

Better Tests with REST Assured Configuration



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Test
(duplicate code)

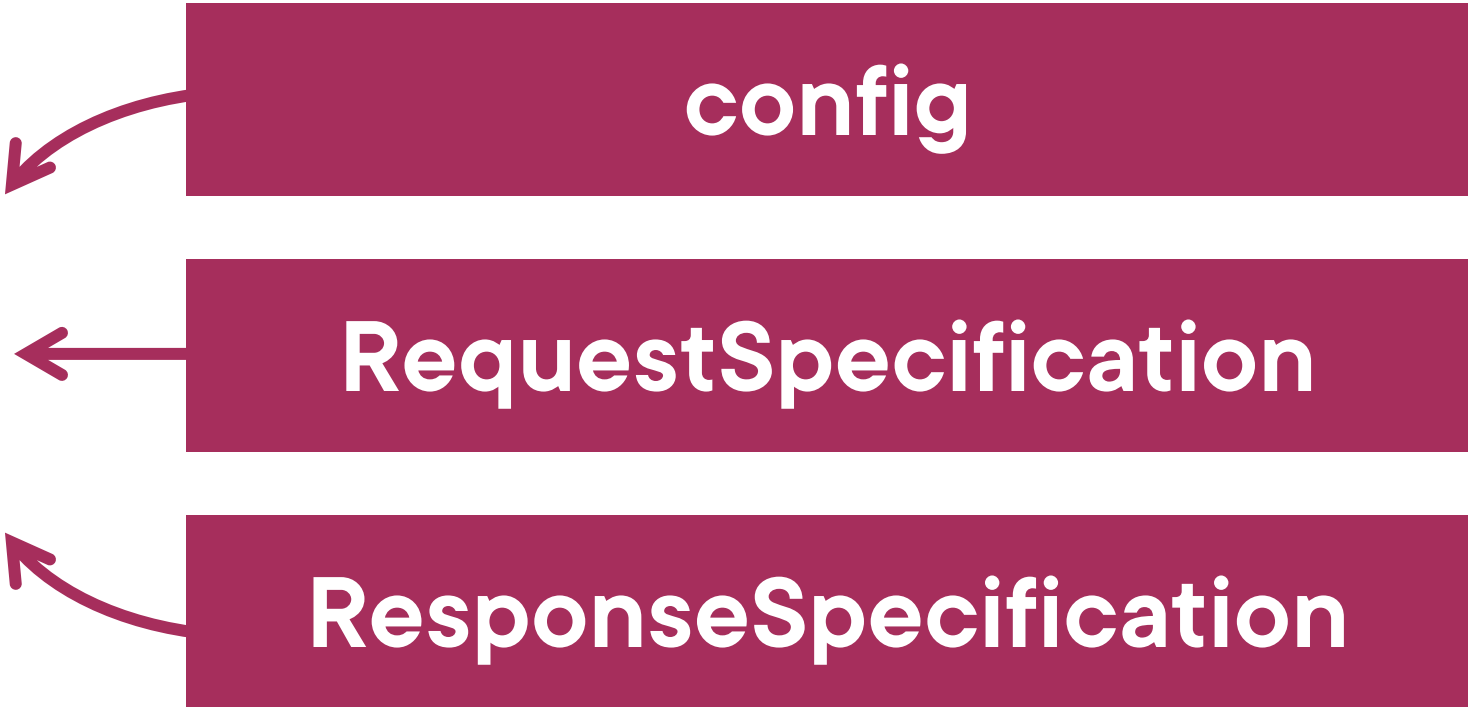
Test
(duplicate code)

Test
(duplicate code)

Test

Test

Test



Overview



Global REST Assured constants

Global config

Request specification

Response specification

Logging

Further learning

@Test

```
public void testOne() {  
    RestAssured.get("url")  
    // ...  
}
```

@Test

```
public void testTwo() {  
    RestAssured.get("url")  
    // ...  
}
```

RestAssured.baseUrl



.get()



```
public class RestAssured {  
    String baseUrl  
    int port  
    String basePath  
    String rootPath  
    // ...  
    RestAssuredConfig config  
    RequestSpecification requestSpecification  
    ResponseSpecification responseSpecification  
}
```

basePath



`http://localhost:8080/`

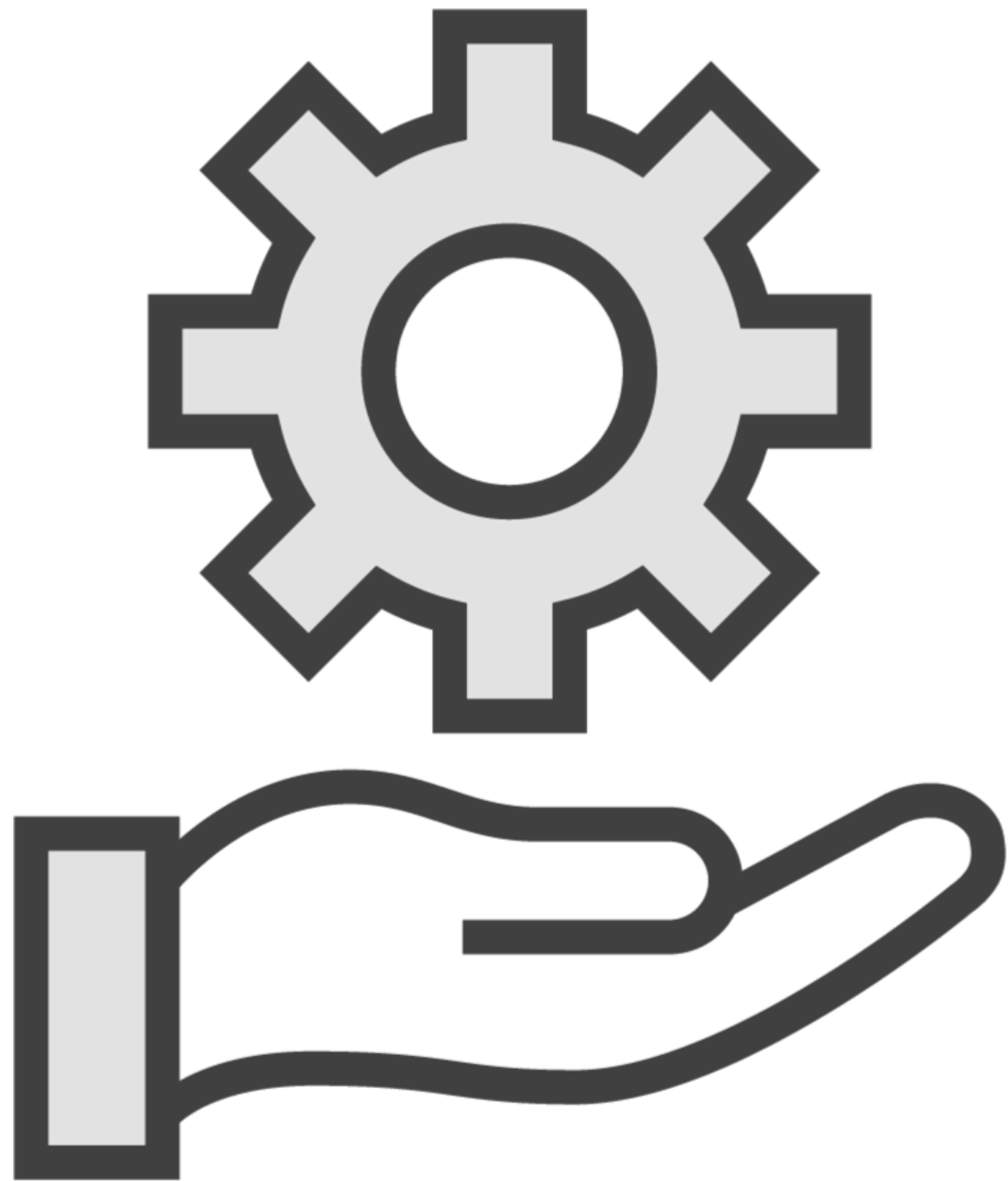
baseURI



port



RestAssuredConfig



Underlying HttpClient behaviour

Redirecting

Connection timeout

Logging

Encoding and decoding

Object mapping

Behaviour in case of test failure



RequestSpecification:

- What to send on all or some requests

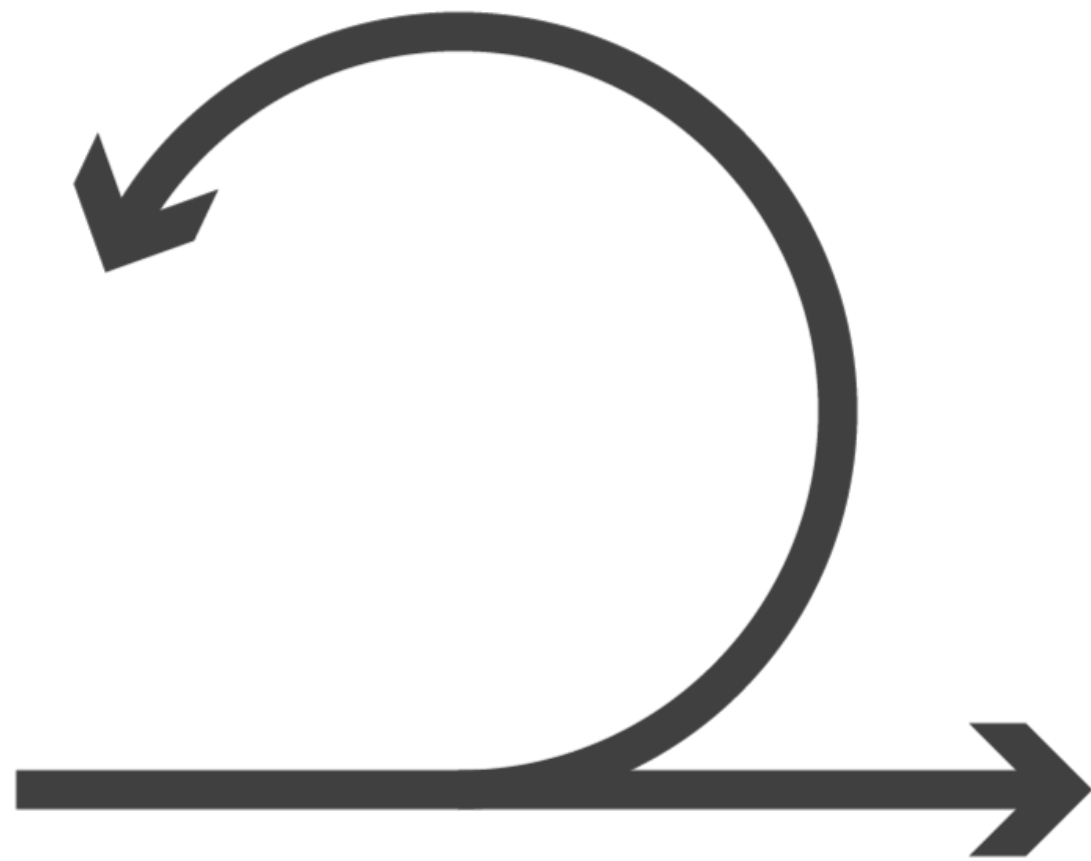
ResponseSpecification:

- What to verify on all or some responses

URL redirection

a.k.a. URL forwarding - a technique to give more than one URL address to a resource

URL Forwarding



Temporarily redirect during site maintenance or downtime

In case of permanent redirects - to preserve existing links after changing the site's URLs

Client

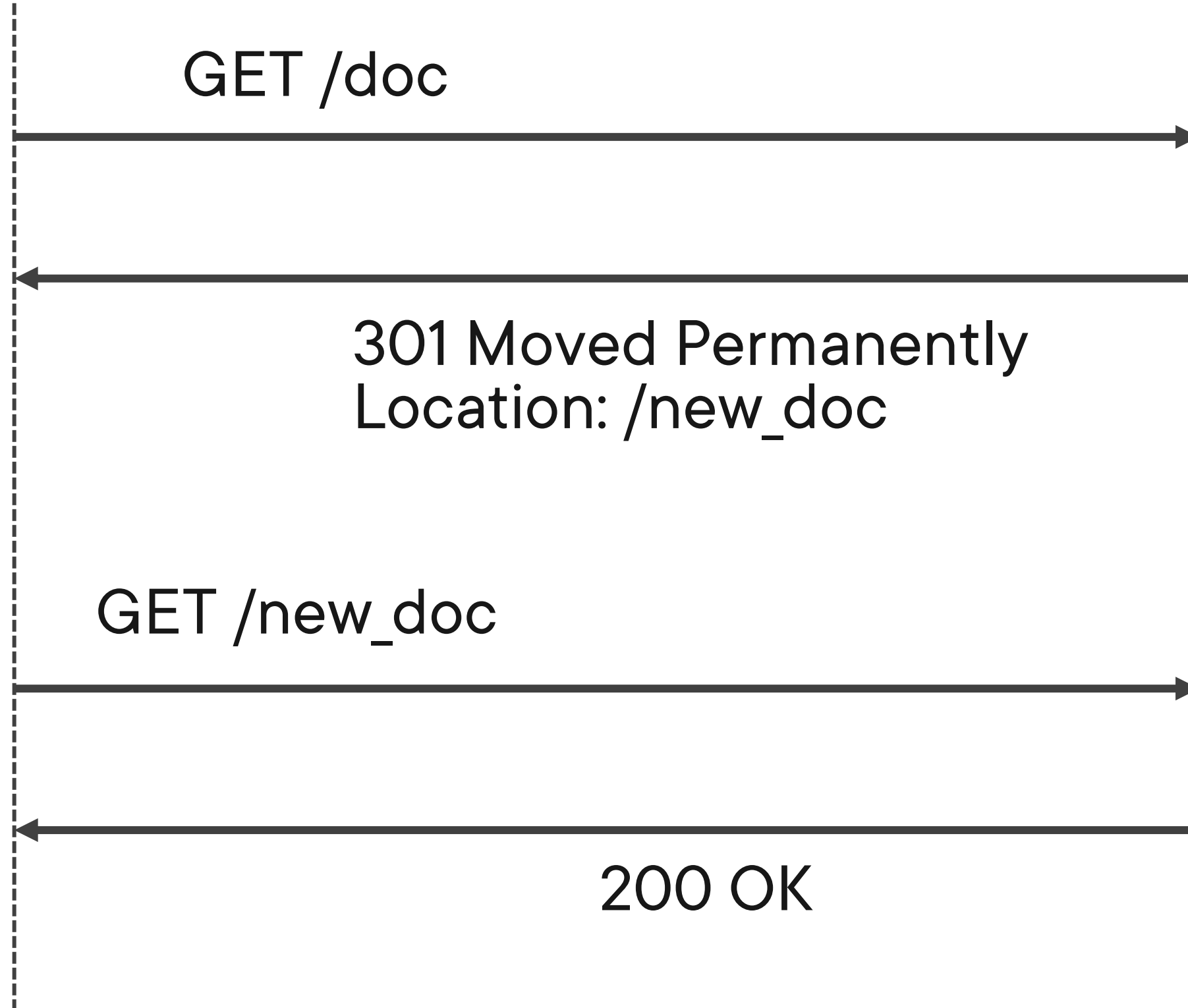
Server

GET /doc

301 Moved Permanently
Location: /new_doc

GET /new_doc

200 OK




```
new RequestSpecBuilder()  
    .setThingOne(...)  
    .setThingTwo(...)  
    .build();
```

.spec()

RestAssured.requestSpecification

```
new ResponseSpecBuilder()  
    .expectStatusCode(200)  
    .expectContentType(JSON)  
    .build();
```



**.then()
.spec()**

RestAssured.responseSpecification

RestAssured

.given()

.spec(commonRequestSpec)

.when()

.get(url)

.then()

.spec(commonResponseSpec)

// more verifications

RestAssured

.given()

.spec(commonRequestSpec)

.log().all()

.when()

.get(url)

.then()

.spec(commonResponseSpec)

.log().headers()

Debugging

`peek(), print()`

Logging

`log()`

```
.log()  
  .ifStatusCodeMatches(...)  
  .ifError(...)  
  .ifValidationFails(...)
```

REST Assured

Apache HttpClient

HttpStatus

Hamcrest

Summary



Web API and HTTP Concepts

DSL and Fluent Interface

Headers and body validation

Object mapping

Complex HTTP requests

Configuration and specification

Rating



Thank you!
(Happy coding)

