YOW! 2023

Melbourne | Brisbane | Sydney

CONTRACT-DRIVEN DEVELOPMENT

TURN YOUR API SPECIFICATION INTO EXECUTABLE CONTRACTS

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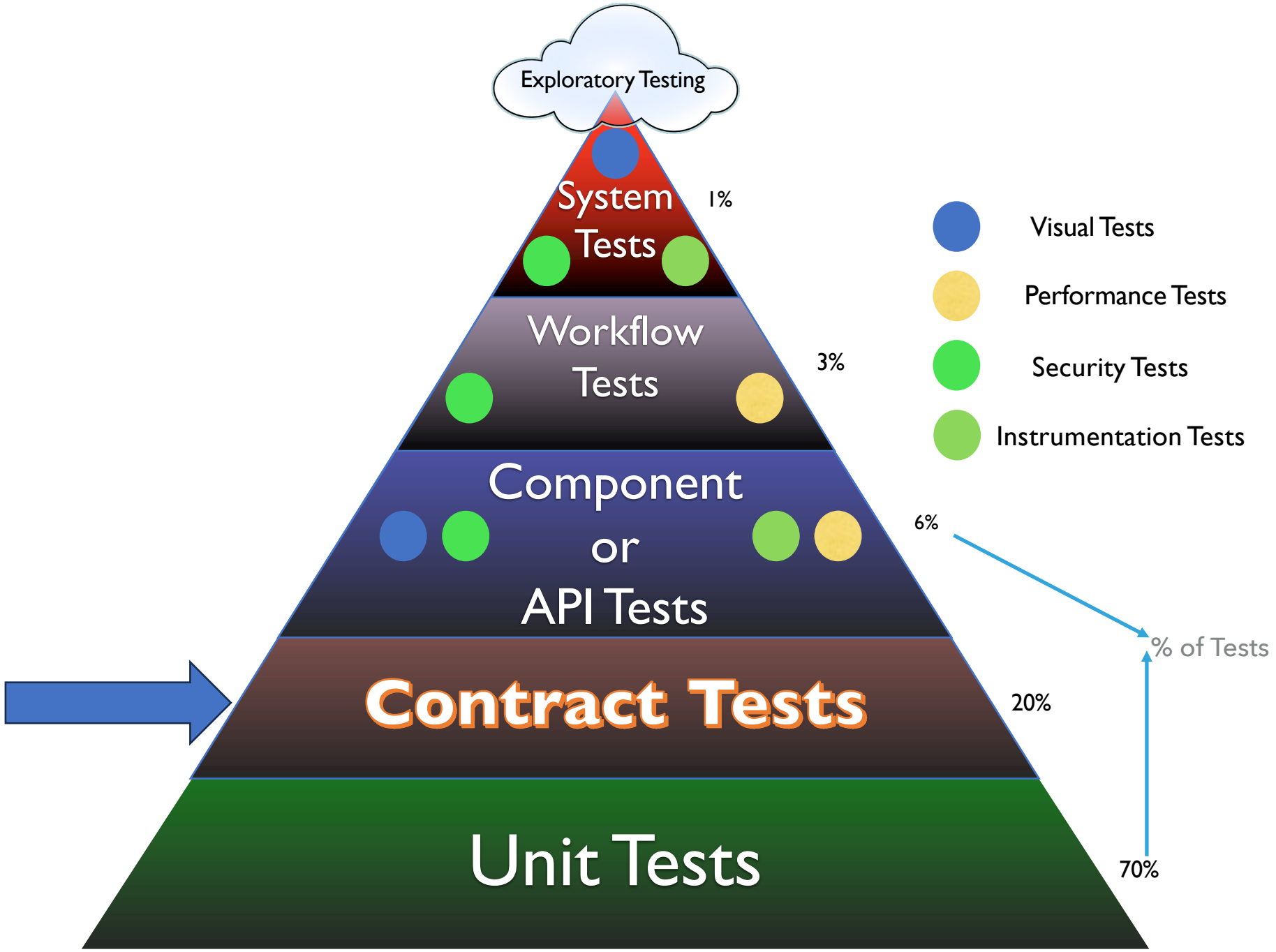
Founder/CEO of Specmatic & Xnsio

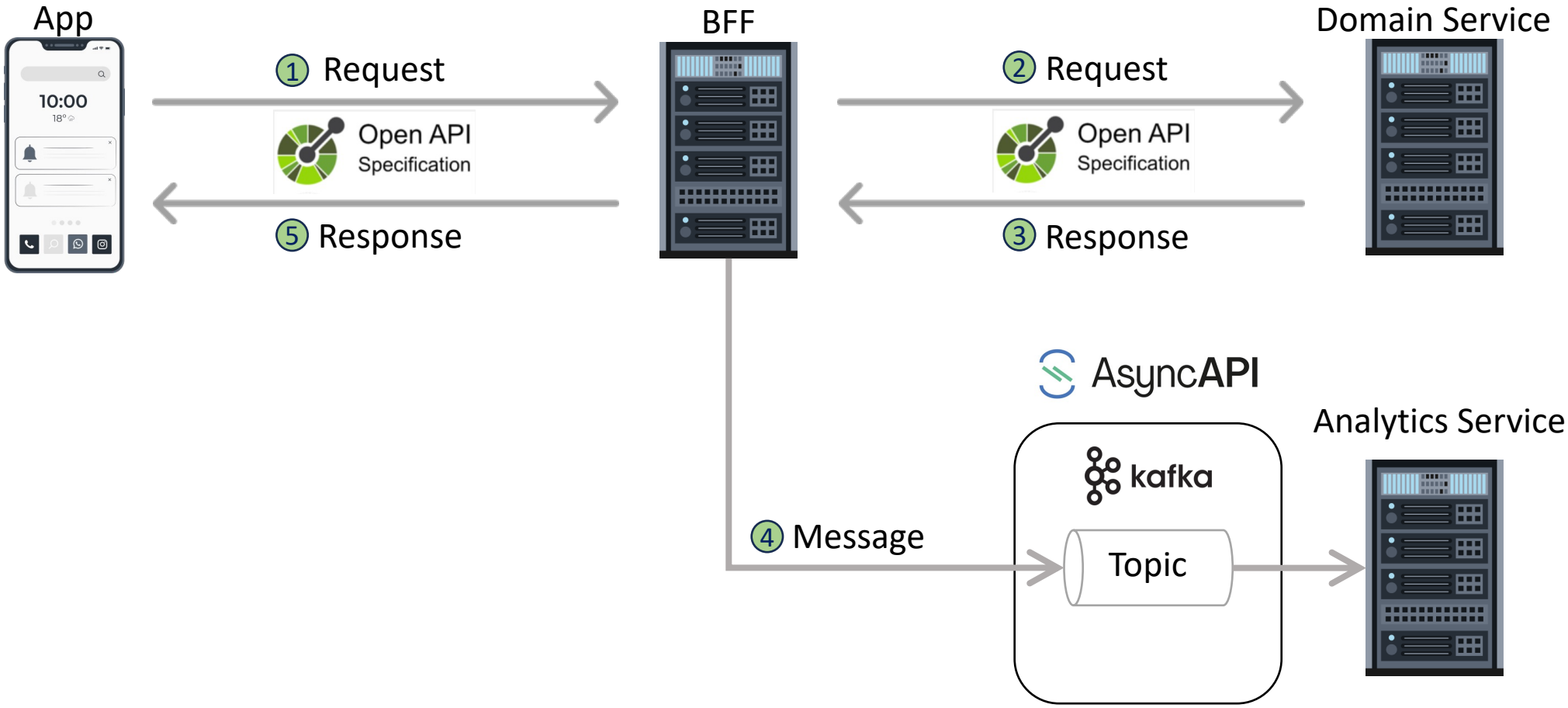
Creator of ConfEngine & Agile India

xnsio EXPANDING SENSE

Specmatic


Exploratory Testing
System Tests
1%
Workflow Tests
3%
Component or API Tests
6%
Contract Tests
20%
Unit Tests
70%
% of Tests
Visual Tests
Performance Tests
Security Tests
Instrumentation Tests

Demo Application Architecture



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Live Demo

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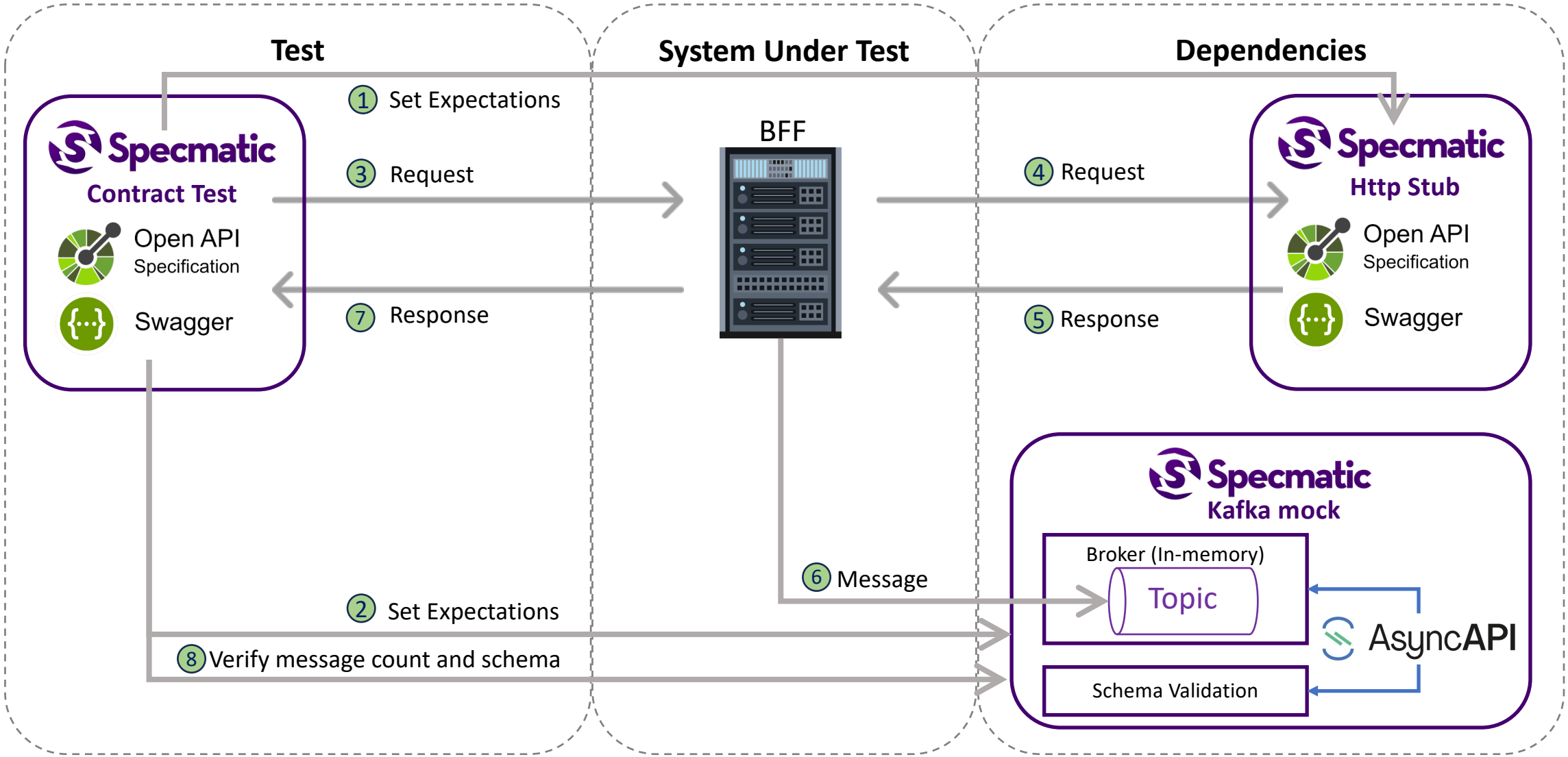
Test Mode – Contract Test Setup



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AsyncAPI Contract Test Report

products-v2.yaml

Success Rate 100% | Failed 0 | Errors 0 | Skipped 0 | Total Time 2.14s | Total Tests 10

createProduct Pass

0.429s

Step 1. Product.createProduct.commandRequest …

```
{
  "payload" : {
    "body" : {
      "name": "XYZ Fone",
      "type": "gadget",
      "inventory": 10
    },
    "parameters" : { }
  },
  "headers" : {
    "REPLY_CHANNEL" : "Product.createProduct.commandReply",
    "CORRELATION_ID" : "1903839"
  }
}
```

Step 2. Product.createProduct.commandReply …

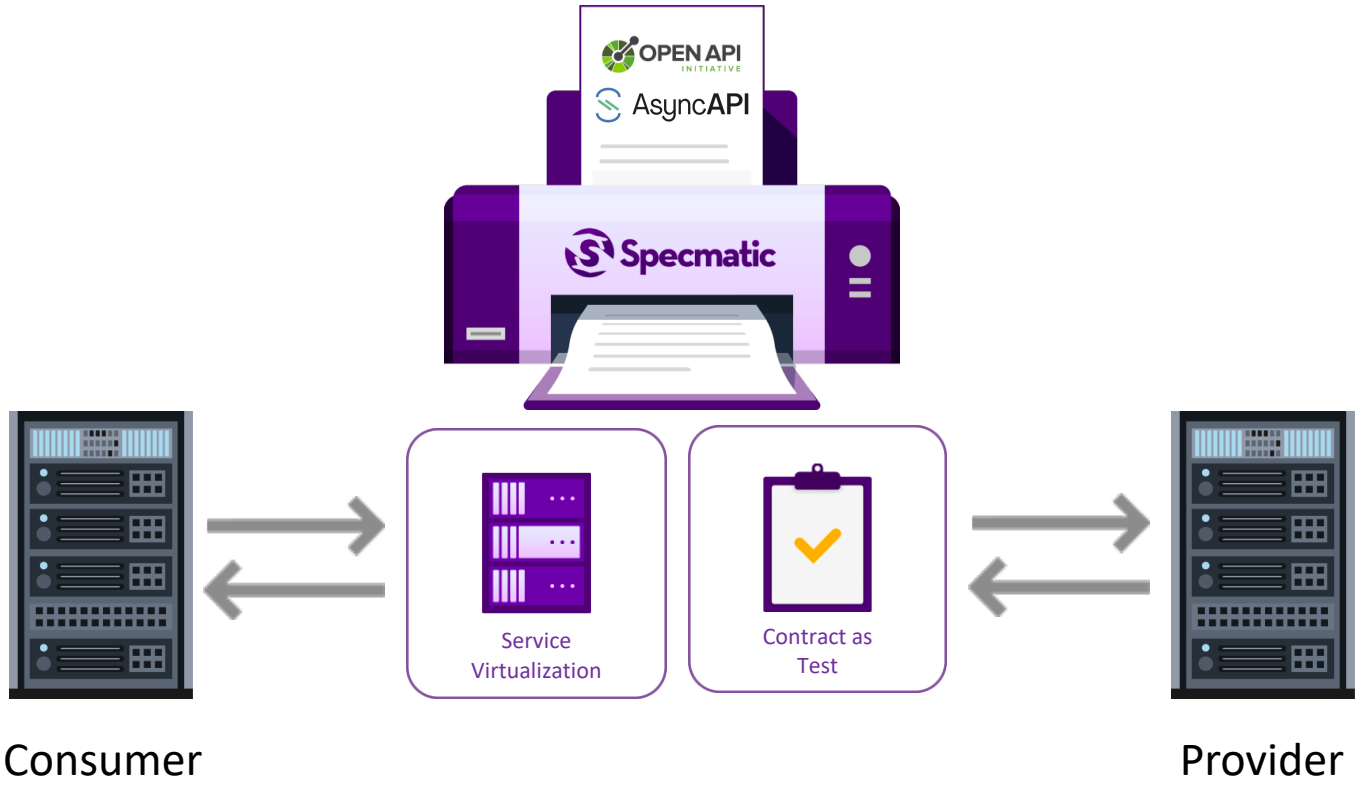
listProduct Pass

0.125s

Step 1. Product.listProduct.commandRequest …

Step 2. Product.listProduct.commandReply …

API Specifications as Executable Contracts



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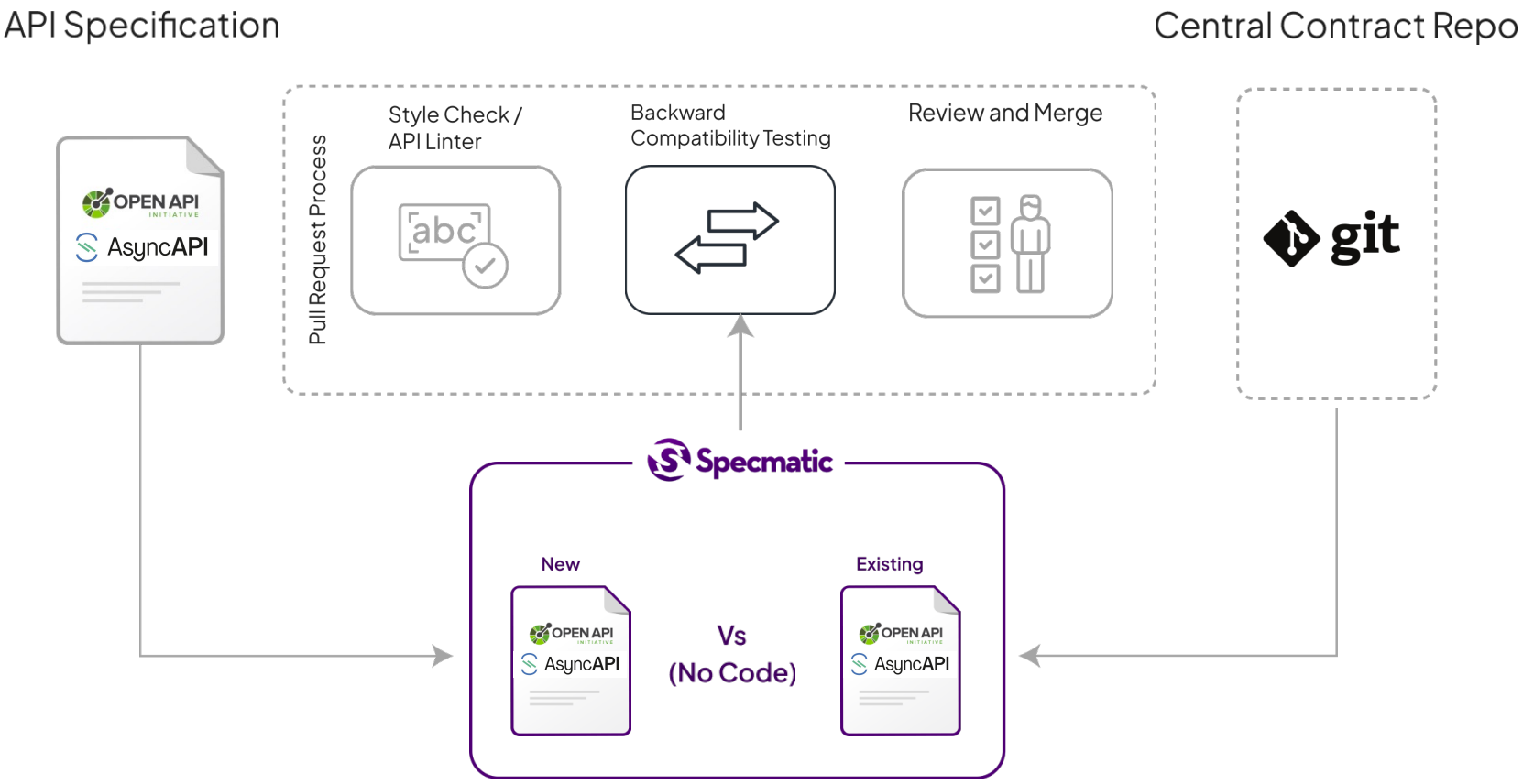
Central Contract Repo – Single source of truth



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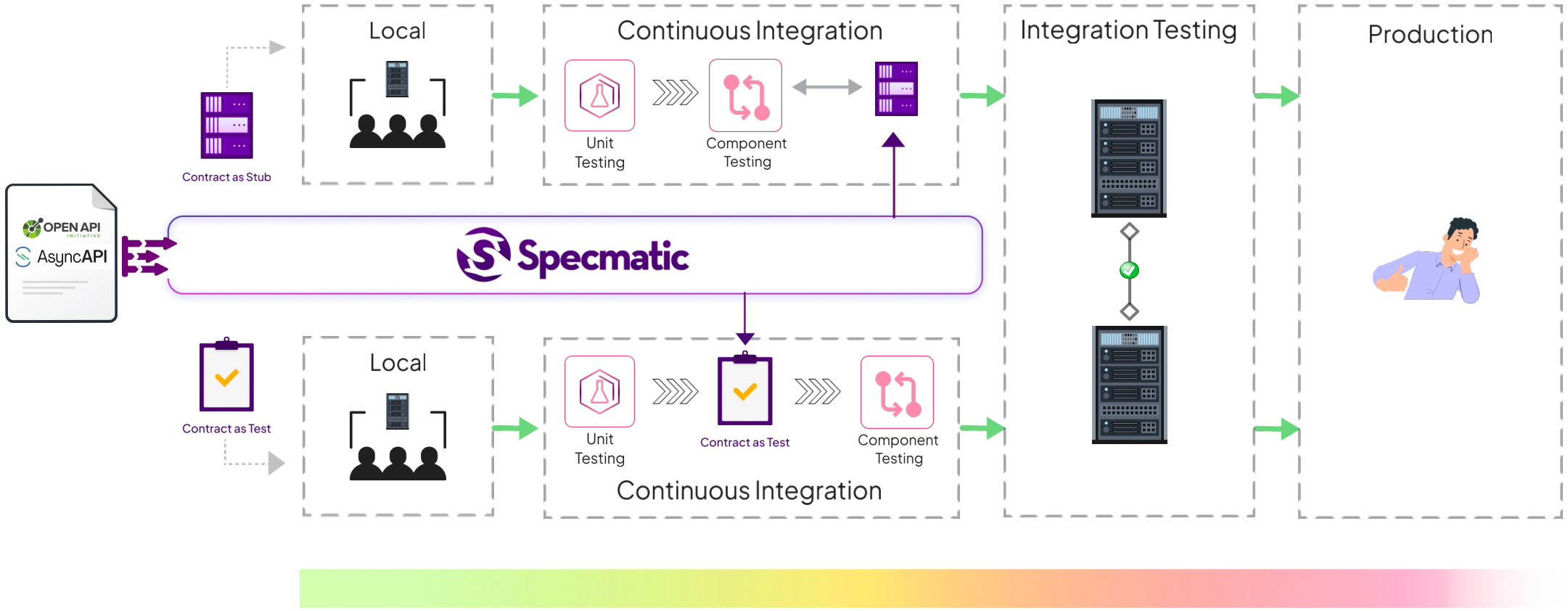
Shift-left and kill integration tests



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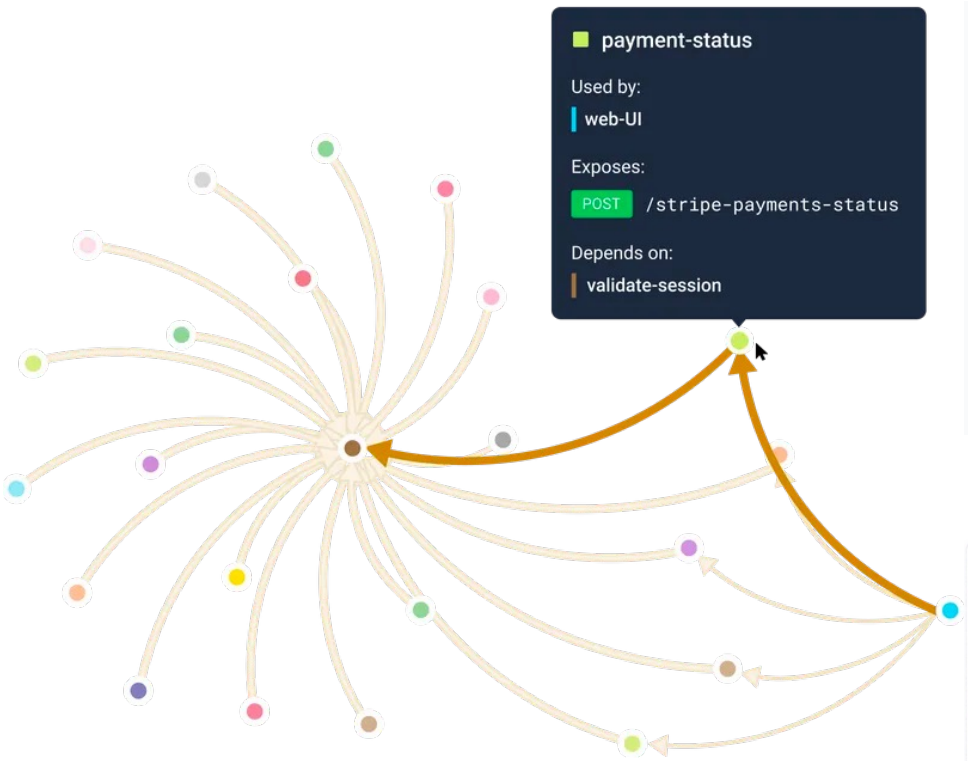
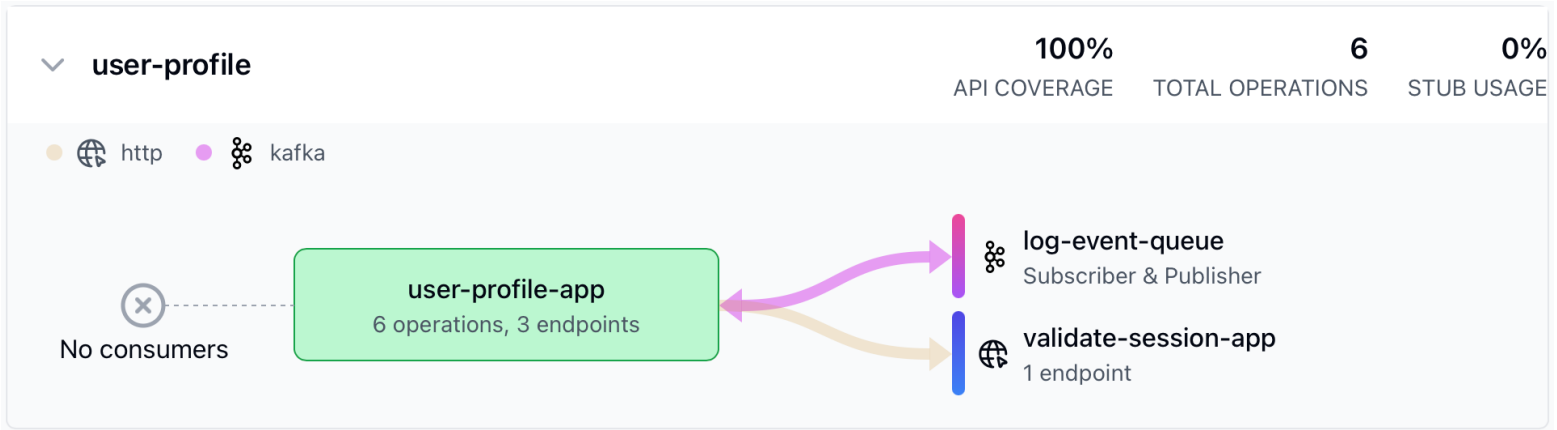
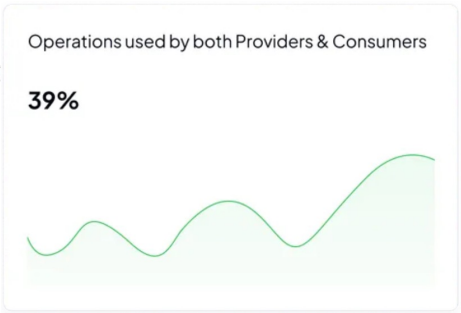
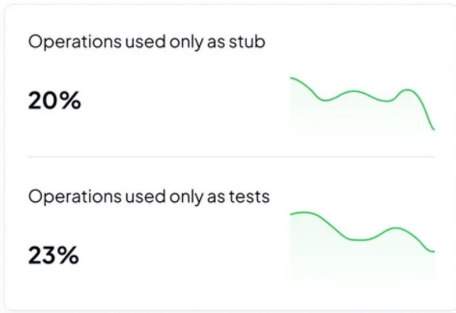
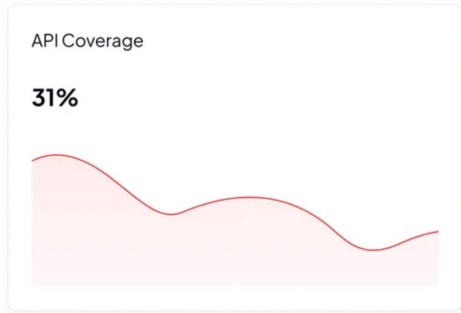
Specmatic | Insights











https://insights.specmatic.in/

Specmatic

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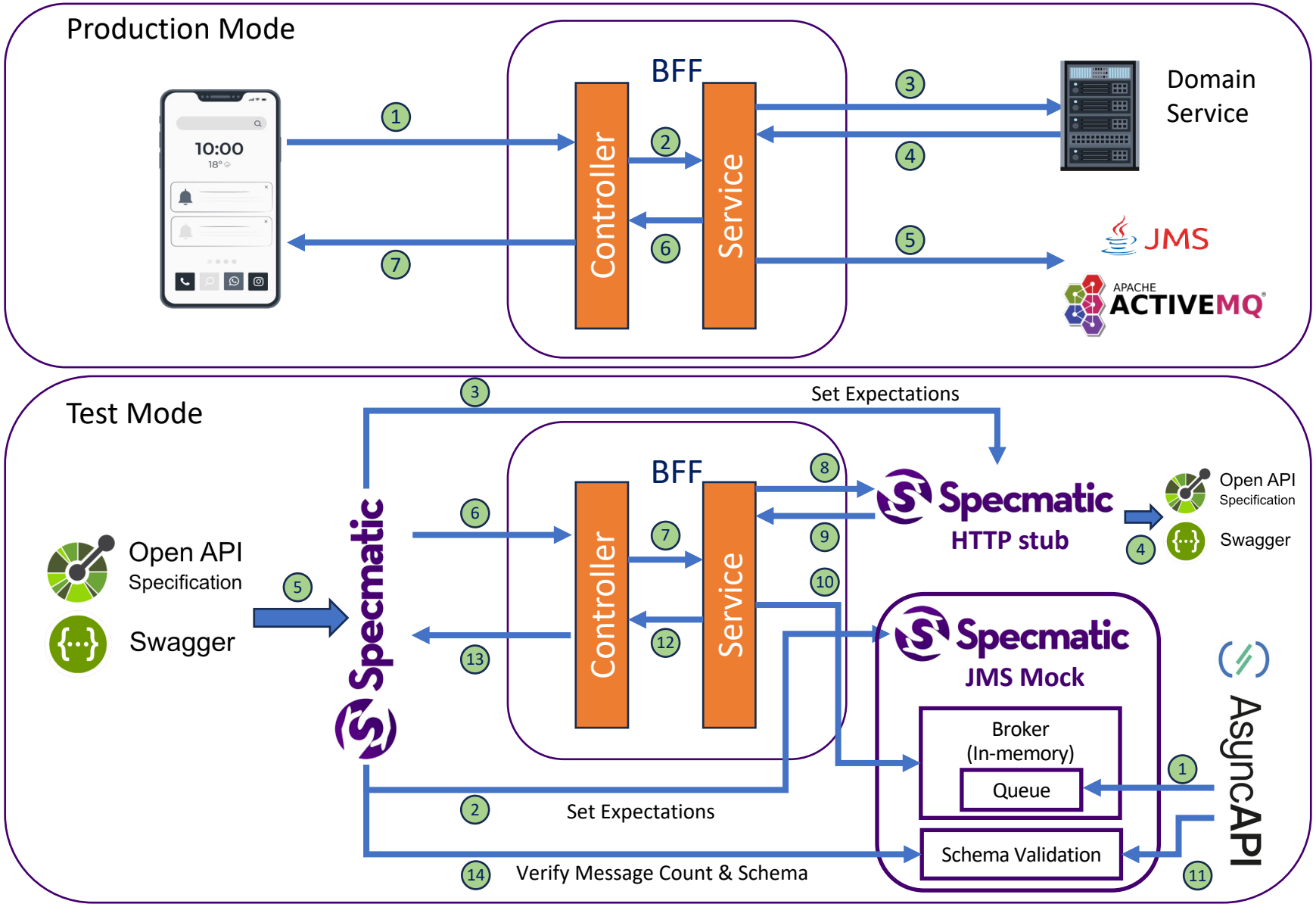
JMS Mocking using AsyncAPI



https://specmatic.in/updates/jms-mocking-with-asyncapi-using-specmatic

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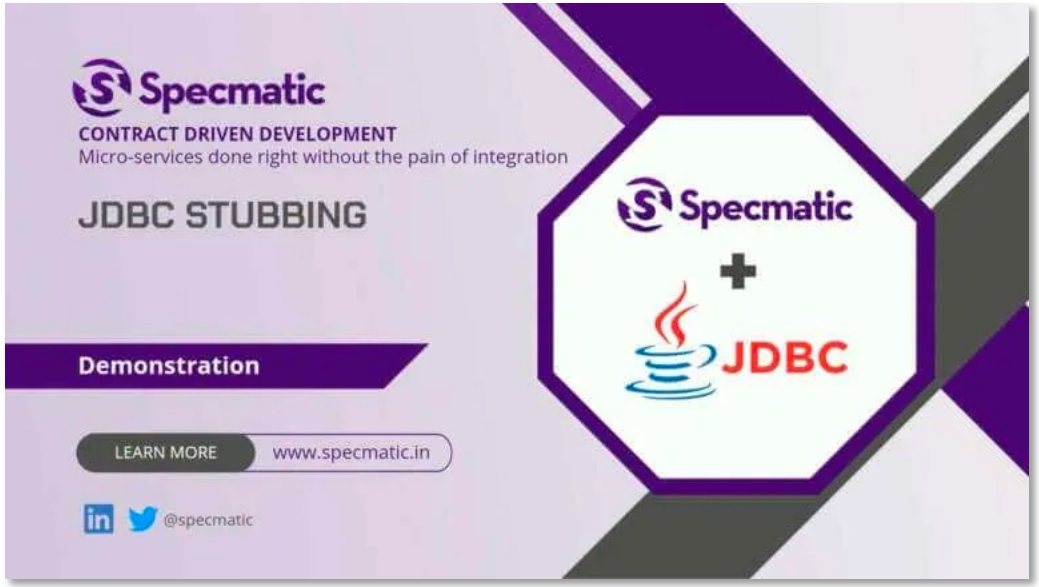
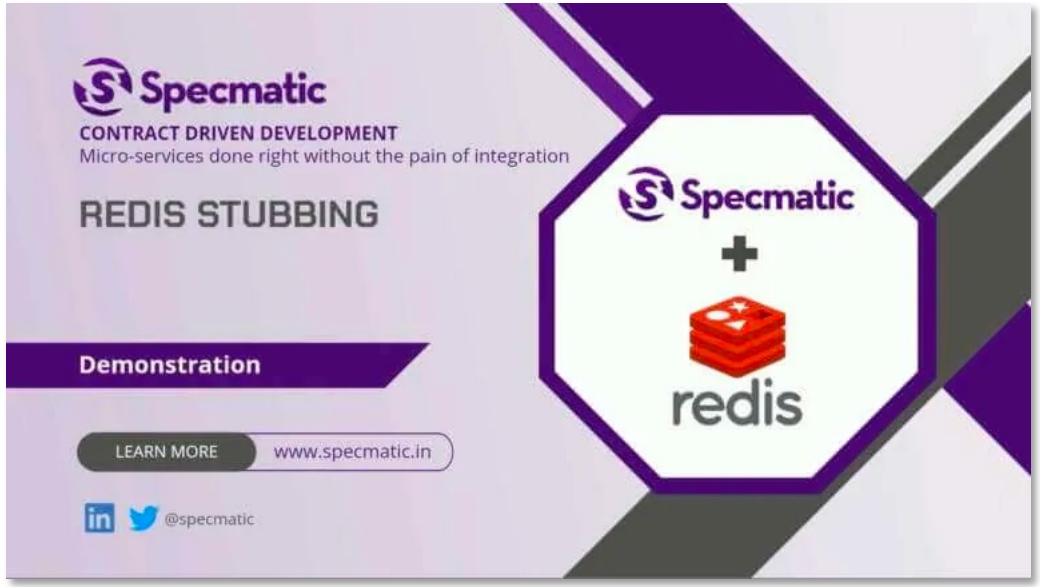
Summary of supported capabilities



https://specmatic.in/updates/jdbc-stubbing-with-specmatic-contract-testing



https://specmatic.in/updates/redis-stubbing-with-specmatic-contract-testing

And more...

https://specmatic.in/category/features

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Thank you!

https://specmatic.in

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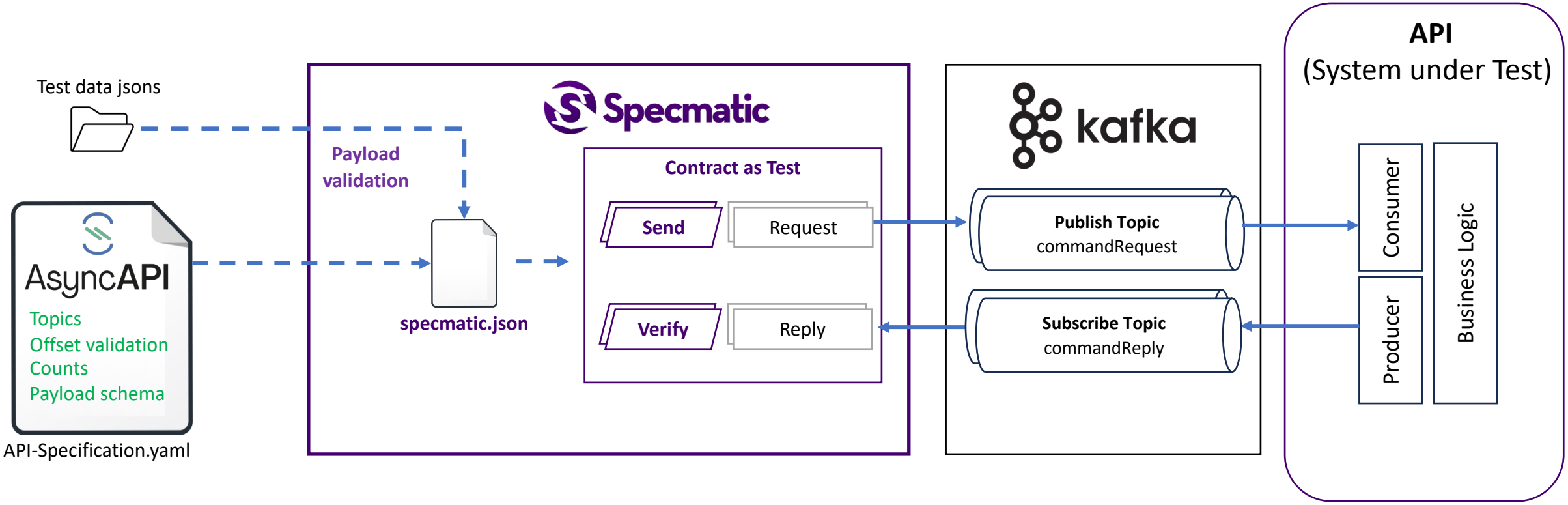
@nashjain

AsyncAPI Spec as Test (Request Reply Pattern)



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