



Good testers are not good in test automation. So what?

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20 November 2019

Who am I?

- 22 years experience in testing.
- I did assignments as contractor at Rabobank, Achmea and Belastingdienst (to name a few)
- Role: Software Engineer in Test and Test Engineer
- One of the editors for TestNetNieuws of TestNet (Dutch association for testers, 1900 professional testers are subscribed)
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Background of this lightning talk



Goede testers zijn geen goede testautomatiseerders. So what?

Auteur: John Kronenberg • John.Kronenberg@closure.nl In de afgelopen tien jaar is de rol van de tester drastisch, dramatisch voor velen, veranderd. De tester van nu moet naast testvaardigheden ook heel goed technisch onderlegd zijn. De tester van nu moet ook testautomatisering kunnen inrichten en bijvoorbeeld zelf fixtures in Java, Selenium Webdriver scripts of Cucumber stepdefinitions kunnen programmeren....



Software Engineer in Test: een 'nieuwe' rolomschrijving voor vooruitstrevende testautomatiseerders

Auteur: John Kronenberg • John.Kronenberg@closure.nl Mijn vorige artikel in TestNetNieuws met de titel 'Goede testers zijn geen goede testautomatiseerders. So what?' heeft, toch enigszins verrassend, veel reads, likes en comments gekregen. Ik heb waarschijnlijk met het artikel een onderwerp geraakt dat in onze testcommunity erg leeft. Ging dat artikel voornamelijk over het feit dat goede testers geen...

What is testing?

Questioning a product in order to evaluate it (**James Bach**)

Testing gathers information about a product with the intention to inform a decision (**Jerry Weinberg**)

Testers see things for what they are. They make informed decisions about quality possible, because they think critically about software (**RST**)

Most people who use computer programs are not computer programmers, and there are many ways in which a tester can question and investigate a product without programming (**Michael Bolton**)

Main idea 1

- in the field not only people are needed who are good in test automation, but also for the traditional testers with less knowledge and ambition in test automation

Let's use the correct words!

- “Automated testing is the act of conducting specific tests via automation (i.e., a set of regression tests) as opposed to conducting them manually, while test automation refers to automating the process of tracking and managing the different tests.” (Kyle McMeekin, Tricentis)

What is automated testing?

```
1 Feature: Test CRUD methods in Sample Employee REST API testing
2
3 Scenario: Add Employee record
4   Given I Set POST employee service api endpoint
5   When I Set request HEADER
6   And Send a POST HTTP request
7   Then I receive valid Response
8
9 Scenario: Update Employee record
10  Given I Set PUT employee service api endpoint
11  When I Set Update request Body
12  And Send PUT HTTP request
13  Then I receive valid HTTP response code 200
14
15
16 Scenario: Get Employee record
17  Given I Set GET employee service api endpoint
18  When I Set request HEADER
19  And Send GET HTTP request
20  Then I receive valid HTTP response code 200
21
22
23 Scenario: DELETE Employee record
24  Given I Set DELETE employee service api endpoint
25  When I Send DELETE HTTP request
26  Then I receive valid HTTP response code 200
```

```
@Given("^I Set POST employee service api endpoint$")
public void setPostEndpoint(){
    addURI = "http://dummy.restapiexample.com/api/v1/create";
    System.out.println("Add URL :"+addURI);
}

@When("^I Set request HEADER$")
public void setHeader(){
    headers = new HttpHeaders();
    headers.add("Accept", "application/json");
    headers.add("Content-Type", "application/json");
}

@When("^Send a POST HTTP request$")
public void sendPostRequest(){
    double name_id = Math.random();
    emp_name = "zozo_"+name_id;//Just to avoid Duplicate Name entry
    String jsonBody = "{\"name\":\""+emp_name+"\", \"salary\":\"123\", \"age\":\"23\"}";
    System.out.println("\n\n" + jsonBody);
    HttpEntity<String> entity = new HttpEntity<String>(jsonBody, headers);
    //POST Method to Add New Employee
    this.restTemplate = new RestTemplate();
    this.response = this.restTemplate.postForEntity(addURI, entity, String.class);
}

@Then("^I receive valid Response$")
public void verifyPostResponse(){
    this.responseBodyPOST = response.getBody();
    // Write response to file
    this.responseBody = this.response.getBody().toString();
    System.out.println("responseBody --->" + responseBody);

    // Get ID from the Response object
    employeeId = getEmpIdFromResponse(responseBody);
    System.out.println("empId is :"+ employeeId);

    // Check if the added Employee is present in the response body.
    Assert.hasText(responseBody, employeeId);
    // System.out.println(propertyFile.get("EmployeeAddResBody"));

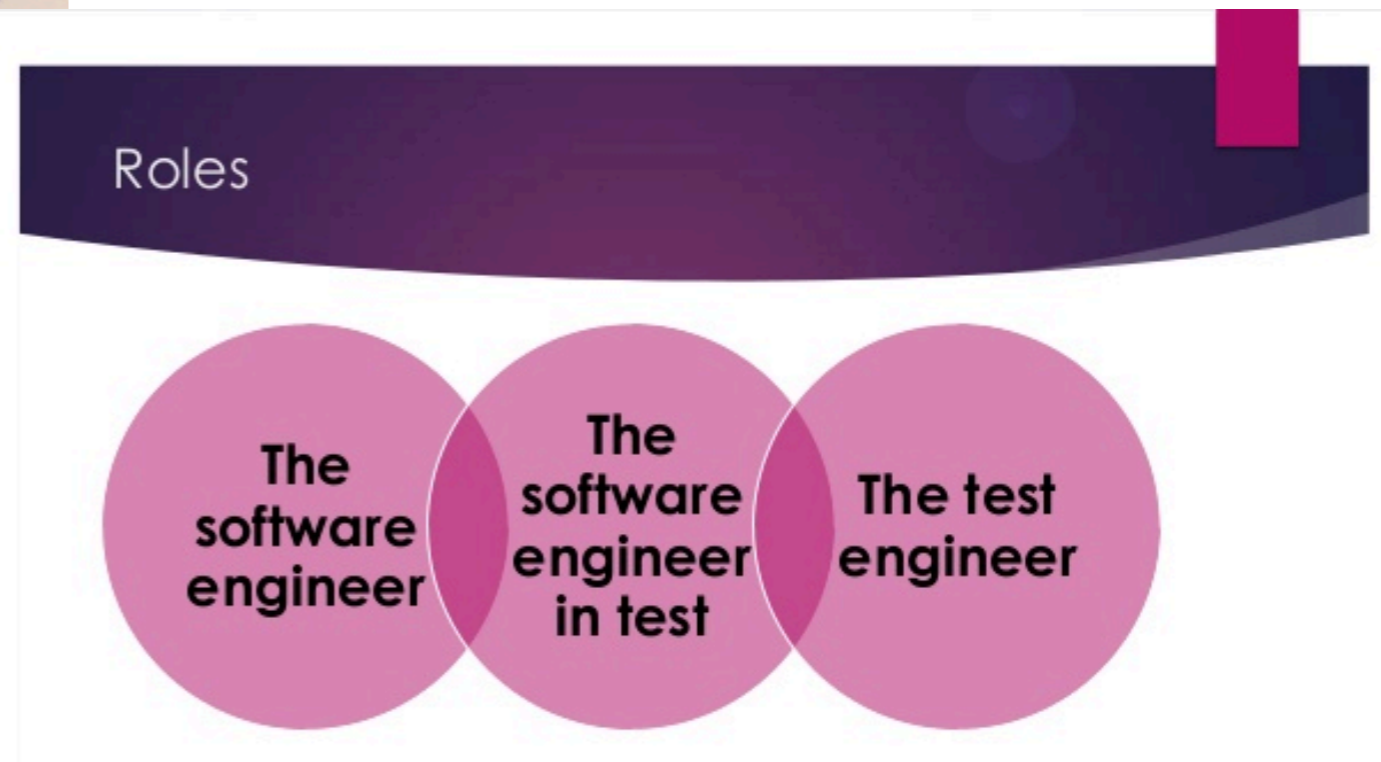
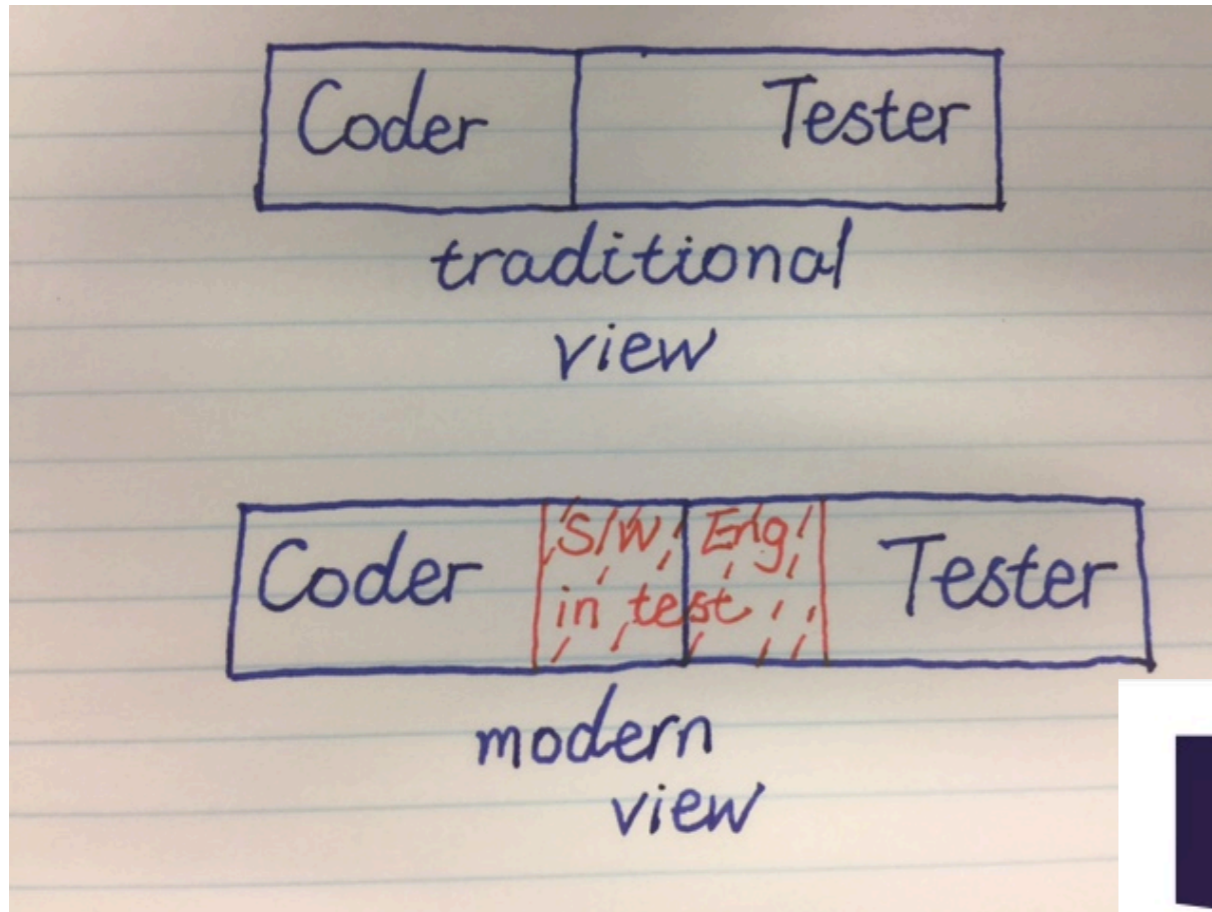
    // Check if the status code is 201
    Assert.isTrue(response.getStatusCode()==HttpStatus.OK);

    System.out.println("Employee is Added successfully employeeId:"+employeeId);
}
```

Main idea 2

- Real automated testing is a relative small part of all needed activities within a test cycle of a project

New role needed?



Main idea 3

- That small part of test automation can be done perfectly by developers or really specialized automated testers (fe. “Software Engineer in Test” role)

Main idea 4, 5

- It could become a problem that testers of today will become automated testers for tomorrow only by adding tooling to their resumés.
- Certification for Software Engineers in Test is needed

What are your thoughts about the ideas?

1. in the field not only people are needed who are good in test automation, but also for the traditional testers with less knowledge and ambition in test automation
2. Real automated testing is a relative small part of all needed activities within a test cycle of a project
3. That small part of test automation can be done perfectly by developers or really good test automators (fe. “Software Engineer in Test” role)
4. For really good test automators the insourcing of not good test automators can become a problem
5. Certification for Software Engineers is needed