

# Ingeniera de Software 3

## TP 10: Pruebas de intergracion

### 4.1: Inicializamos el proyecto

```
Z-debug-0.log
PS C:\Users\Nico\Documents\Ing de Soft 3\TP10> npm install -g npm@latest

added 1 package in 7s

29 packages are looking for funding
  run `npm fund` for details
PS C:\Users\Nico\Documents\Ing de Soft 3\TP10> npx create-codeceptjs .
Need to install the following packages:
create-codeceptjs@0.1.8
Ok to proceed? (y) y

CREATE
CODECEPTJS

🔥 Supercharged End 2 End Testing 🌟

Creating CodeceptJS project in C:\Users\Nico\Documents\Ing de Soft 3\TP10

Powered by Playwright engine
package.json file does not exist in current dir, creating it...
Installing packages: codeceptjs@3, @codeceptjs/ui, @codeceptjs/examples, @codeceptjs/configure, playwright@1
[ ] - idealTree:TP10: sill idealTree buildDeps
Installing to /Users/arielachmidt/projects/ucp/TPs/10
```

## 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/3GNUUBh 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> |
```

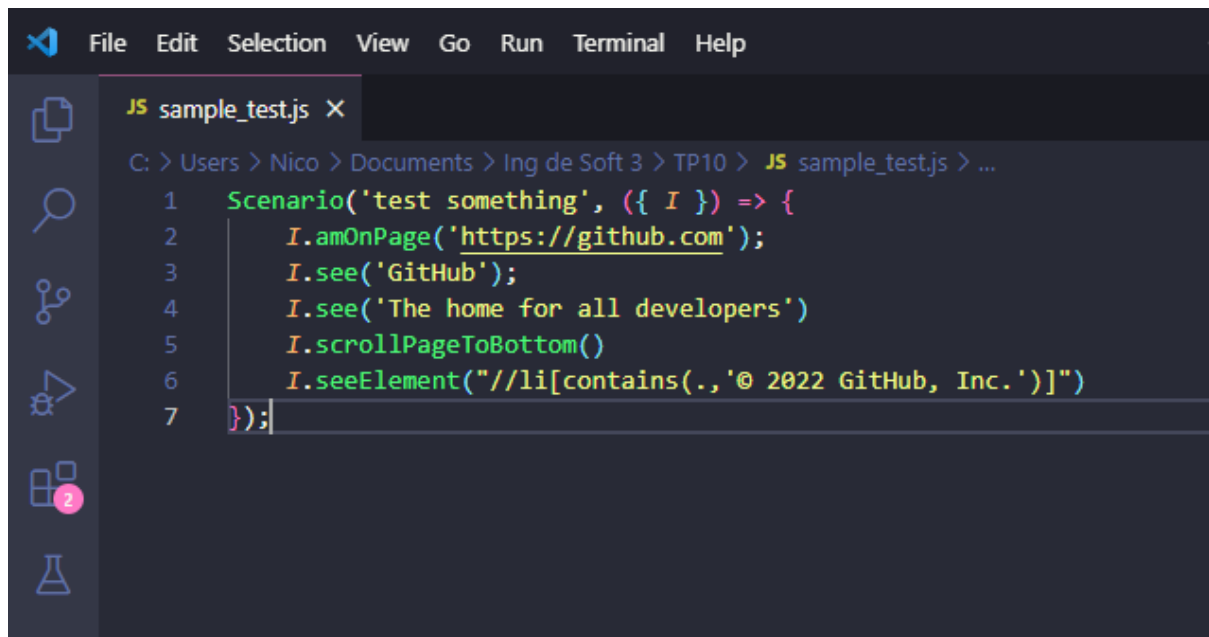
## 4.3- Corro el test:

```
Windows PowerShell
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/chromium-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-win64.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.zip
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:

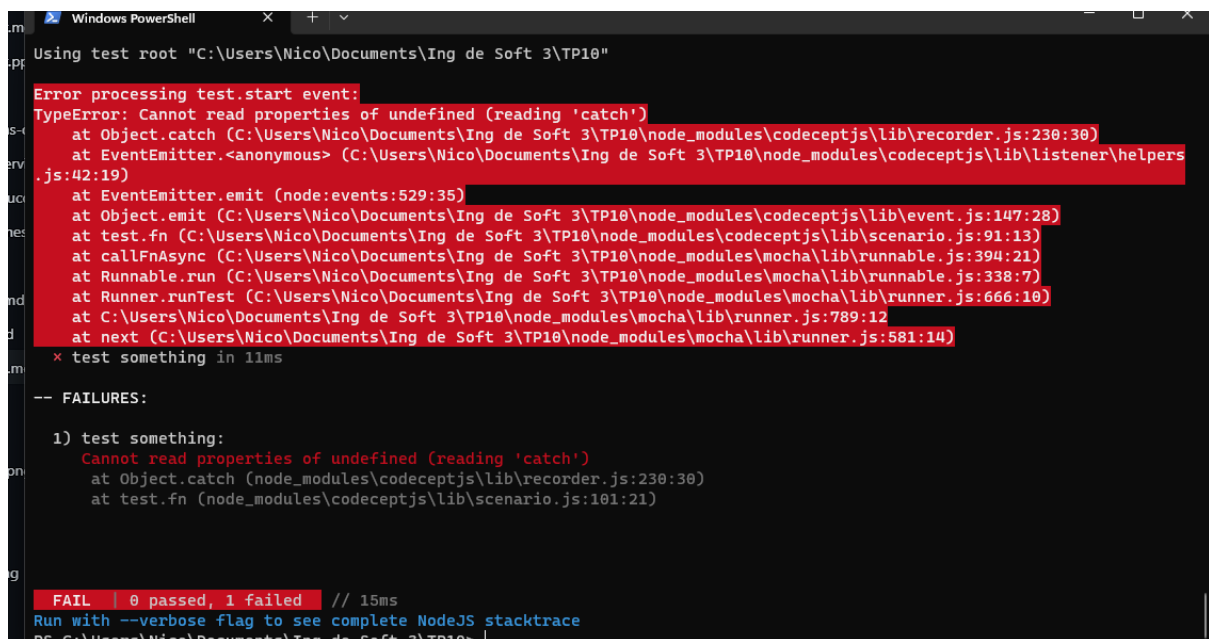


```
File Edit Selection View Go Run Terminal Help

JS sample_test.js X

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.scrollToBottom()
6   I.seeElement("//li[contains(., '© 2022 GitHub, Inc.')]")
7 });
```



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

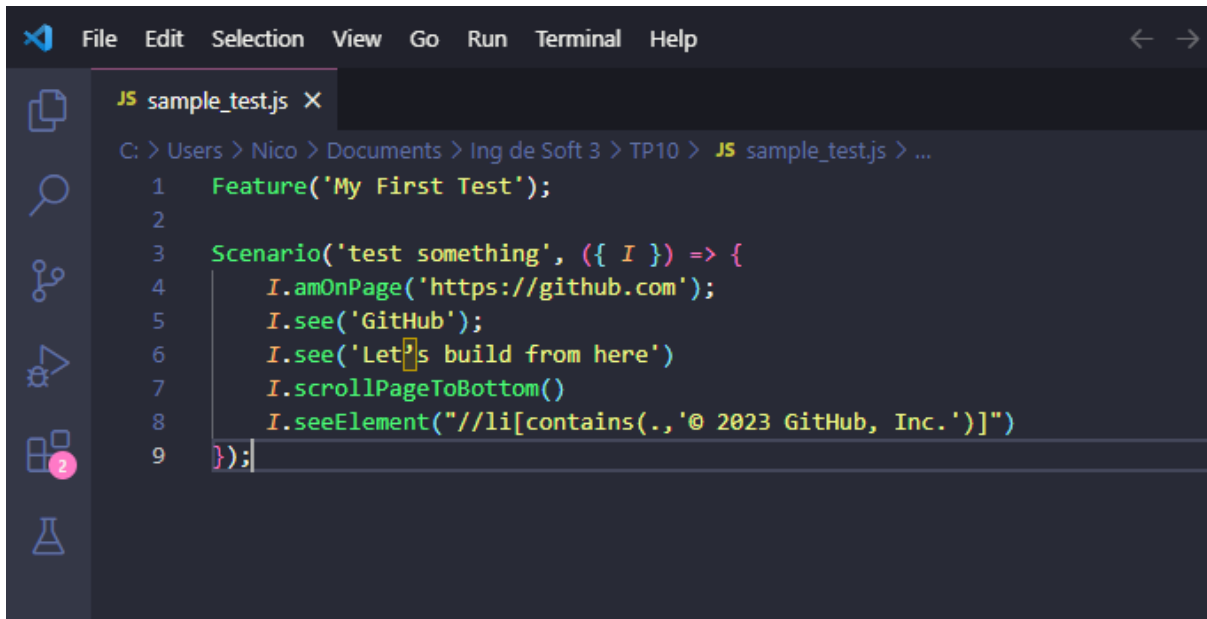
Error processing test.start event:
TypeError: Cannot read properties of undefined (reading 'catch')
    at Object.catch (C:\Users\Nico\Documents\Ing de Soft 3\TP10\node_modules\codeceptjs\lib\recorder.js:230:30)
    at EventEmitter.<anonymous> (C:\Users\Nico\Documents\Ing de Soft 3\TP10\node_modules\codeceptjs\lib\listener\helpers.js:42:19)
    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)
    x 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:

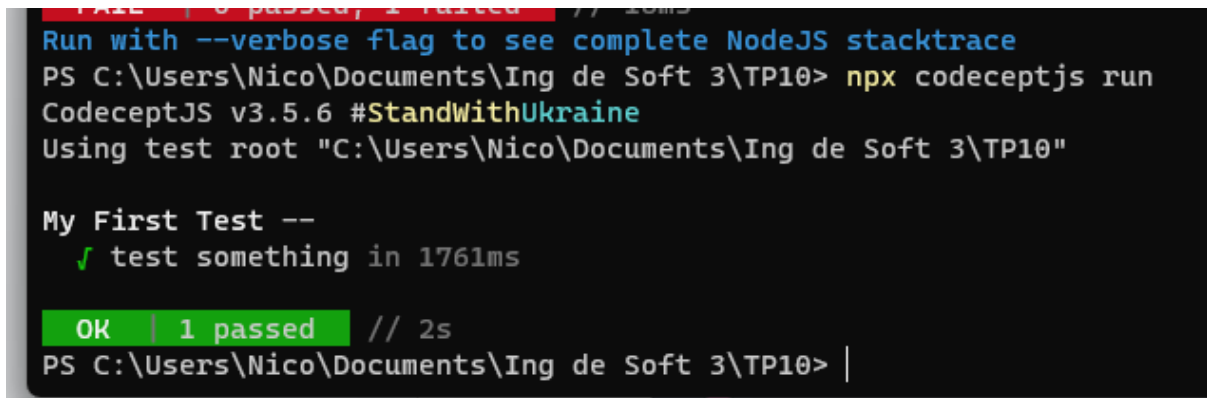


```
File Edit Selection View Go Run Terminal Help

JS sample_test.js X

C: > Users > Nico > Documents > Ing de Soft 3 > TP10 > JS sample_test.js > ...

1 Feature('My First Test');
2
3 Scenario('test something', ({ I }) => {
4   I.amOnPage('https://github.com');
5   I.see('GitHub');
6   I.see('Let's build from here')
7   I.scrollPageToBottom()
8   I.seeElement("//li[contains(., '@ 2023 GitHub, Inc.')]")
9 });
```

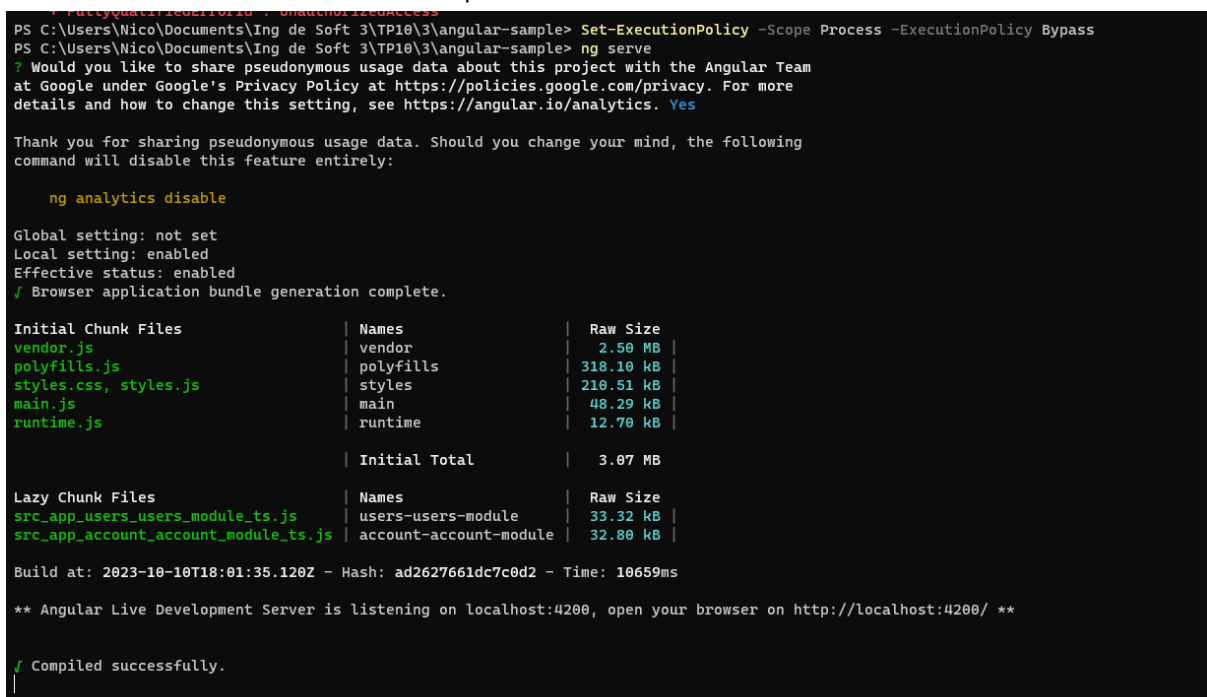


```
FAIL: 0 passed, 1 failed // 20ms
Run with --verbose flag to see complete NodeJS stacktrace
PS C:\Users\Nico\Documents\Ing de Soft 3\TP10> npx codeceptjs run
CodeceptJS v3.5.6 #StandWithUkraine
Using test root "C:\Users\Nico\Documents\Ing de Soft 3\TP10"

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 |

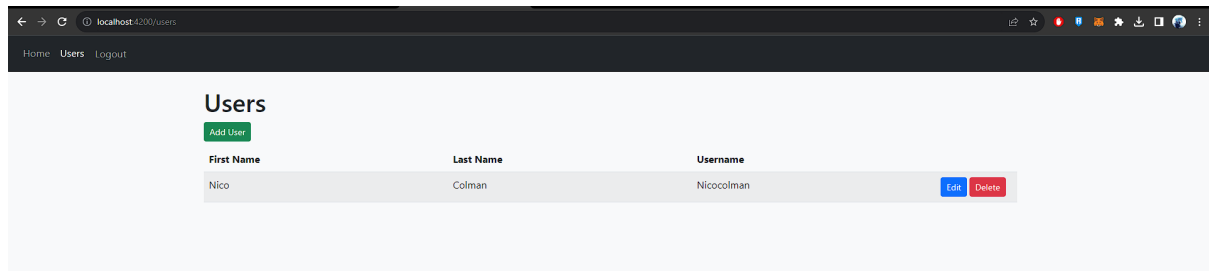
Lazy Chunk Files | Names | Raw Size |
src_app_users_users_module_ts.js | users-users-module | 33.32 kB |
src_app_account_account_module_ts.js | account-account-module | 32.80 kB |

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



[Angular 14 - User Registration and Login Example & Tutorial](#)  
[JasonWatmore.com](#)

5.2- Creamos el proyecto de codecept.js e inicializamos

```
up to date, audited 1190 packages in 3s
156 packages are looking for funding
  run `npm fund` for details
17 vulnerabilities (10 moderate, 7 high)
To address issues that do not require attention, run:
  npm audit fix
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\3\angular-sample\sample_test.js
--
CodeceptJS Installed! Enjoy supercharged testing! 🎉
Find more information at https://codecept.io
```

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

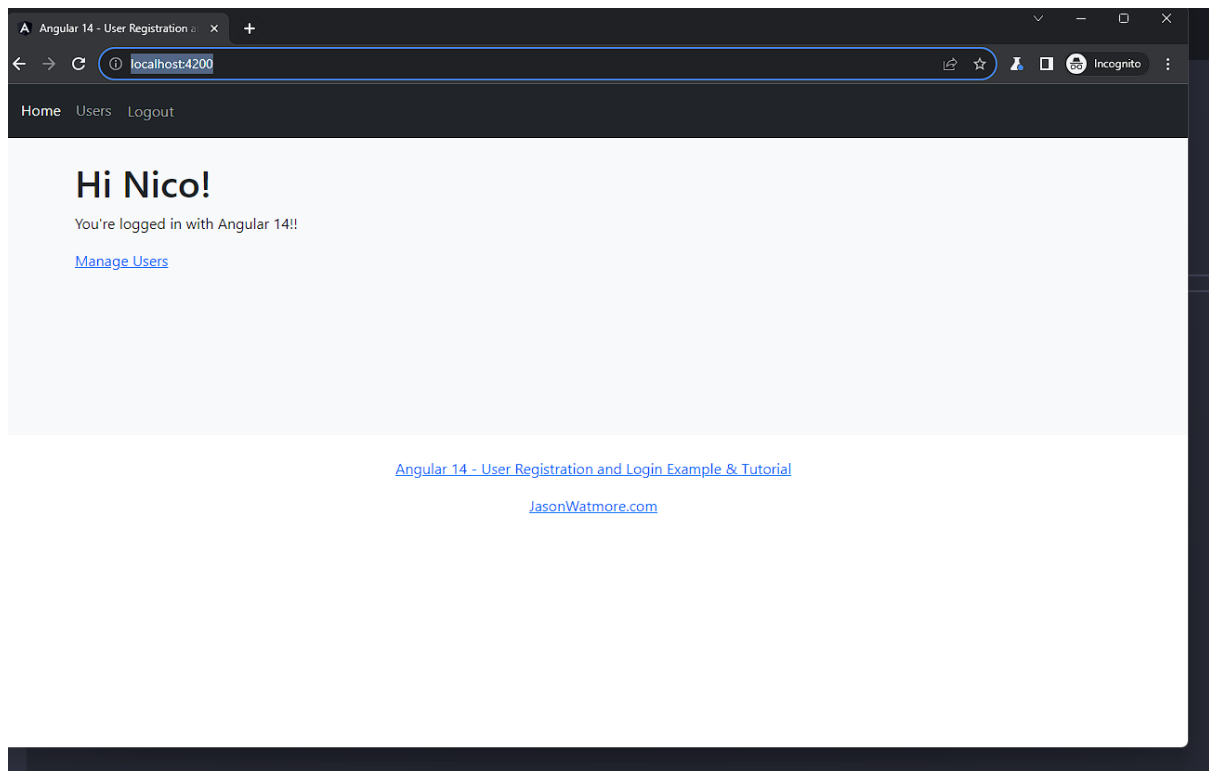
```

C: > Users > Nico > Documents > Ing de Soft 3 > TP10 > 3 > angular-sample > JS sample_test.js
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"]', 'Nicolcolman');
10     I.fillField('[formcontrolname="password"]', '123456');
11     I.click('Register')
12     I.amOnPage('http://localhost:4200/account/login');
13     I.fillField('[formcontrolname="username"]', 'Nicolcolman');
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"]', 'Nicolcolman');
24     I.fillField('[formcontrolname="password"]', '123456');
25     I.click('Login')
26     I.waitForElement('Hi', 100);
27 });

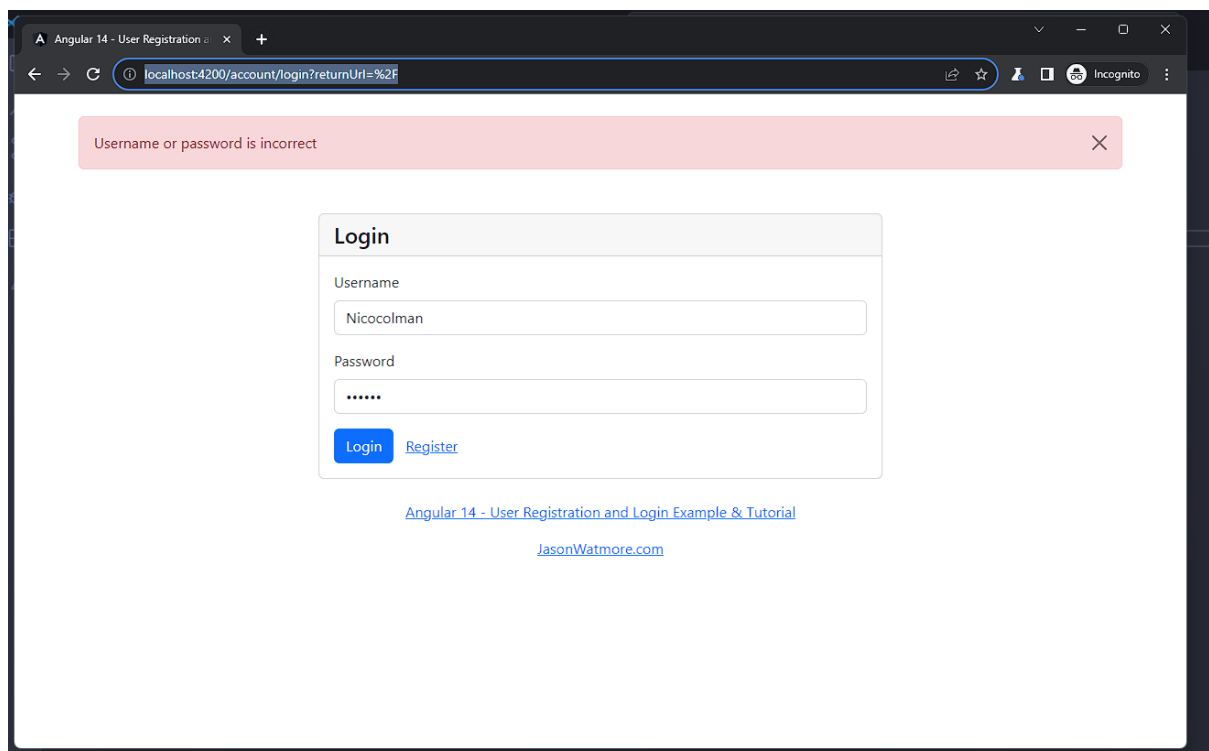
```

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:



## 4.4: Reportes

Instalamos

```
Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/angular-sample (master)
$ npm i mocha-junit-reporter mocha-multi --save
npm i mochawesome
npm i mochawesome-report-generator

added 11 packages, removed 1 package, and audited 1201 packages in 10s

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

18 vulnerabilities (10 moderate, 7 high, 1 critical)

To address issues that do not require attention, run:
  npm audit fix

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

Run `npm audit` for details.

added 30 packages, and audited 1231 packages in 8s

159 packages are looking for funding
```

Corremos el test

The image shows a terminal window and a web browser. The terminal window, titled 'MINGW64: c:/Users/Nico/Documents/angular-sample', shows the command `npx codeceptjs run --steps` being executed. The output indicates that the test 'sample' passed successfully, taking 7404ms, and that the report was saved to `C:\Users\Nico\Documents\angular-sample\output\mochawesome-report.json` and `C:\Users\Nico\Documents\angular-sample\output\mochawesome-report.html`. The web browser, titled 'angular-sample', displays the test results in a structured format.

```
sample
  ✓ Unificado (7404ms)

1 passing (11s)

[mochawesome] Report JSON saved to C:\Users\Nico\Documents\angular-sample\output\mochawesome-report.json
[mochawesome] Report HTML saved to C:\Users\Nico\Documents\angular-sample\output\mochawesome-report.html

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/angular-sample (master)
$
```

The web browser shows the test results for 'sample' (login\_test.js) with a duration of 7.4s and 1 passing test. The test is marked as 'Unificado' (Unified) with a green checkmark.

Test Name	Duration	Status
sample (login_test.js)	7.4s	1 passing
Unificado	7.4s	Passing