

Stick to the rules!

Consumer Driven Contracts

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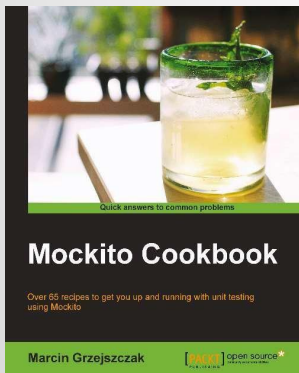
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codearte



TDD on architectural level



What is Consumer Driven Contract

- Server
- Consumer
- Contract

Consumer Driven Contract benefits



Example



Example



How to solve it

- Consumer's tests
- Server tests

Contract definition

- Contract defines communication
- Your stub is your contract - verify it!
- Expose your stub to your consumers

Not so fast...

- Maintaining datasets
- What exactly verify for server side?
- Breaking changes

Consumer Technology

Wiremock

<http://wiremock.org>

```
testCompile 'com.github.tomakehurst:wiremock:1.53'
```

```
{
  "request": {
    "method": "GET",
    "url": "/hello"
  },
  "response": {
    "status": 200,
    "body": "Hello world!",
    "headers": { "Content-Type": "text/plain" }
  }
}
```

Server Technology

Accurate REST

<https://github.com/Codearte/accurest>

```
buildscript {
    repositories {
        mavenCentral()
    }
    dependencies {
        classpath 'io.codearte.accurest:accurest-gradle-plugin:0.5.0'
    }
}

apply plugin: 'accurest'
```

Server Technology

Accurate REST

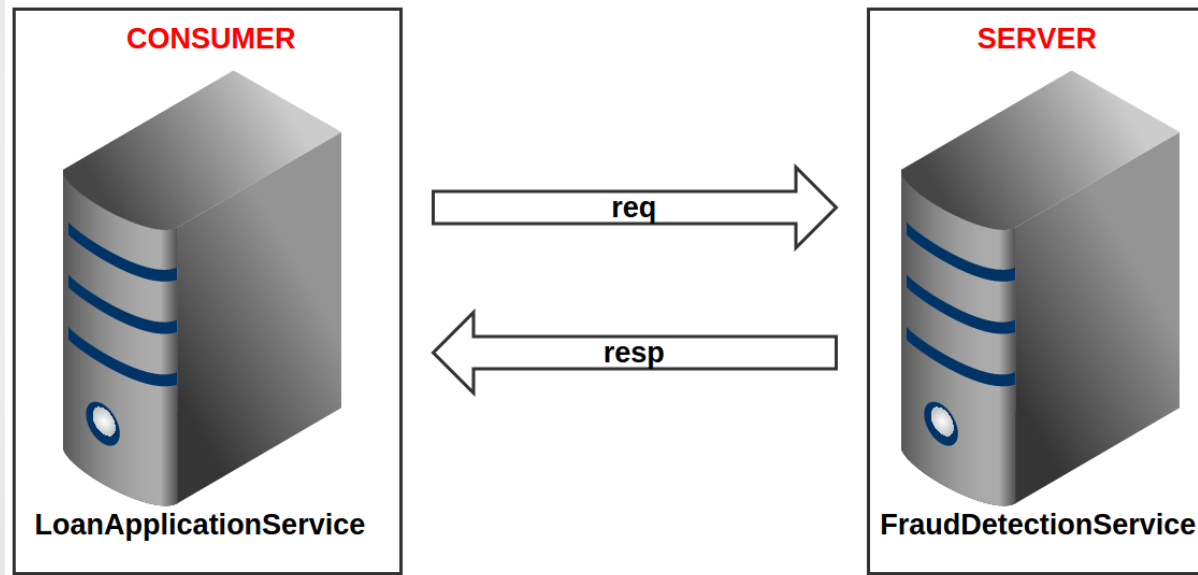
```
def shouldMarkClientAsNotFraud() {
  given:
    def request = given()
      .header('Content-Type', 'application/frud+json')
      .body('{ "clientPesel": "12345678901",
              "loanAmount": 123.123 }')

  when:
    def response = given().spec(request)
      .put("/fraudcheck")

  then:
    response.statusCode == 200
    response.header('Content-Type') == 'application/fraud+json'

  and:
    def responseBody = parseText(response.body.asString())
    responseBody.fraudCheckStatus == "OK"
}
```

Example



Live coding



Q&A

github.com/marcingrzejszczak/geecon_cdc_examples