



LE TEST, GRAND OUBLIÉ DE L'AGILITÉ

?

Nos sponsors



ENOVA

PRÉSENTATION

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#human #craft

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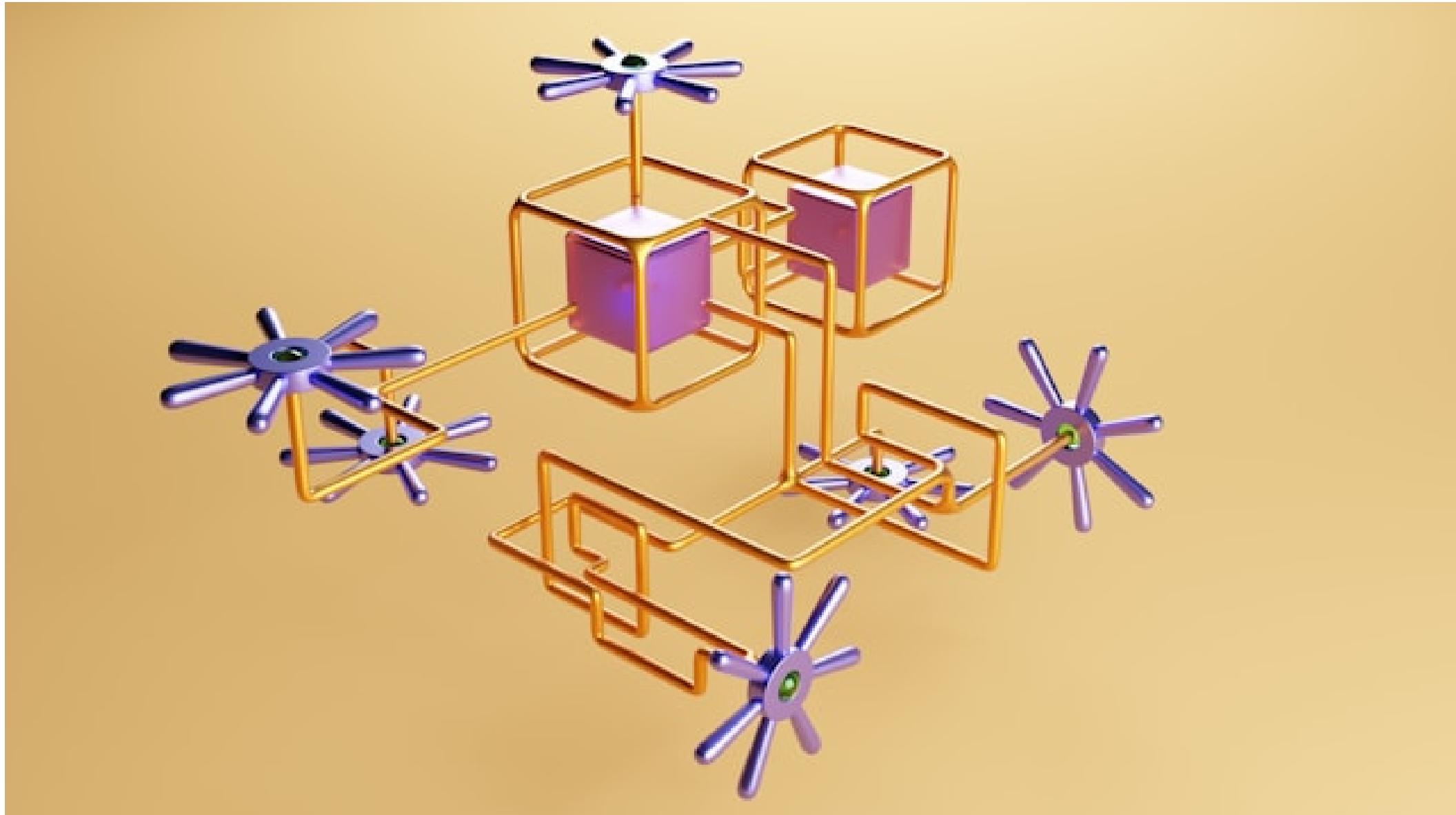
KAIZEN
S O L U T I O N S

INTRODUCTION : (RE)PENSER AUX TESTS OUBLIÉS



1. CODE TESTABLE ET ARCHITECTURE TESTABLE

PERMETTRE LA TESTABILITÉ



OU BIEN NE PAS POUVOIR TESTER



LA TESTABILITÉ EST UNE FEATURE

Date/time	Position of the Ship	Estimated Amount Discharged into Sea (m ³)					Estimated Amount Discharged to Reception Facilities or to other ship (m ³)	Estimated Amount Incinerated (m ³)	Certification/Signature
		CAT.2	CAT.3	CAT.4	CAT.5	CAT.6			
15.04/0530	MOORING A/S LOYANG 50E						0.002 m ³		<i>[Signature]</i>
16.04/0545	" "						0.003 m ³		<i>[Signature]</i>
17.04/1800	φ=03°59'S N λ=099°35'1E						0.006 m ³		<i>[Signature]</i>
18.04/1730	φ=06°04'3N λ=095°18'1E						0.004 m ³		<i>[Signature]</i>
19.04/1745	φ=06°04'7N λ=096°38'6E						0.003 m ³		<i>[Signature]</i>
20.04/1715	φ=06°05'2N λ=097°49'7E						0.004 m ³		<i>[Signature]</i>
21.04/1750	φ=05°50'2N λ=08°32'9E						0.005 m ³		<i>[Signature]</i>
22.04/1720	φ=07°43'8N λ=077°18'2E						0.004 m ³		<i>[Signature]</i>
23.04/1745	φ=12°02'7N λ=074°28'7E						0.006 m ³		<i>[Signature]</i>
24.04/1800	φ=16°12'1N λ=071°59'7E						0.005 m ³		<i>[Signature]</i>
25.04/1755	φ=19°51'0N λ=069°41'E						0.004 m ³		<i>[Signature]</i>
26.04/1730	φ=23°33'8N λ=066°23'E						0.003 m ³		<i>[Signature]</i>
27.04/1810	φ=24°18'4N λ=061°23'E						0.005 m ³		<i>[Signature]</i>
28.04/1730	φ=26°17'N λ=056°48'E						0.004 m ³		<i>[Signature]</i>
29.04/0530	φ=25°46'2N λ=055°37'E						0.003 m ³		<i>[Signature]</i>
30.04/0800	MOORING A/S JESSE/46						15.28 m ³		<i>[Signature]</i>
01.05/1752	MOORING A/S JESSE/46						0.004 m ³		<i>[Signature]</i>
02.05/1811	MOORING A/S JESSE/46						0.004 m ³		<i>[Signature]</i>
03.05/1805	" " "						0.004 m ³		<i>[Signature]</i>
04.05/1746							0.007 m ³		<i>[Signature]</i>

Master's Signature: *[Signature]*

Date: 04 MAY 2011

5

ARCHITECTURER LA TESTABILITÉ



2. LES OUTILS ADAPTÉS



DU HARDWARE



DU SOFTWARE

```
3  require File.expand_path("../../config/environment", __FILE__)
4  # Prevent database truncation if the database needs cleaning
5  abort("The Rails environment is running in production mode! Please use a
6  require 'spec_helper'
7  require 'rspec/rails'

8
9  require 'capybara/rspec'
10 require 'capybara/rails'

11
12 Capybara.javascript_driver = :webkit
13 Category.delete_all; Category.create
14 Shoulda::Matchers.configure do |config|
15   config.integrate do |with|
16     with.test_framework :rspec
17     with.library :rails
18   end
19 end
20
21 # Add additional requires below this line to support this feature
22
23 # Requires supporting ruby files with custom matchers and helpers
24 # in spec/support/ and its subdirectories. This means that files in
25 # spec/support/**/*.rb will be loaded after those in spec/
26 # run as spec files by default. If you need to define a custom
27 # run twice. It is recommended that you do not name
28 # end with _spec.rb. You can configure this option in your
# option on the command line or in config/environments/development.rb
# mongoid
# buffer
```



3. FIABILITÉ ET MAINTENABILITÉ DES TESTS

FAIL									
------	------	------	------	------	------	------	------	------	------

FAIL									
------	------	------	------	------	------	------	------	------	------

FAIL	FAIL	FAIL	FAIL	PASS	FAIL	FAIL	FAIL	FAIL	FAIL
------	------	------	------	------	------	------	------	------	------

FAIL	FAIL	FAIL	FAIL	PASS	FAIL	FAIL	FAIL	FAIL	FAIL
------	------	------	------	------	------	------	------	------	------



4. TESTS EVERYTHING, EVERYWHERE,
ALL AT ONCE

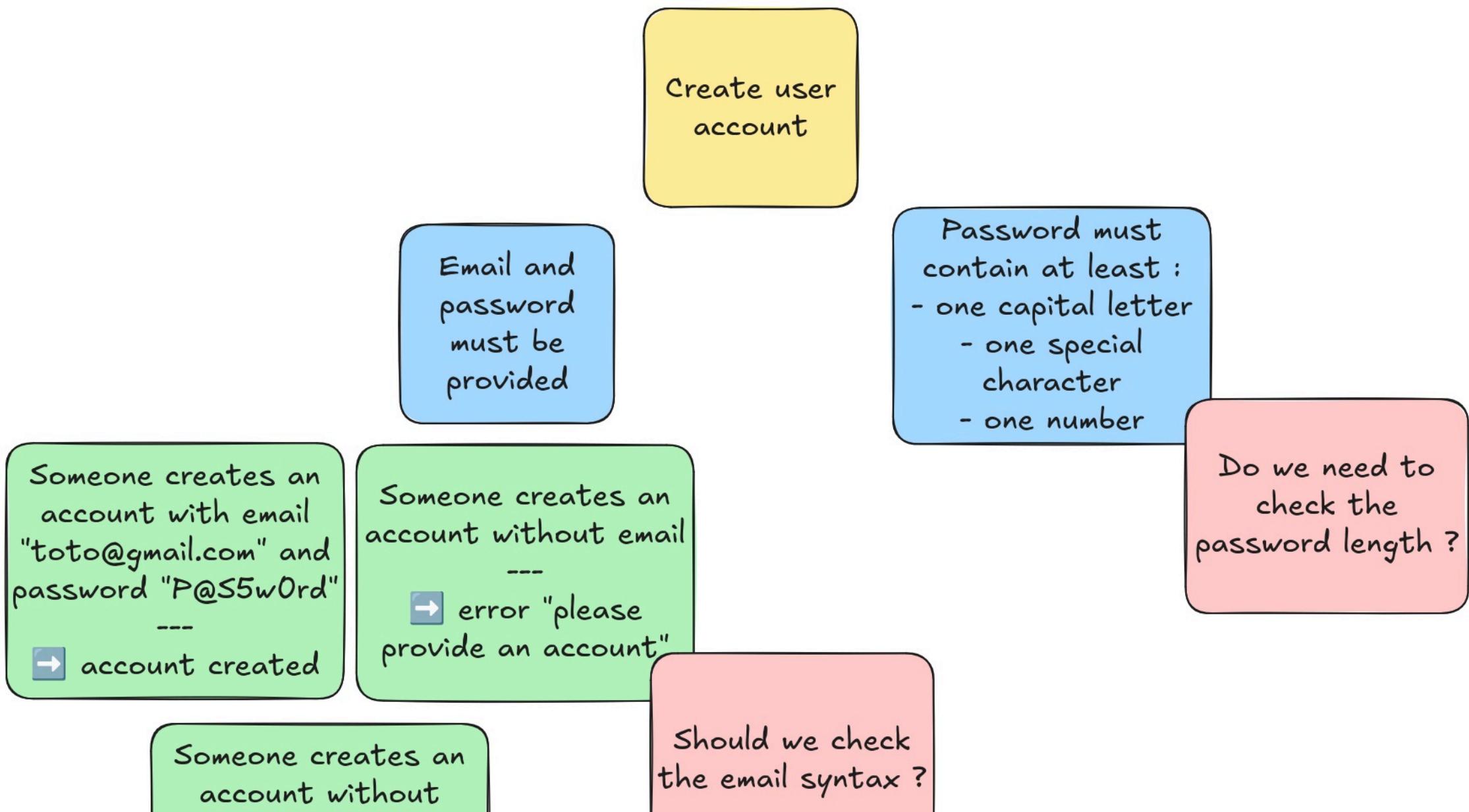
LE TEST EST UN BESOIN



TRES AMIGOS



EXAMPLE MAPPING



BEHAVIOR-DRIVEN DEVELOPMENT

```
LoanDecision.feature* ✘ x
1  Feature: Loan Decision
2  As a bank employee
3  I need to calculate a decision for an individual consumer
4  To grant or reject loan
5
6  Scenario: Positive decision
7      Given an individual customer is aged 18 or older
8      And a customer is UK resident
9      And a customer has held a Lloyds Bank current account for at least one month
10     And a customer has a regular income
11     And a customer is not a full-time student
12     And a customer has no bad credits
13     When a customer applies for a £34,000 loan
14     Then decision should be positive
15
16 Scenario: Negative decision
17     Given an individual customer is aged 18 or older
18     And a customer is UK resident
19     And a customer has held a Lloyds Bank current account for at least one month
20     And a customer has a regular income
21     And a customer is not a full-time student
22     But a customer has 1 bad credit
23     When a customer applies for a £34,000 loan
24     Then decision should be negative
25
26
27
```

LE DANGER DE LA LOI DE CONWAY



AVOIR LES MOYENS DE SES AMBITIONS



A nighttime aerial photograph of a city. In the background, a massive fire is engulfing a building, with intense orange and yellow flames and thick smoke billowing into the sky. The city below is illuminated by streetlights and building lights, with various colors of lights reflecting on the water and buildings. The foreground shows a dense urban area with many buildings and some greenery.

5. MAITRISER LES DÉFAUTS ENVOYÉS EN PRODUCTION

ACCEPTER DE FAIRE DES ERREURS



OPTIMISER LA COLLECTE D'INFORMATIONS

Configuration

Parameters are displayed in bold when their value is not the factory setting

Key	Value	Description
Electrical settings		
iMaxDeratingSwCapacity	16	iMax derating software
IMaxEvseCapacityTE	10	iMax on socket
Metering		
GridType	1	Type of Grid wiring (1: 3 phases with neutral, 2: 3 phases without neutral)
MidProtocol	1	MID protocol (1: RTU, 2: TCP)
MidSlaveld	247	MID slave id
MidTCPGatewayAddress	192.168.0.130	MID TCP gateway
MidTCPPort	502	MID TCP port
PhasesConnection	4	Phases connection (1: TRI123, 2: TRI231, 3: TRI312, 4: MONO1, 5: MONO2, 6: MONO3)
PowerMeterSystem	2	Powermeter system (1: internal card, 2: MID)
Authentication		
Restriction	1	Restriction mode (1: Free mode, 2: Lock cable, 3: Private, 4: Public, 5: All badges)
ConnectionTimeOut	60	Connection timeout in sec
Energy Management		
EmSystem	0	EM system (0: None, 1: Universal, 2: TIC)
ILimitedPowerTIC	16	TIC limited iMax
ModeTIC	0	TIC mode about peak hours (0: None, 1: Suspended, 2: Limited)
TicStdContract		Tic contract name (std)
TicType	0	Tic type (0: Historic, 1: Standard)
UnivContractVal	16	Universal protocol contract
UnivProtocol	1	Universal protocol (1: RTU, 2: TCP)
UnivSlaveld	30	Universal protocol slave id
UnivTCPGatewayAddress	192.168.0.130	Universal protocol TCP gateway
UnivTCPPort	502	Universal protocol TCP port
Digital inputs		

6. INVESTIR DANS LES TESTS AUTOS

SCALING



RISQUE



121

No. Of Executions

524

Avg Passed Tests

41

Avg Failed Tests

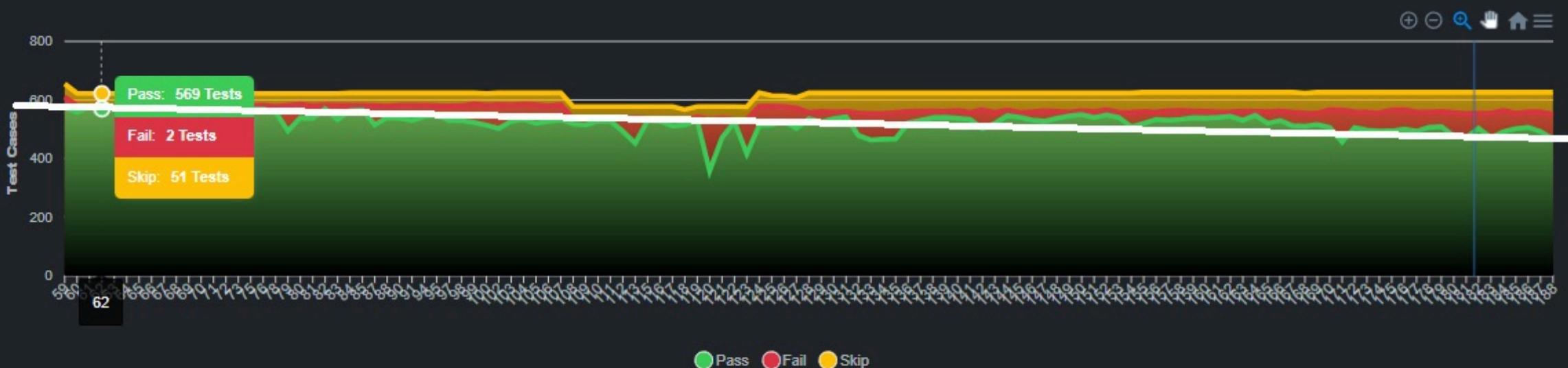
54

Avg Skipped Tests

-29

New Tests

Test Trend



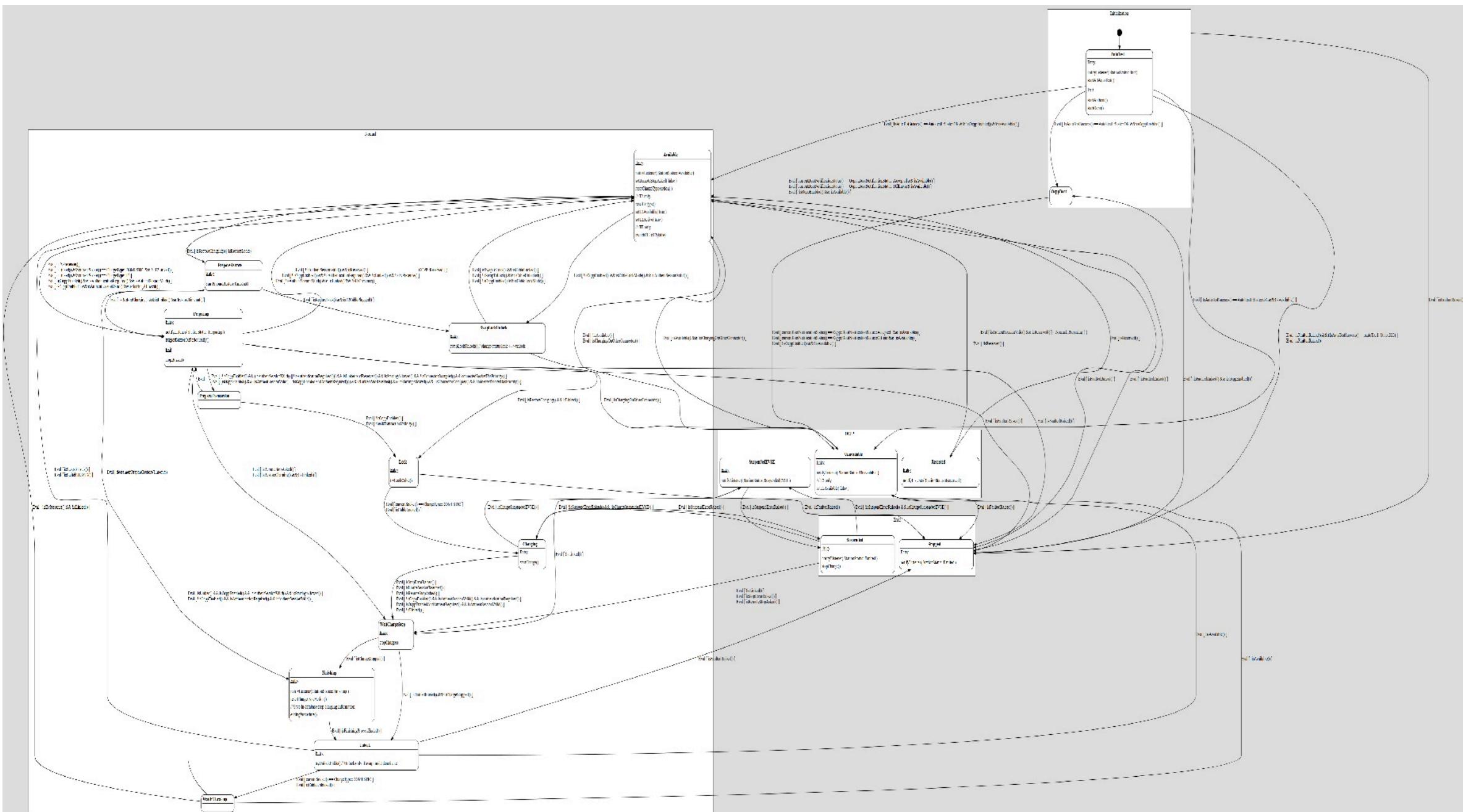


7. LES NIVEAUX DE TEST

PYRAMIDE ?



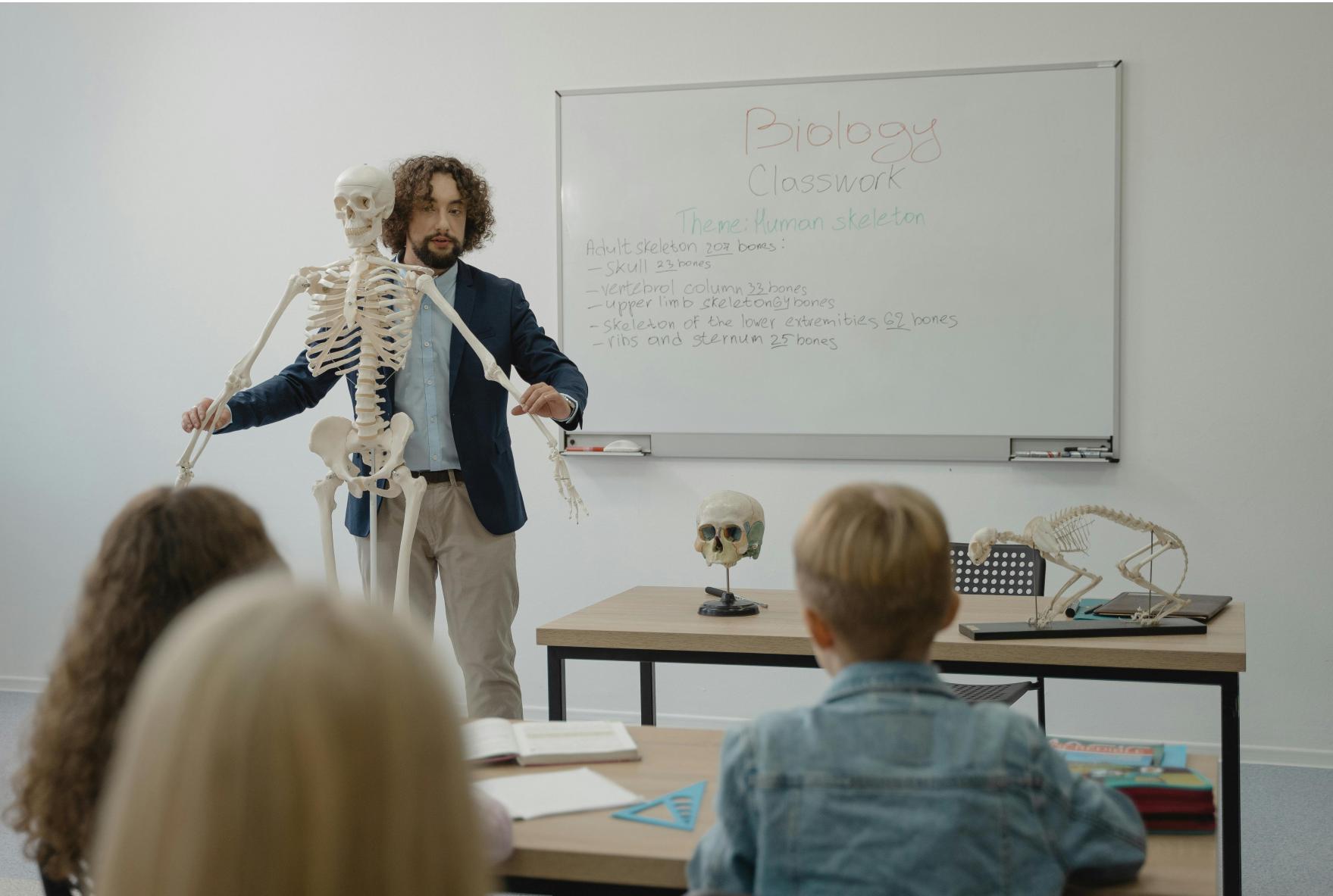
8. CONFIANCE D'ALLER VITE



A photograph of Spider-Man in his iconic red and blue suit, crouching on a ledge and reading a comic book. The background is a blurred cityscape at sunset. A large, semi-transparent black rectangular box covers the middle portion of the image, containing the text.

9. APPRENDRE

AGILITÉ



DORA : APPRENDRE À APPRENDRE





OFF LIMIT

10. RETOUR SUR INVESTISSEMENT ?

DIFFICILE DE TESTER



TANT PIS



OU CHOISIR DE RESTER MANUEL



CONCLUSION

Manifesto for Agile Software Development

TESTING

testing

We are uncovering better ways of developing software by doing it and helping others do it.

Through this work we have come to value:

Individuals and interactions over processes and tools ✓

Working TEST over comprehensive JIRA

PO/DEV/TEST collaboration over "PAS MON PROBLÈME"

Responding to change over following a TEST plan

That is, while there is value in the items on the right, we value the items on the left more.

POUR ALLER + LOIN

- [DORA Core Model - Get better at getting better](#)
- [\[Livre\] Team Topologies - Organizing for fast flow of value](#)
- [\[Livre\] Michael feathers - Working effectively with legacy code](#)
- [\[Talk\] Arnaud Langlade - Example Mapping](#)
- [\[Podcast\] If This Then Dev #327 - Fiabiliser l'usine logicielle, avec Geoffrey Berard + sa version compilée "#327.exe" avec Louis Pinsard](#)
- [\[Podcast\] Developer Experience Opionated #3 - Comment penser les tests logiciels en 2025, avec Antoine Craske](#)
- [\[Podcast\] QG Qualité - Le QE Score chez Carrefour, avec Simon Champenois](#)
- [l'IA pour le test](#)

CRÉDITS PHOTOS

- Photo de Almir reis sur Pexels: <https://www.pexels.com/fr-fr/photo/ruines-de-la-cite-antique-de-machu-picchu-au-perou-29059114/>
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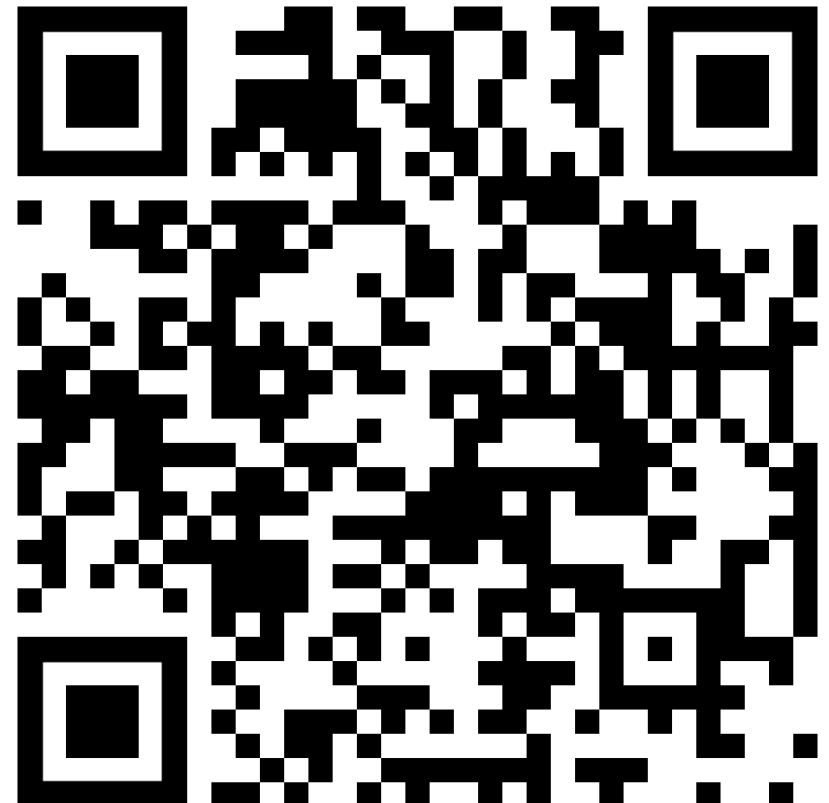
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QUESTIONS

Slides

<https://github.com/Lenormju/talk-test-auto-agile/>



OpenFeedback

<https://app.roti.express/r/ag2025-13>



RAPPELS DES 10 POINTS

1. Code testable et architecture testable
2. Avoir des outils adaptés
3. Maintenir des tests fiables
4. Test everything, everywhere
5. Maîtriser les défauts envoyés en prod
6. Investir dans les tests autos
7. Les niveaux de test
8. Avoir la confiance d'aller vite
9. Apprendre
10. Estimer le ROI



UN LAPIN !

ABSTRACT

Il est assez facile de voir comment l'Agilité permet d'aller vite, mais la Qualité ne découle pas aussi clairement de ses Valeurs ("Des logiciels opérationnels plus qu'une documentation exhaustive") et ses Principes ("Un logiciel opérationnel est la principale mesure d'avancement"). On pensait en avoir fini avec le cycle en V, mais est-ce que garder le test comme une étape successive du dev n'est pas perpétuer les mêmes causes d'un même échec ?

On voudrait vous présenter une vision différente du Test, et surtout de comment l'intégrer à nos processus Agiles :

- l'intégrer très en amont (#ShiftLeftTesting), par exemple dès le raffinement du besoin (#ExampleMapping et #BDD) ou lors de la phase de conception (#TestableDesign),
- anticiper les besoins techniques (#TestOps),
- éviter les défauts (#RightTheFirstTime et #Lean).

Venez découvrir (au-delà des #buzzwords) d'autres approches du test, en partant de cas réels, et en cherchant toujours comment, concrètement, assurer un bon niveau de qualité sur nos projets.