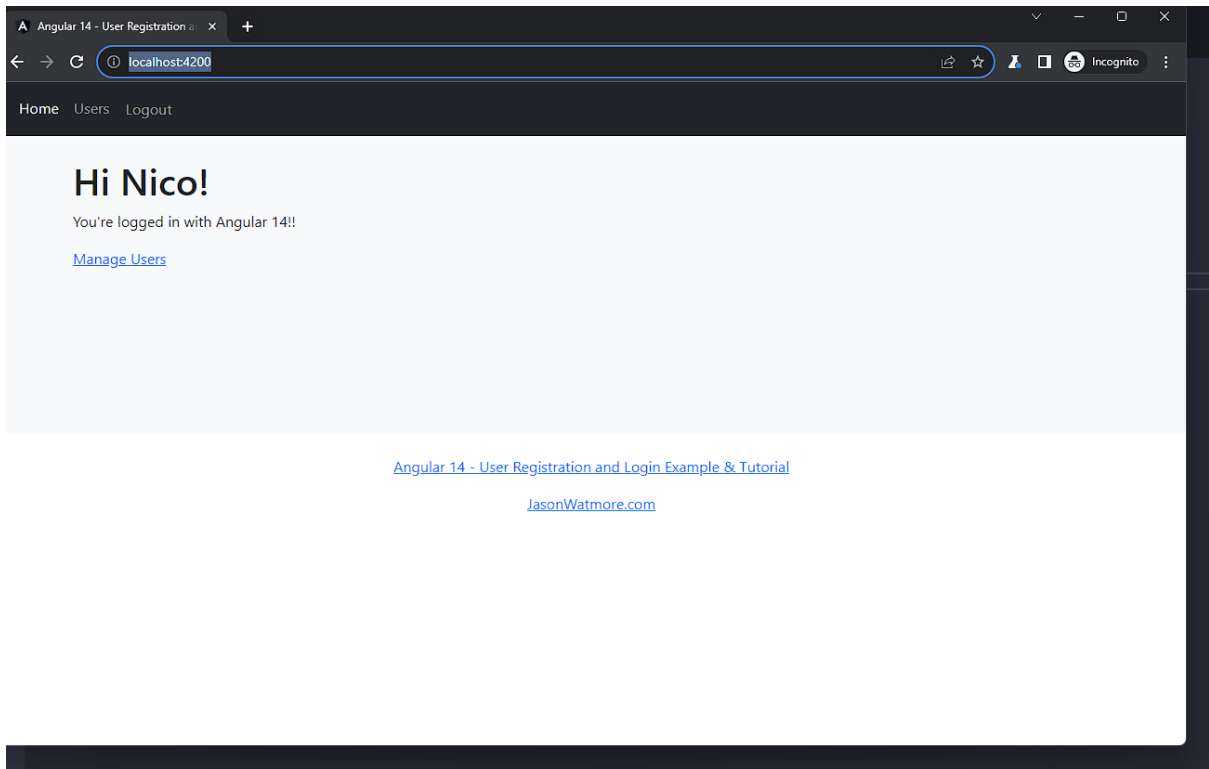5-3: Ahora creamos la prueba para probar login correcto o incorrecto:

```
C: > Users > Nico > Documents > Ing de Soft 3 > TP10 > 3 > angular-sample > JS sample_test.j
  1    Feature('My First Test');
  2
  3
  4    Scenario('Register', ({ I }) => {
  5        I.amOnPage('http://localhost:4200/');
  6        I.click('Register')
  7        I.fillField('[formcontrolname="firstName"]', 'Nico');
  8        I.fillField('[formcontrolname="lastName"]', 'Colman');
  9        I.fillField('[formcontrolname="username"]', 'Nicocolman');
 10        I.fillField('[formcontrolname="password"]', '123456');
 11        I.click('Register')
 12   💡    I.amOnPage('http://localhost:4200/account/login');
 13        I.fillField('[formcontrolname="username"]', 'Nicocolman');
 14        I.fillField('[formcontrolname="password"]', '123456');
 15        I.click('Login')
 16        I.waitForElement('Hi', 100);
 17    });
 18
 19
 20    Scenario('Login', ({ I }) => {
 21        I.amOnPage('http://localhost:4200/');
 22        I.see('Login');
 23        I.fillField('[formcontrolname="username"]', 'Nicocolman');
 24        I.fillField('[formcontrolname="password"]', '123456');
 25        I.click('Login')
 26        I.waitForElement('Hi', 100);
 27    });
```

Debido a un bug en el programa para poder logearnos correctamente necesitamos registrar el usuario e iniciar sesion en la misma prueba porque los usuarios no quedan guardados al usar modo incognito.

Login correcto:

Login incorrecto: