

# Decoupling your Spring boot Microservices

With an open source workflow engine

# Orchestrating Spring Boot Microservices (In order to get coffee quickly)

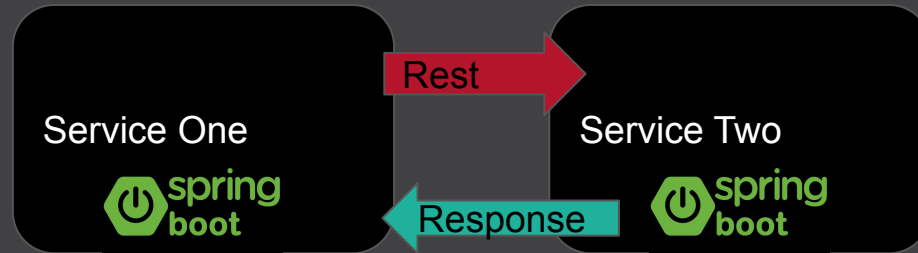
With an open source workflow engine



Niall Deehan

Grifty Winters

# A Classic Distributed System



# A Classic Distributed System

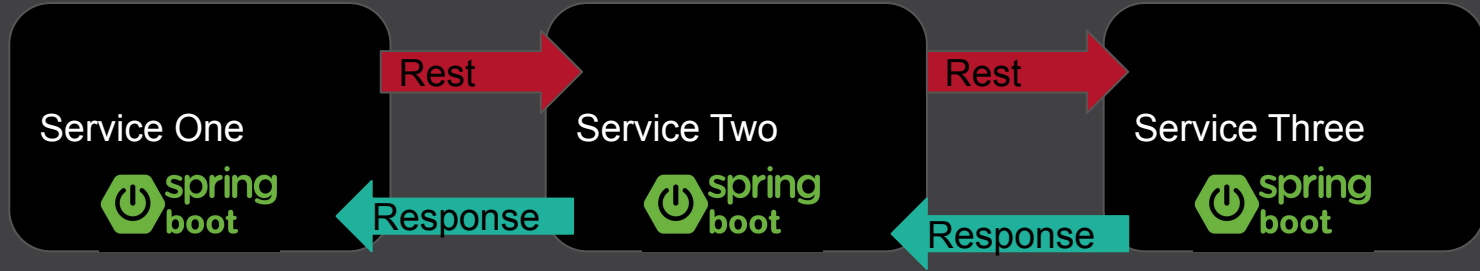




Photo by [John Ingle](#)





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*Congratulations! You've got a coffee*

Who's next?



## Things to think about?

- Barista takes a break
- Order is taking while
- “We don’t do mochachinos”

# *Starbucks does not use two-phase commit*

[Gregor Hohpe](https://www.enterpriseintegrationpatterns.com/ramblings/18_starbucks.html)

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# The System of Kaffee und Kuchen



*Demo!*

<https://github.com/NPDeehan/kaffee-und-kuchen>



*Lets Make some changes to our system*

# What needs to change?



- Retry
- Timeout
- Callback to Cashier
- Versioning
- Error Handling

*Live coding!*

<https://github.com/NPDeehan/kaffee-und-kuchen>

## Lets deal with the issues

- What happens if the barista is taking a quick break?
  - Hold State until the barista is back
- What happens if the order is taking too long?
  - Let the customer know we're still working on it
- What happens if the order can't be completed for business reasons - not technical reasons?
  - BPMN Error event!





## Things to think about?

- Barista takes a break
- Order is taking while
- “We don’t do mochachinos”

*Live coding!*

<https://github.com/NPDeehan/kaffee-und-kuchen>



## What did we Achieve

- Better throughput
- Better error handling
- Scale better
- Visualization
- Timer(?)
- Saga(?)

# What needs to change?



- Retry
- Timeout
- Callback to Cashier
- Versioning
- Error Handling

*Visualization!*



# start.camunda.com

## Start Camunda BPM

Group \*

com.example.workflow

Artifact \*

my-project

Camunda BPM Version \*

7.11.0



Spring Boot Version

2.1.8.RELEASE

Database \*

H2



Java Version (8 to 12) \*

10

Camunda BPM Modules

REST API

Webapps

Spring Boot Modules

Security

Web

Admin Username

admin

Admin Password

•••••

GENERATE PROJECT

EXPLORE PROJECT



# THE END



Mario Fusco   
@mariofusco

Typical conclusion of a technical talk

Speaker: Questions?

...

Embarrassing silence

...

Speaker: ok, I'm done

Applause

Attendees approach speaker to ask questions privately

Please don't be shy. If answer is interesting for you, very likely it will be for many others

[#Devoxx](#)