

Selenium – Day 5

November 2016

Learning Objectives – Day 5

- ❖ DAY 4 – Recap
- ❖ Walkthrough of a readymade Framework
 - ❖ Keyword
- ❖ Insights into Groovy, Geb & Spock and Cucumber
 - ❖ POM (Using Geb)
- ❖ Overview of Maven

Code Walkthrough – Keyword Framework

Groovy

- Groovy runs in the JVM
 - Groovy code can be compiled into a “normal” Java .class files
 - Groovy code can call on Java classes
 - Groovy classes can be called on by Java classes
 - Every Groovy type is a subtype of `java.lang.Object`
 - Groovy classes can extend Java classes & implement Java interfaces and vice versa!
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- Groovy is syntactically aligned with Java.
 - But can also be more compact and precise .
 - The only language besides Java that fully supports generics and annotations.

GEB (pronounced 'jeb')

Browser Automation

Power of Selenium WebDriver

Elegance of jQuery selection

Robustness of Page Object Modelling

Expressiveness of Groovy



```
import geb.Browser
```

```
Browser.drive {  
    go 'http://google.com'  
    assert title ==  
        'Google'  
}
```

Spock

Spock is a testing and specification framework for Java and Groovy applications

Spock is a Java testing framework capable of handling the full life cycle of a software application

It was created by Peter Niederwieser in 2008

```
@Stepwise
class SampleGebSpec extends GebReportingSpec {

    def "User can login"() {
        when:
        to LoginPage
        login('user1', 'secret')

        then:
        at DashboardPage
        and:
        header.pageTitle == 'Dashboard'
    }
}
```

Cucumber

Cucumber is a software tool that computer programmers use for testing other software

It runs automated acceptance tests written in a behavior-driven development (BDD) style

Cucumber is written in the Ruby programming language

Gherkin is the language that Cucumber uses to define test cases

It is designed to be non-technical and human readable, and collectively describes use cases relating to a software system

Scenario: Eric wants to withdraw money from his bank account at an ATM

Given Eric has a valid Credit or Debit card

And his account balance is \$100

When he inserts his card

And withdraws \$45

Then the ATM should return \$45

And his account balance is \$55

Code Walkthrough – POM Framework

Day 5 - Summary

Today we learnt :

- ❖ Walkthrough of a Hybrid Framework
- ❖ Basics of Groovy, Geb & Spock and Cucumber
- ❖ Walkthrough of a POM Framework