



BDD – Behaviour Driven Development

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> ULABORATILE BUSIN RATER STORE

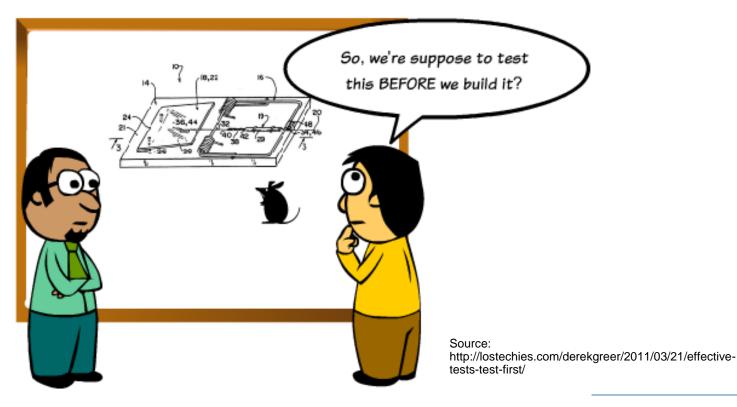


BDD in a nutshell

It is an evolution in the thinking behind TDD (Test Driven Development) and Acceptance Tests Driven Planning

It brings together strands from TDD (Test Driven Development) and Domain Driven Design into an integrated whole

Source: http://behaviour-driven.org/





I had a problem. While using and teaching agile practices like test-driven development (TDD) on projects in different environments, I kept coming across the same confusion and misunderstandings

Programmers wanted to know where to start, what to test and what not to test, how much to test in one go, what to call their tests, and how to understand why a test fails.

My response is behaviour-driven development (BDD).



Source: http://dannorth.net/introducing-bdd/



As a [X] I want [Y] so that [Z]

in ubiquitous language!

As a customer, I want to withdraw cash from an ATM, so that I don't have to wait in line at the bank.

A story's behaviour is simply its acceptance criteria – if the system fulfills all the acceptance criteria, it's behaving correctly; if it doesn't, it isn't. So we created a template to capture a story's acceptance criteria.

Source: http://dannorth.net/introducing-bdd/



Given some initial context (the givens), *When* an event occurs, *Then* ensure some outcomes.

Scenario 1: Account is in credit

Given the account is in credit And the card is valid And the dispenser contains cash When the customer requests cash Then ensure the account is debited And ensure cash is dispensed And ensure the card is returned

Scenario 2:

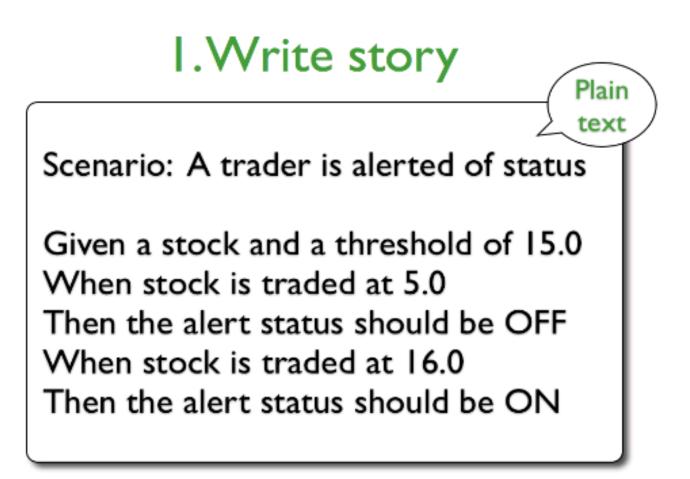
Account is overdrawn past the overdraft limit

Given the account is overdrawn And the card is valid When the customer requests cash Then ensure a rejection message is displayed And ensure cash is not dispensed And ensure the card is returned

Source: http://dannorth.net/introducing-bdd/

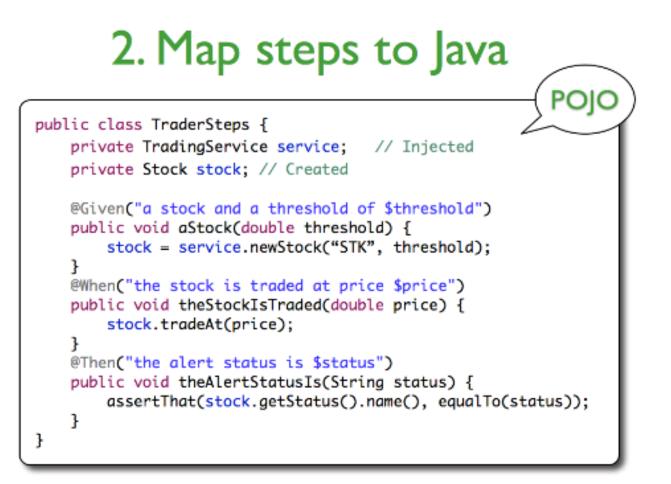






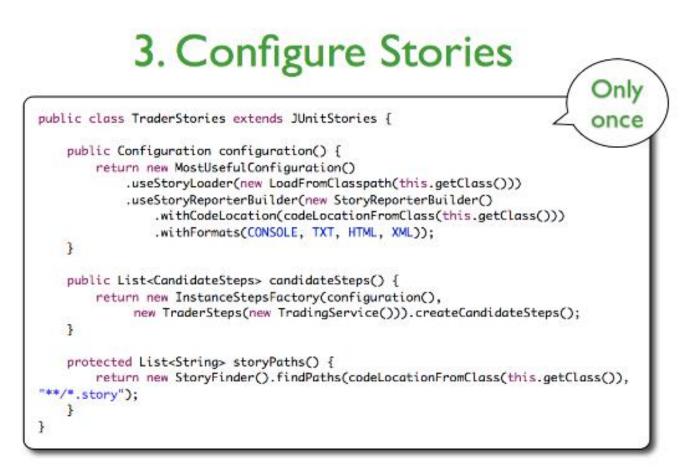






















ΗΤΜΙ

5.View Reports



Story Reports

Stories		Scenarios				Steps						View
Name	Not Allowed	Total	Successful	Failed	Not Allowed	Total	Successful	Pending	Not Performed	Failed	lgnored	
Stack Scenarios	0	2	2	0	0	11	11	0	0	0	0	stats∣html
1	0	2	2	0	0	11	11	0	0	0	0	Totals

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JBehave © 2003-2010





Given a stock of <symbol> and a <threshold> When the stock is traded at <price> Then the alert status should be <status>

Examples:

symbol	threshold	price	status
STK1	10.0	5.0	OFF
STK1	10.0	11.0	ON



- Business and Technology should refer to the same system in the same way Its all behaviour
- Any system should have an identified, verifiable value to the business Wheres the business value
- Up-front analysis, design and planning all have a diminishing return Enough is enough



• It is important to keep BDD distinct from TDD. These two practices are equally important but address different concerns and should be complementary in best development practices.

• BDD is concerned primarily with the specification of the behavior of the system under test as a whole, thus is particularly suited for acceptance and regression testing. TDD is concerned primarily with the testing of a component as a unit, in isolation from other dependencies, which are typically mocked or stubbed.

• BDD should talk the language of the business domain and not the language of the development technology, which on the other hand is "spoken" by TDD.

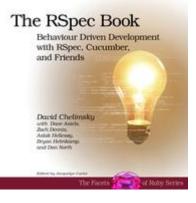


Sources, References and more...

- 1. Dan North, Introducing BDD, http://dannorth.net/introducing-bdd/
- BDD Wiki, http://behaviour-driven.org/ 2.
- 3. JBehave, http://jbehave.org/
- RSpec, http://rspec.info/ 4.
- Cucumber, http://cukes.info/ 5.
- Dan North, Deliberate Discovery, **6**. http://dannorth.net/2010/08/30/introducing-deliberatediscovery/
- Dan North, Programming is not a craft, 7. http://dannorth.net/2011/01/11/programming-is-not-a-craft/ & Martin Fowler http://martinfowler.com/bliki/CraftmanshipAndTheCrevasse .html
- Liz Keogh's blog, http://lizkeogh.com/ 8.









Vielen Dank für Ihre Aufmerksamkeit!

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Programming is not a craft - Opposition to Software Craftmanship

The software shouldn't be at the center of a programmer's world, instead a programmer should focus on the benefit that the software is supposed to deliver.

Martin Fowler

I would love to see someone rewrite the Software Craftsmanship Manifesto in terms of getting results and delighting customers.

Dan North

I don't want "steadily adding value," I want "amazing their customers every day!" Software craftsmen should be egoless, humble, with a focus on the outcome rather than the code or the process.

Dan North

... refactoring to oblivion while failing to deliver, focusing on test coverage while the company continues to leak money, worrying about the latest testing tool while failing to talk to stakeholders, or insisting that no one can interrupt their two-week sprint once they've made a commitment ...

Liz Keogh

