

Taller 8

Automatización de Pruebas

Semana 10

Reinaldo Portocarrero

Mutation Testing

Mutation con Mutode

Se realiza ejecución de suite de pruebas, de la aplicación **chalk**

```
chalk git:(master) npm test
> chalk@2.4.1 test /Users/juniorportom/projects/unianandes/pruebas_automaticas/talleres/mutation/chalk
> xo && nyc ava && tsd-check && flow

. enabled > propagate enable/disable changes from child colors
. enabled > propagate enable/disable changes from child colors

52 tests passed
1 known failure

no-color-support > colors can be forced by using chalk.enabled

-----|-----|-----|-----|-----|-----|
File      | % Stmts | % Branch | % Funcs | % Lines | Uncovered Line #s |
-----|-----|-----|-----|-----|-----|
All files | 100     | 100     | 96.43   | 100     |                   |
index.js  | 100     | 100     | 95.24   | 100     |                   |
templates.js | 100     | 100     | 100     | 100     |                   |
-----|-----|-----|-----|-----|-----|
Launching Flow server for /Users/juniorportom/projects/unianandes/pruebas_automaticas/talleres/mutation/chalk
Spawned flow server (pid=5774)
Logs will go to /private/tmp/flow/zSUserszSjuniorportomzProjectsSzunianandeszSpruebas_automaticaszStallereszSmutationzSchalk.log
Monitor logs will go to /private/tmp/flow/zSUserszSjuniorportomzProjectsSzunianandeszSpruebas_automaticaszStallereszSmutationzSchalk.monitor_log
No errors!
```



```

→ robobar-example git:(e92b8d4) x mutode -c 1
Mutode 155382842 running
Creating a copy of your module... Done

Loading mutators... Done

Verifying and timing your test suite
Took 8.36 seconds to run full test suite

Running mutants for src/app.module.js
MUTANT 1: RAEM Line 1: const app = angular.module('robobar', ['ngRoute']); killed 6822 ms
MUTANT 2: RFCAM Line 1: const app = angular.module('robobar', ['ngRoute']); killed 6731 ms
MUTANT 3: RFCAM Line 1: const app = angular.module('robobar', ['ngRoute']); killed 8141 ms
MUTANT 4: RFCAM Line 2: app.value('localStorage', window.localStorage); killed 6050 ms
MUTANT 5: RFCAM Line 2: app.value('localStorage', window.localStorage); killed 9455 ms
MUTANT 6: RLM Commented Line 1: const app = angular.module('robobar', ['ngRoute']); killed 6269 ms
MUTANT 7: RLM Commented Line 2: app.value('localStorage', window.localStorage); killed 6157 ms
MUTANT 8: SLM Line 1: const app = angular.module('robobar', ['ngRoute']); killed 7934 ms
MUTANT 9: SLM Line 1: const app = angular.module('robobar', ['ngRoute']); killed 8091 ms
MUTANT 10: SLM Line 1: const app = angular.module('robobar', ['ngRoute']); killed 6243 ms
MUTANT 11: SLM Line 1: const app = angular.module('robobar', ['ngRoute']); killed 8599 ms
MUTANT 12: SLM Line 2: app.value('localStorage', window.localStorage); killed 6475 ms
MUTANT 13: SLM Line 2: app.value('localStorage', window.localStorage); killed 8864 ms

Running mutants for src/routes.js
MUTANT 14: RFCAM Line 2: app.config($routeProvider) => {} killed 5775 ms
MUTANT 15: RFCAM Line 13: .otherwise(otherside({ killed 6214 ms
MUTANT 16: RFCAM Line 10: .when('/success', {} killed 7690 ms
MUTANT 17: RFCAM Line 10: .when('/success', {} killed 6313 ms
MUTANT 18: RFCAM Line 7: .when('/review', {} killed 6144 ms
MUTANT 19: RFCAM Line 7: .when('/review', {} killed 8161 ms
MUTANT 20: RFCAM Line 4: .when('/', {} killed 5372 ms
MUTANT 21: RFCAM Line 4: .when('/', {} killed 5236 ms
MUTANT 22: RFM Lines 1-17: Commented function (anonymous / assigned) survived 7937 ms
MUTANT 23: RFM Lines 2-16: Commented function (anonymous / assigned) survived 7279 ms
MUTANT 24: ROMM Line 5: template: '<robo-place-order></robo-place-order>' survived 5305 ms
MUTANT 25: ROMM Line 8: template: '<robo-review-order></robo-review-order>' survived 7547 ms
MUTANT 26: ROMM Line 11: template: '<robo-success></robo-success>' survived 7325 ms
MUTANT 27: ROMM Line 14: redirectTo: '/' survived 4934 ms
MUTANT 28: SLM Line 4: .when('/', {} survived 4725 ms
MUTANT 29: SLM Line 4: .when('/', {} survived 4629 ms
MUTANT 30: SLM Line 5: template: '<robo-place-order></robo-place-order>' survived 4780 ms
MUTANT 31: SLM Line 5: template: '<robo-place-order></robo-place-order>' survived 4773 ms
MUTANT 32: SLM Line 7: .when('/review', {} survived 4628 ms
MUTANT 33: SLM Line 7: .when('/review', {} survived 4769 ms
MUTANT 34: SLM Line 8: template: '<robo-review-order></robo-review-order>' survived 4934 ms
MUTANT 35: SLM Line 8: template: '<robo-review-order></robo-review-order>' survived 4826 ms
MUTANT 36: SLM Line 10: .when('/success', {} survived 4769 ms
MUTANT 37: SLM Line 10: template: '<robo-success></robo-success>' survived 4804 ms
MUTANT 38: SLM Line 11: template: '<robo-success></robo-success>' survived 4932 ms
MUTANT 39: SLM Line 11: template: '<robo-success></robo-success>' survived 4942 ms
MUTANT 40: SLM Line 14: redirectTo: '/' survived 4710 ms
MUTANT 41: SLM Line 14: redirectTo: '/' survived 4840 ms

Running mutants for src/place-order-component/place-order-component.html
Couldn't parse AST for file src/place-order-component/place-order-component.html
Deleting copies...Done

Mutode 155382842 finished. Took 8m 8.7s

Unexpected token (1:0)

```

Se ejecuta mutode sobre la aplicación.