

October, 2016

BDD in a DevOps Team

Adonis Celestine

ABOUT THE SPEAKER



Adonis Celestine

Adonis has more than 11 years of industry experience in Software Testing. He has good expertise on Software Test automation and consultation.

Adonis is passionate about test innovations and making testing simpler and more interesting. You'll usually find Adonis talking about quality and how it affects the whole development process.



email: adonis.sheeban@gmail.com



0617468887



in Adonis Celestine



AUTOMATION PROBLEMS – LET'S FACE IT

What are you testing

Technology changes & responsive design

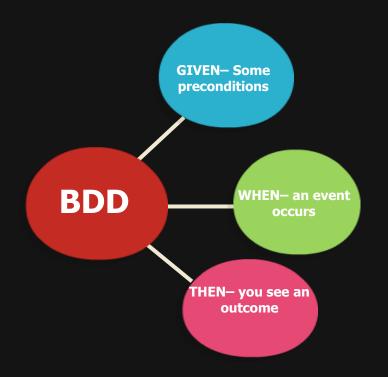
Something light and free

Repeatable test cases

Test Reporting



BEHAVIOUR DRIVEN DEVELOPMENT



A programmers mind

Travel("market");
If(isPresent("egg")){
 buyMilk(6);
} else {
 buyMilk(1);
}



THE PROBLEM ABOUT BEING A PROGRAMMER

My mom said:

"Honey, please go to the market and buy 1 bottle of milk. If they have eggs, bring 6"

I came back with 6 bottles of milk.

She said: "Why the hell did you buy 6 bottles of milk?"

I said: "BECAUSE THEY HAD EGGS!!!!"

More Collaboration



Automated Acceptance Tests

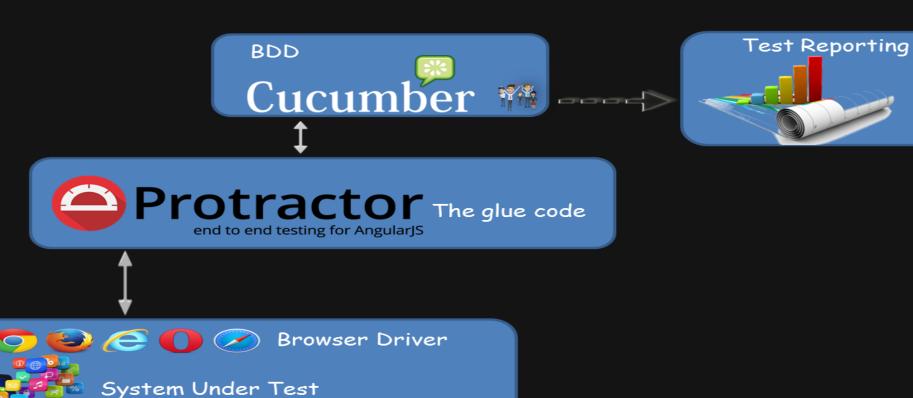


Faster & High Quality





THE FRAMEWORK



Angular locators



ng-binding, ngrepeat, ngtextarea, ng-model , WaitForAngular

Multi browser capabilities



E2E Test the whole chain





CUCUMBER & PROTRACTOR

The Feature file

Feature: Check the weather

Scenario Outline: Check the weather of Amsterdam

and Riga

Given I open weather.com

When I type <cityName> in the search box

And I click search

Then I must be able to see the weather <overview>

Examples:

|cityName|overview|

| Amsterdam, Netherlands | Hourly |

|Riga,Latvia|Hourly|

The glue code

```
this.Given(/^I open weather\.com$/, function (callback) {
   browser.get("http://www.weather.com").then(callback);
});

this.When(/^I type (.*) in the search box$/, function (cityName,callback) {
   browser.element(by.id("search").sendKeys(cityName).then(callback);
});
```

Feature: Descriptive text of what is desired

Scenario Outline: Some determinable business situation

Given some precondition
And some other precondition
When some action by the actor

And some other action

And some other action

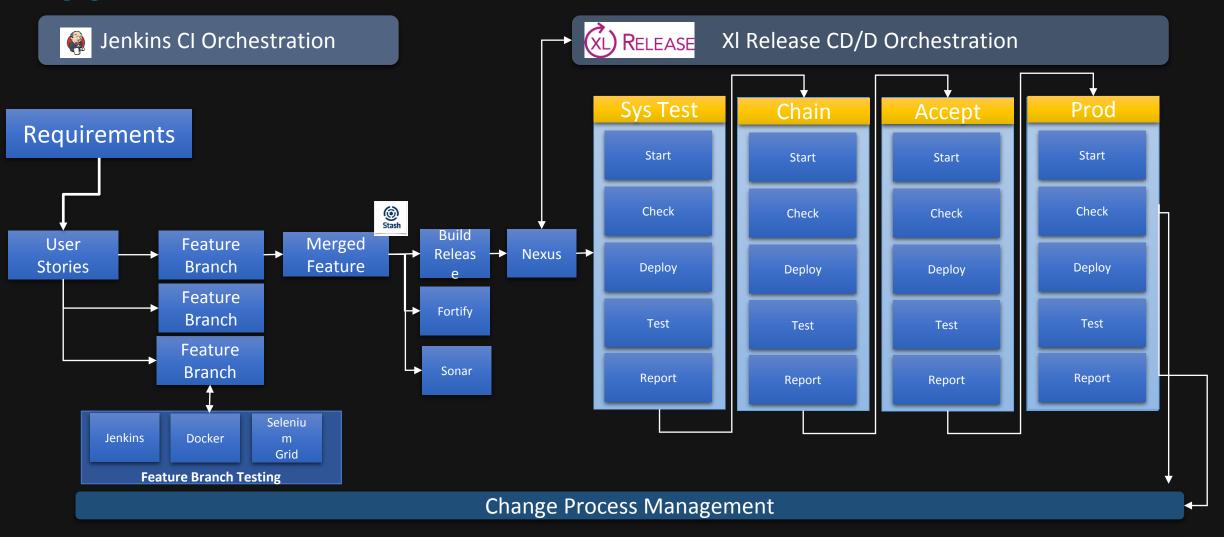
Then some testable outcome is achieved And something else we can check happens too

Examples:

Test Data



OUR PIPELINE

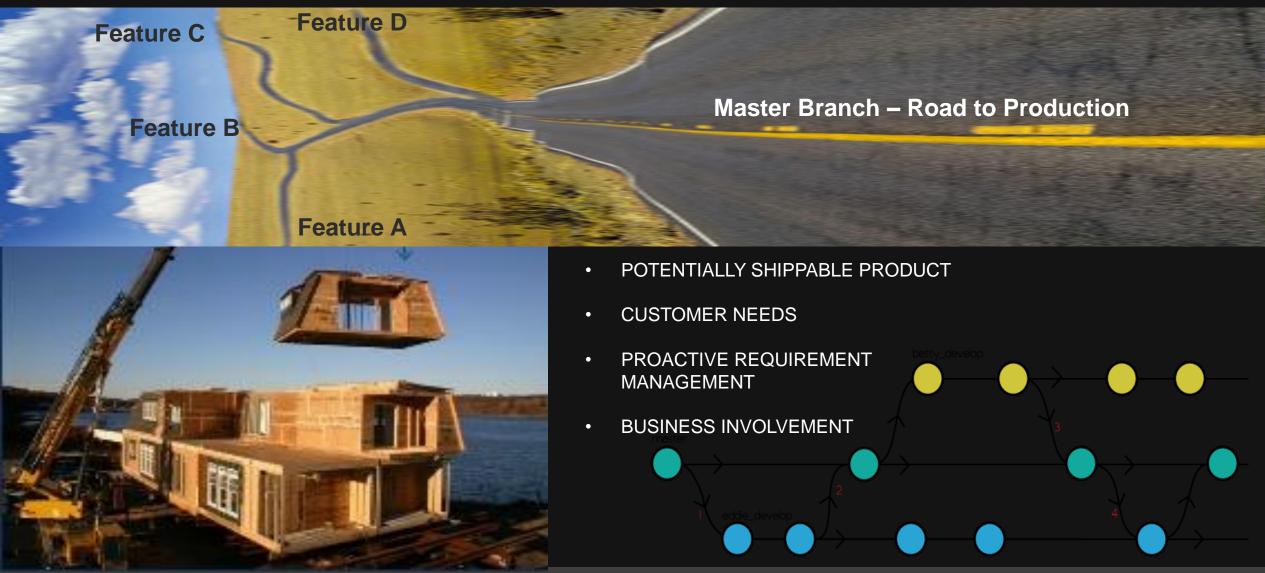




Monitoring & Dashboard Reporting



FEATURE BASED DEVELOPMENT



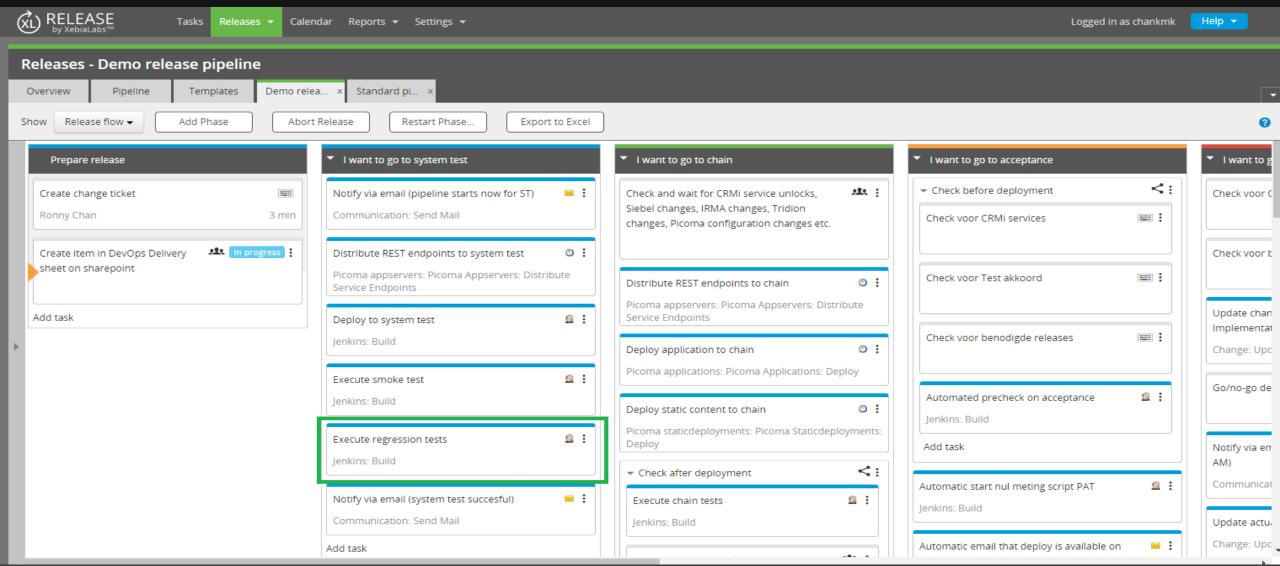
WHAT IS A PULL REQUEST?

"None of us is as smart as all of us"

- Code Review Done
- Feature Accepted by Product Owner
- Feature is Production Ready



RELEASE ORCHESTRATION





REPORTING & MONITORING



Back To Jenkins

Back To Overview



Feature Result for Build: 2

Below are the results for this feature:

Feature: Account Holder withdraws cash

As an Account Holder

I want to withdraw cash from an ATM

So that I can get money when the bank is closed

Scenario Outline: Account has sufficient funds

Given the account balance is 100

And the card is valid

And the machine contains 100

When the Account Holder requests 20

Then the ATM should dispense 20

And the account balance should be 80

And the card should be returned

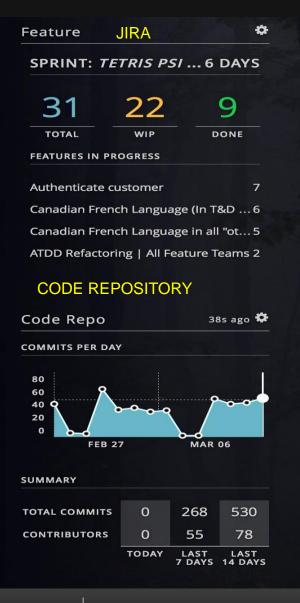
Feature Statistics

Feature	Scenarios	Steps	Passed	Failed	Skipped	Status
Feature: Account Holder withdraws cash	1	7	7	0	0	passed

Cucumber-JVM Jenkins Report Plugin - 2012-04-10 16:34:50 +0100



DEVOPS DASHBOARD - HYGIEIA





Monitor	1s ago 🕏			
No services co	onfigured			
DEPLOYMEN	NT STATUS			

Deploy 12m ago 🌣								
-	DEV6	6d ago	38 ♠	0 💠				
4	DEV7	6h ago	73 🛧	0 🔸				
2	QA3	16h ago	180 🛧	0 🔸				
26	DEV2	5h ago	691 🛧	0 🔸				
~	QA4-A	5h ago	80 🛧	0 🔸				
~	QA4-B	Feb 23	30 🛧	0 🗣				
~	QA1	Feb 23	36 ♠	0 🗣				
~	QA2	8h ago	48 🛧	0 🗣				
~	DEV3	3d ago	8 🛧	0 🗣				
~	DEV4	Feb 7	2 🛧	0 🔸				
~	DEV5	5h ago	16 🛧	0 🗣				
~	DEV8	Feb 25	4 🛧	0 🗣				
~	DEV9	1d ago	12 🛧	0 🗣				
~	PERF1	1d ago	72 🛧	0 🗣				
~	PERF2	Jan 16	8 🛧	0 🗣				
~	PERF3	Jan 16	24 🛧	0 🗣				
~	PERF4	Jan 16	8 🛧	0 🛧				
2	PERF-A	Dec 12	36 ♠	0 🛧				
2	PERF-B	Nov 3	32 🛧	0 🛧				
~	PROD-A	5h ago	320 🛧	0 🗣				
-								



CHALLENGES

BDD is a mindset

Huge learning curve

Documenting requirements

Large scenarios with multiple steps





THANK YOU!

For Your Attention

