Writing better BDD scenarios

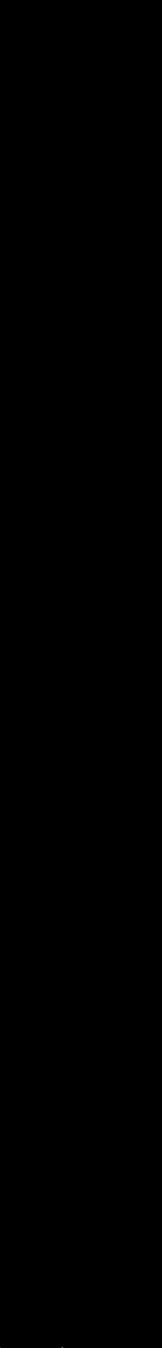
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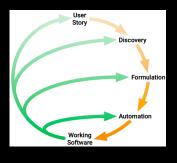
Twitter:@ sebroseBlog:https://cucumber.io/blog/E-mail:seb.rose@smartbear.com

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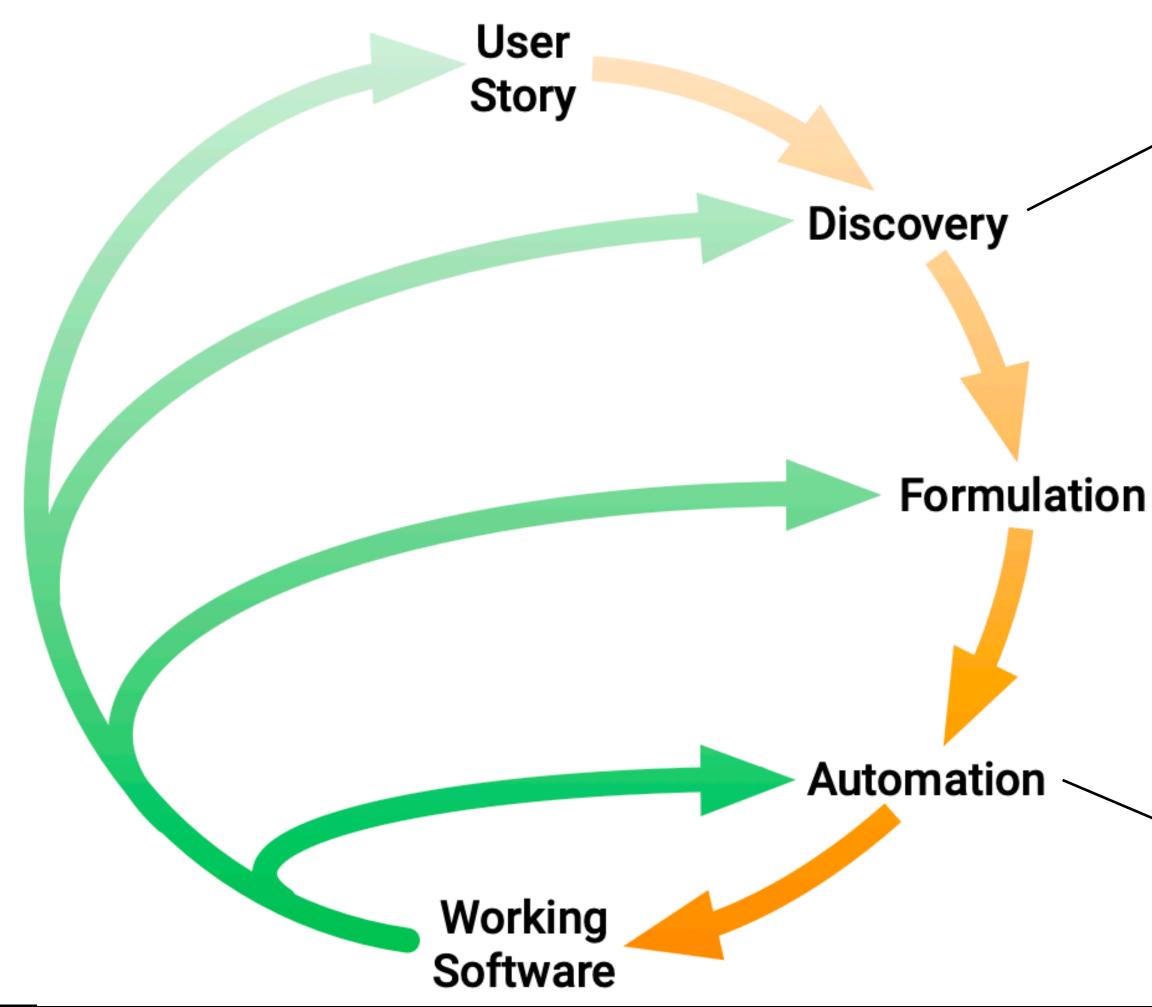
Agenda

- Short introduction to BDD
- Exercise: Learn about good/bad scenarios
- Acronym & heuristics
- Exercise: Write your own scenario
- Wrap-up





Define BDD



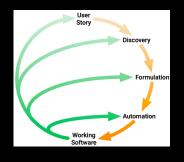
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https://cucumber.io/docs/bdd/



Example map



Rule

Example

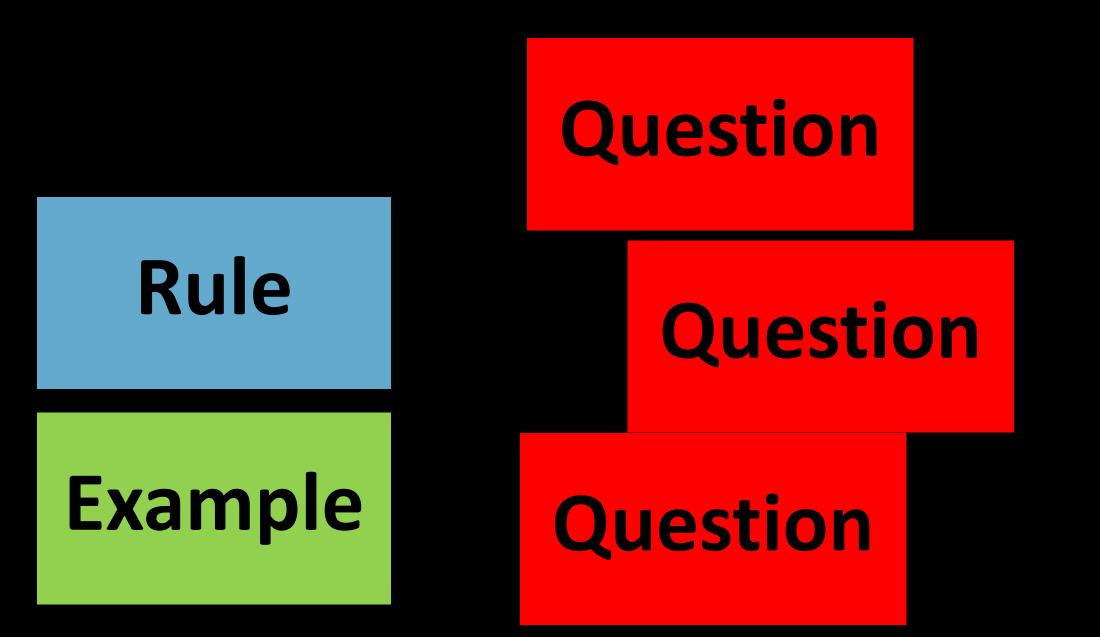
Example



Example

Example

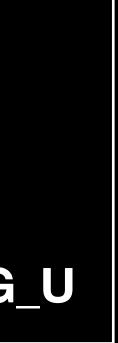
Example

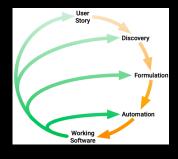


Introducing Example Mapping

https://cucumber.io/blog/2015/12/08/examplemapping-introduction

https://www.youtube.com/watch?v=VwvrGfWmG_U





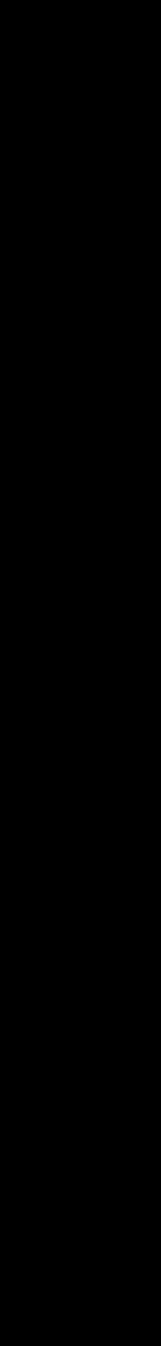
Synonyms

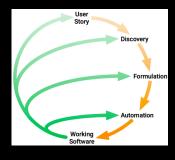
Requirement

Rule

Acceptance criterion

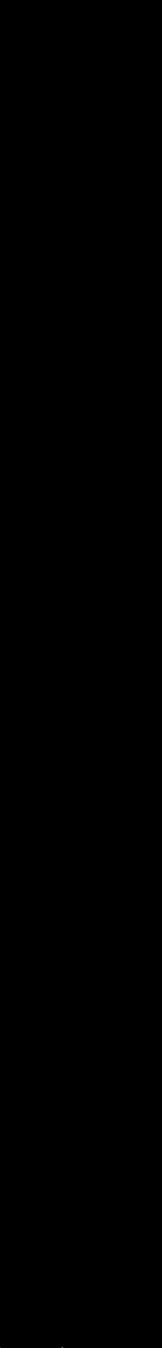
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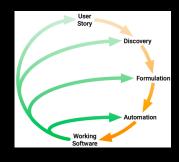




A sample rule

The customer can change the delivery address of an order until it has been dispatched.





A sample example map

Change delivery address

Within delivery area

Address is changed within area Address change is accepted

Address is changed outwith area Address change is rejected

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Pizza is in oven Address change is accepted

Pizza is awaiting dispatch Address change is accepted

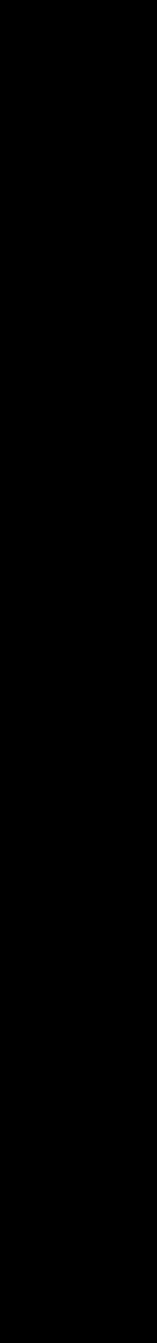
Pizza has been dispatched Address change is rejected

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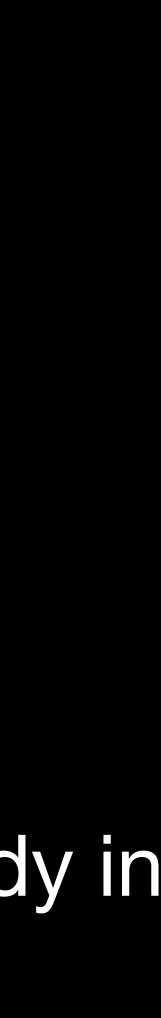
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大 ScenarioA

Scenario: USERNAME SHOULD BE UNIQUE Given a user "Marvin" is in the database And I navigate to http://myapp.com And I click on "Register" And I fill in "Username" with "Marvin" And I fill in "Password" with "1234" When I click on "Submit registration" Then "ValidationSummary" should be visible

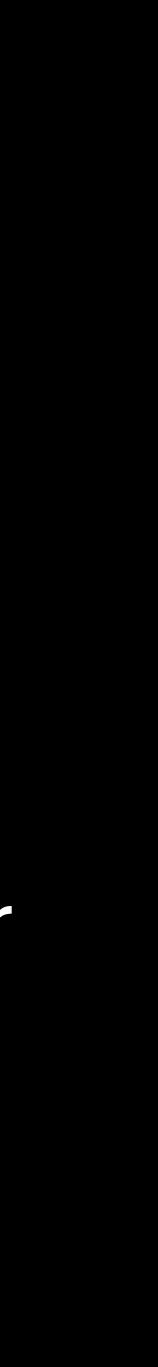
- And "ValidationSummary" should contain "Username already in





Given there is a registered user called "Marvin" When a customer registers as "Marvin"

Scenario: Duplicate username error message displayed Then they should see the "Username already in use" error





Scenario: DELIVERY ADDRESS CHANGE Given I have placed an order When I change the delivery address Then I should receive a confirmation And the estimated arrival time should be updated

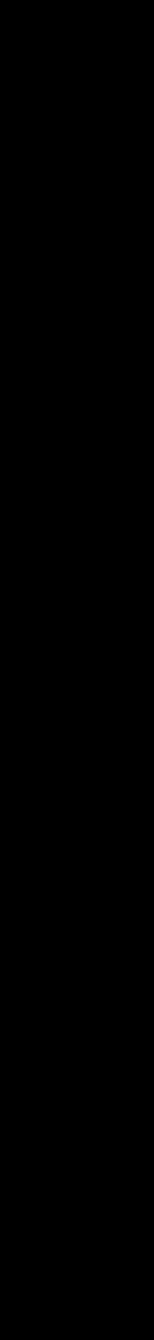
- And the delivery person should be notified about the new addr

次 Scenario B - suggestion

Scenario: Customer notified of change of address Given a customer has placed an order for delivery When they change the delivery address

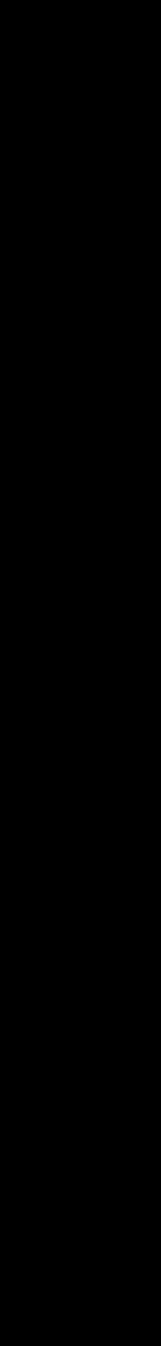
Given a customer has placed an order for delivery When they change the delivery address

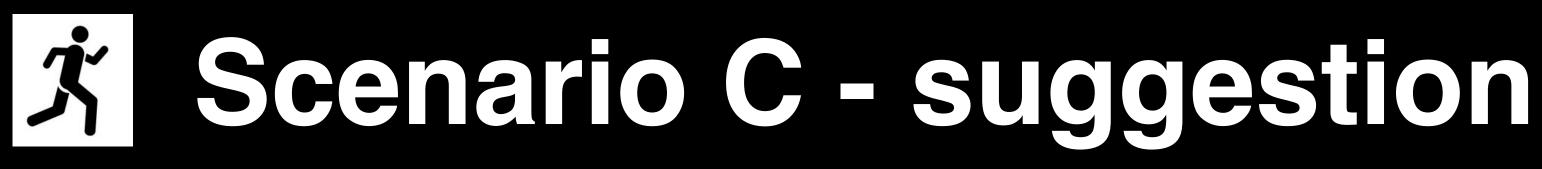
- Then they should receive a confirmation of the change
- **Scenario:** Delivery person notified of change of address Then the delivery person should be notified of the change



ぶ Scenario C

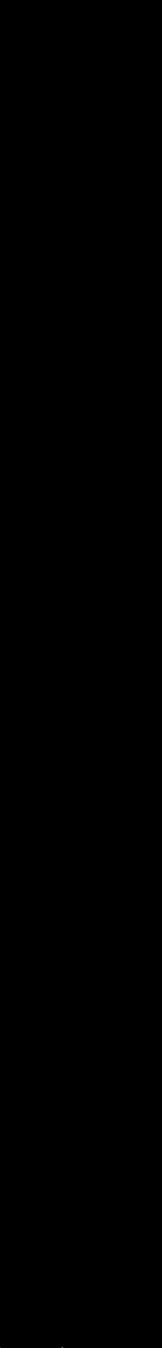
Scenario: CLIENT RECEIVES ORDER NOTIFICATION Given I visit Geek Pizza shop site And I browse for "Margarita" pizza And I add the pizza to the basket And I proceed to checkout And I enter delivery address And I enter payment details When I confirm the order Then I should receive an order notification





When a customer places an order for delivery Then the delivery person should receive an order notification

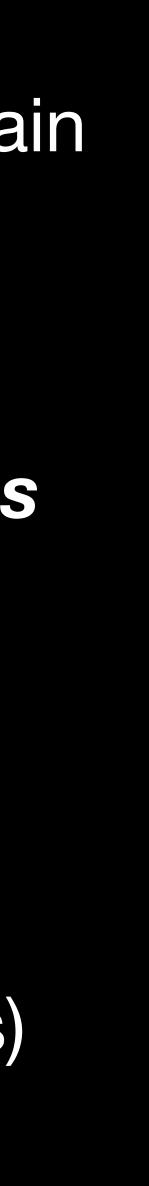
Scenario: Delivery person notified of change of address



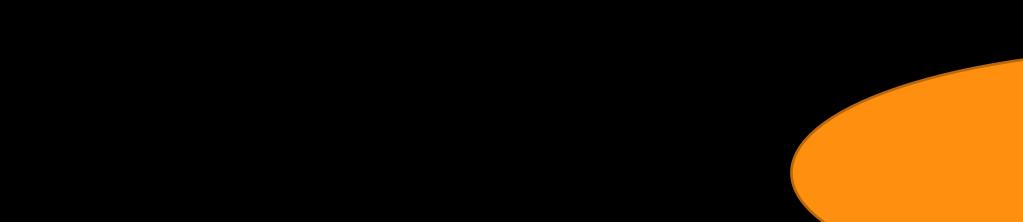


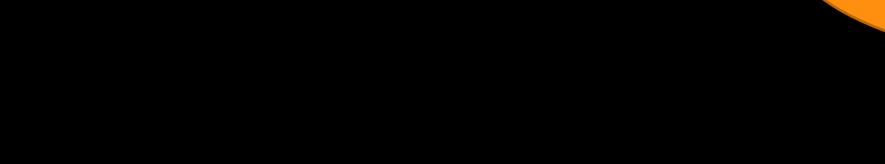
- Business readable terminology drawn from business domain
- Real data - use concrete data for clarity
- Intention revealing reveal intent, don't describe mechanics
- Essential - remove incidental details
- each scenario illustrates a single rule Focused
 - keep scenarios short (less than 6 steps)
 - https://cucumber.io/blog/bdd/keep-your-scenarios-brief-(1)/

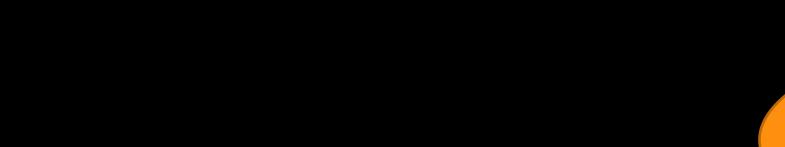
BRIEF

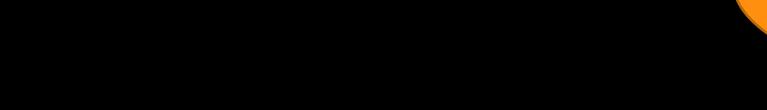


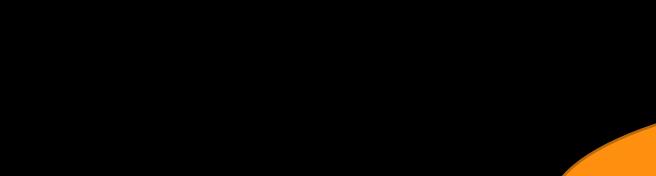














"Marvin" already registered

Customer registers as "Marvin"

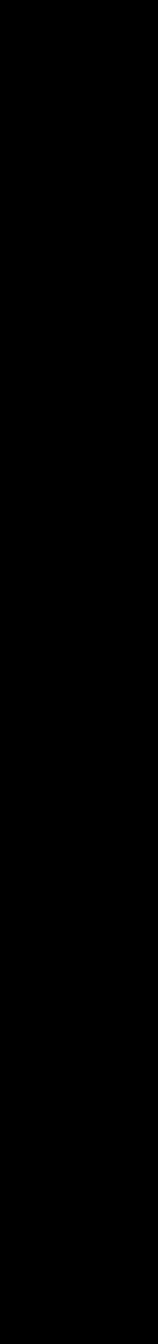
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Observation of the second sec • Give it a name - "The one where..."

- One rule per scenario
- Write it upwards: Then, When, Given
- Single When per Scenario
- Write Given steps in past tense
- What, not how. No UI in steps (click, fill in)
- Max 5 steps per scenario
- Omit the obvious (Given app is open)
 - Be deterministic (no "or")
- Make sure it can fail @sebrose





Wrap up

Discovery and Formulation are discrete practices

BDD is a collaborative design/ development approach

Formulated examples are documentation

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Keep your documentation BRIEF

Gherkin can be used for testing but that's not BDD

Ease-ofautomation should not influence the documentation







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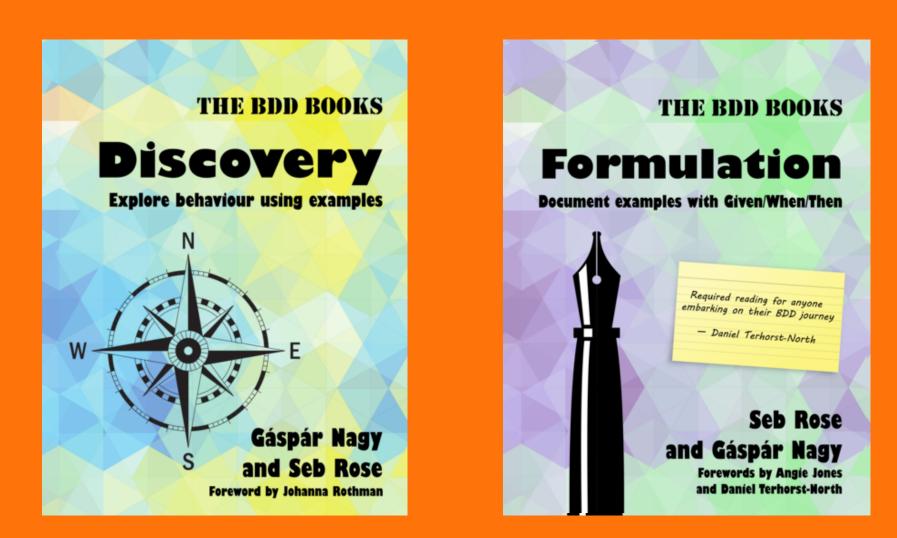
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