

Java: BDD with Cucumber and Gherkin

Getting Started

OVERVIEW OF BEHAVIOUR-DRIVEN DEVELOPMENT AND CUCUMBER



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Overview



What problem does BDD solve?

The BDD process

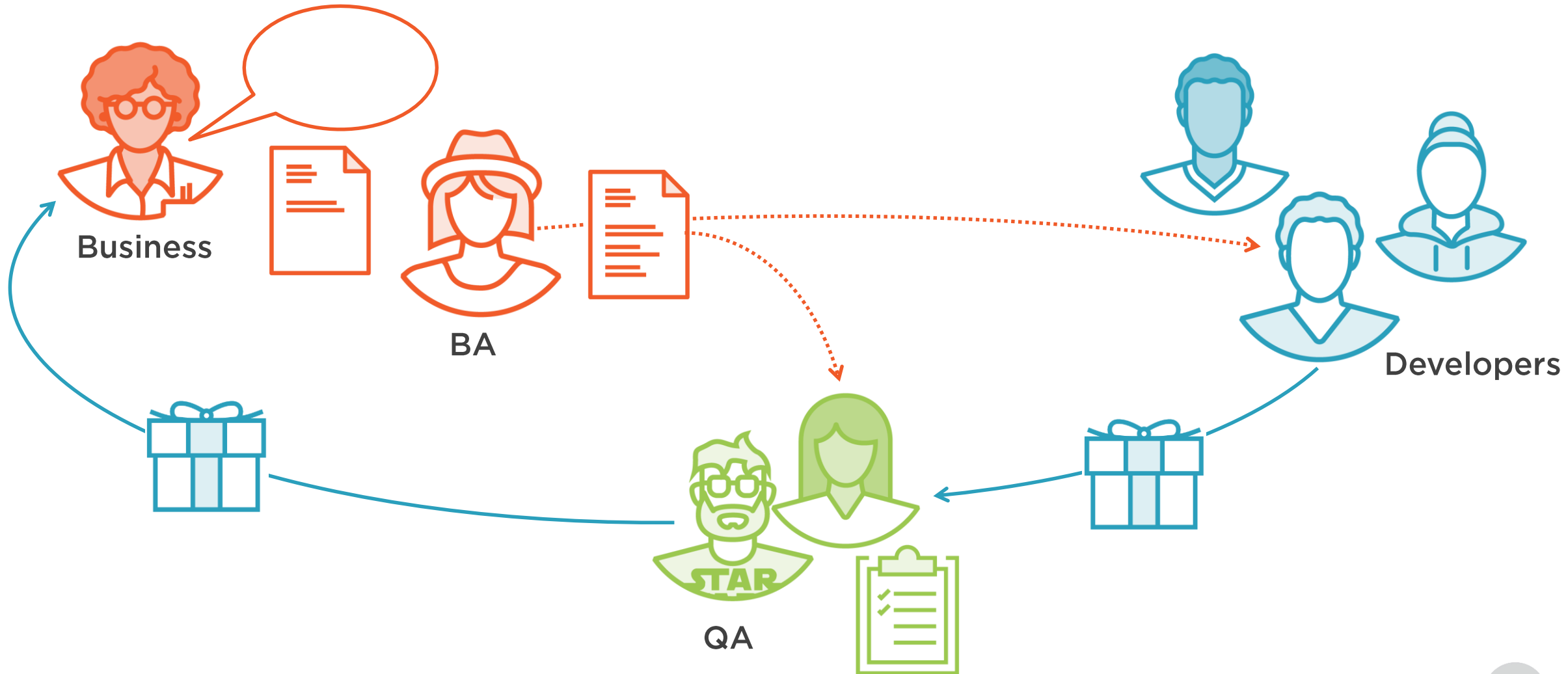
The role of Cucumber and Gherkin

Executable specifications

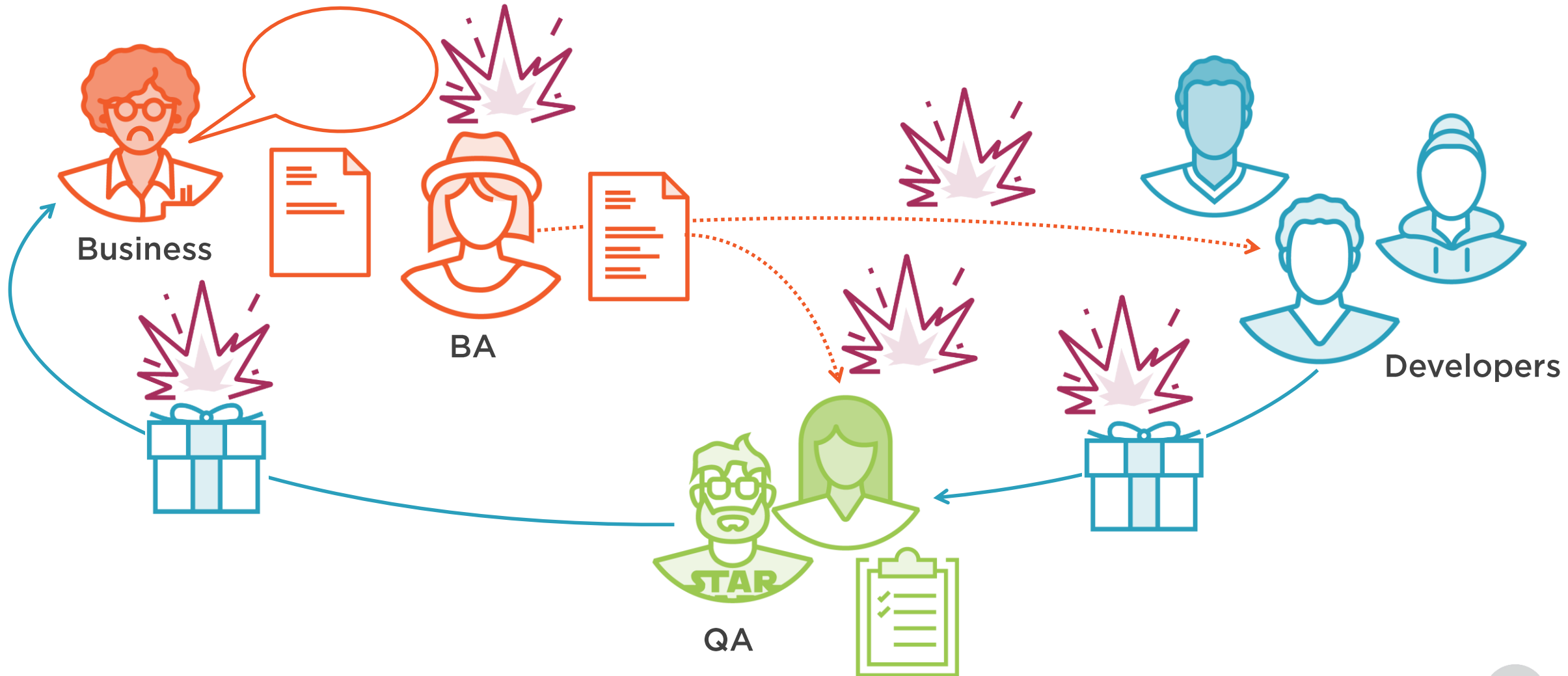




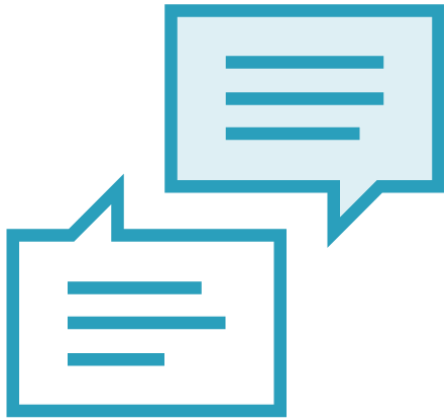
What Problem Does BDD Solve?



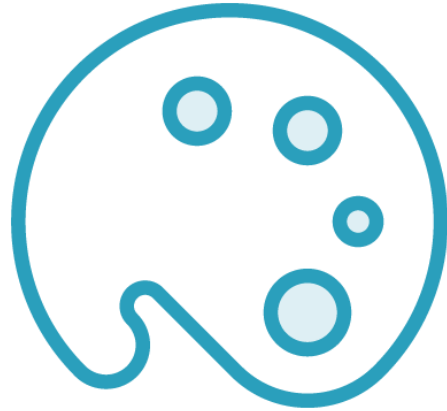
What Problem Does BDD Solve?



What Is Behavior-driven Development?



**Collaboration
and
conversation**



**Concrete
examples and
business rules**



**A common
language and a
shared
understanding**



**Faster feedback
through early
and effective
automation**

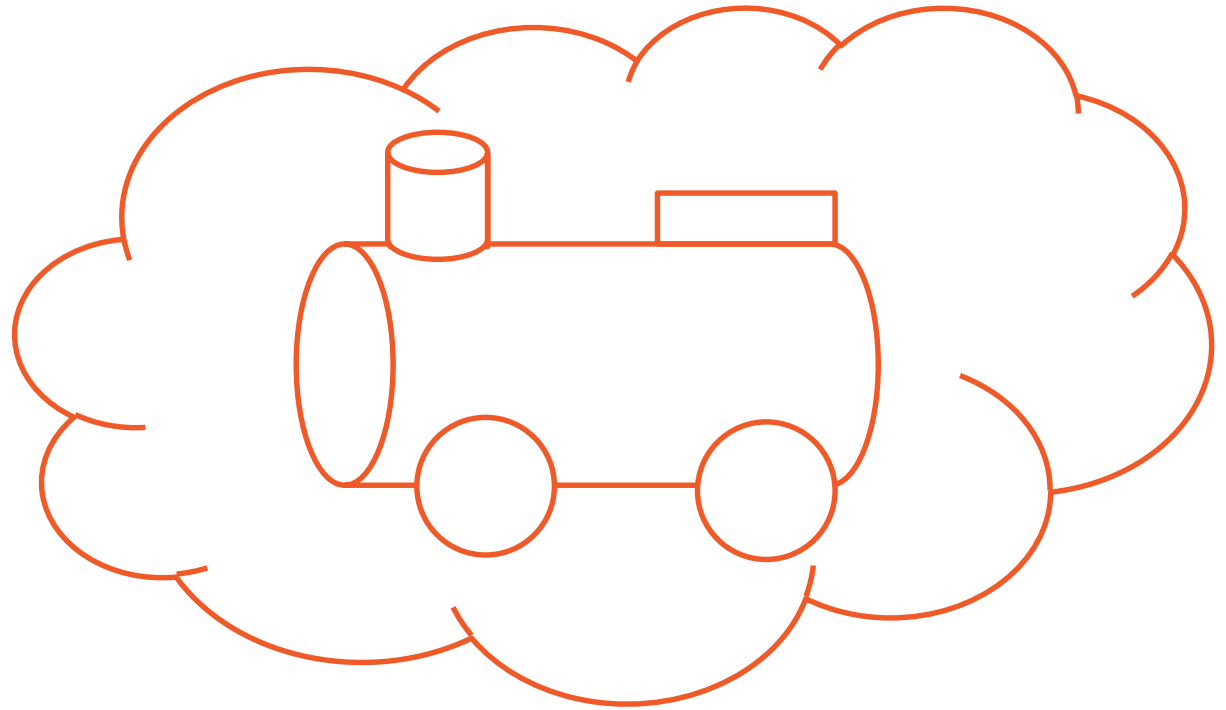




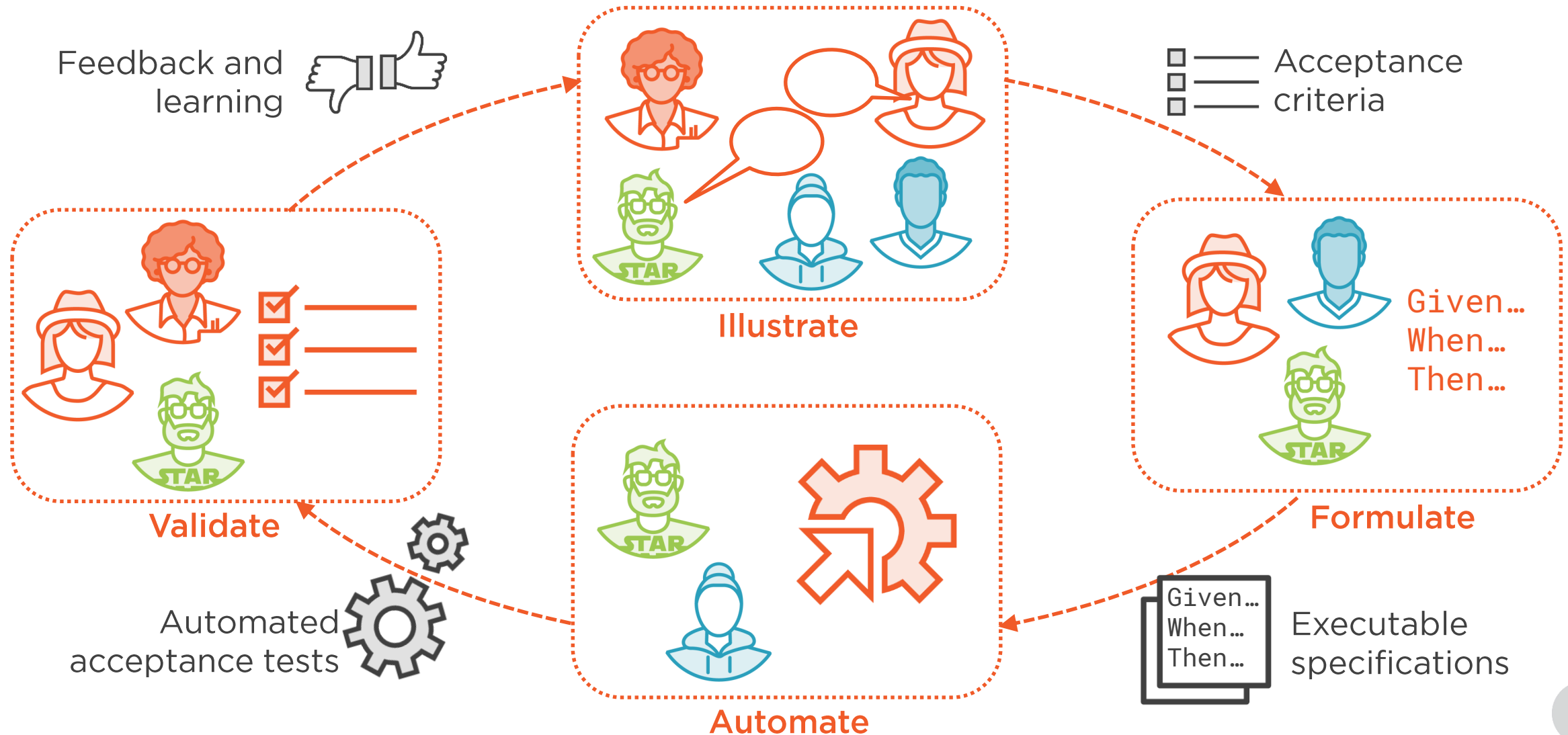
BDD starts with a conversation



The BDD Process



The BDD Process



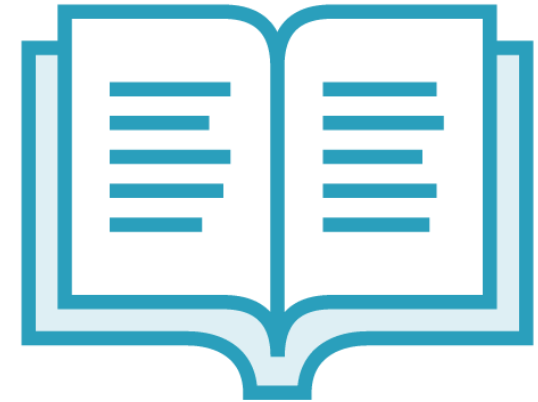
A Single Source of Truth



Specifications



Automated
acceptance tests



Functional
documentation

BDD Benefits



Be agile, don't just “do” agile



Bridge the communication gap



A deep shared understanding of business needs



BDD Benefits



A more engaged and creative team



Faster feedback



Fewer defects





What is Gherkin?

- A business-readable notation for executable specifications

What is Cucumber?

- Software you use to run executable specifications written in Gherkin

Gherkin: Executable Business Language

Feature: Viewing upcoming orders
In order to plan my morning routine
As a Morning Freshness customer
I want to the status of my upcoming orders

Scenario: Michael views his current orders
Given Michael is a Morning Freshness member
And he has ordered a "Green Goodness Smoothie"
When he views his upcoming orders
Then he should see the following orders:

Order	Status	
Green Goodness Smoothie	Ordered	

Plain English

Business readable

Executable



Gherkin: Executable Business Language

Feature: Viewing upcoming orders

In order to plan my morning routine

As a Morning Freshness customer

I want to the status of my upcoming orders

Feature

Scenario: Michael views his current orders

Given **Michael** is a Morning Freshness member

And he has ordered a "**Green Goodness Smoothie**"

When he views his upcoming orders

Then he should see the following orders:

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Scenario

Given

When

Then



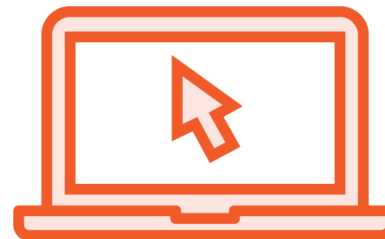
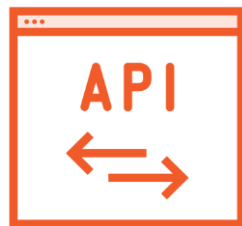
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Gherkin

```
@Given("(.*") is a Morning Freshness member")
public void a_morning_freshness_member(String name) {
    registerAMorningFreshnessMember.named(name);
}
```

Cucumber



Application



Demo



Executing Cucumber scenarios

- A Cucumber Java project
- Running Cucumber scenarios in IntelliJ



Summary



What have you learned?

- BDD is a collaborative practice
- Gherkin is a business-readable language you use to write requirements (or executable specifications)
- Executable specifications act as requirements, tests, and documentation
- Cucumber helps you automates your executable specifications

