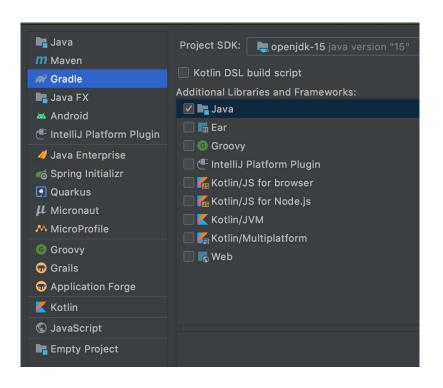
# BDD + GHERKIN + CUCUMBER IN ACTION

#### TOOLS

```
Java (8+ recomendado)
Intellij
Gradle (dependency manager)
Cucumber JVM (info.cukes dependency)
JUnit
```

# CREATING A GRADLE PROJECT





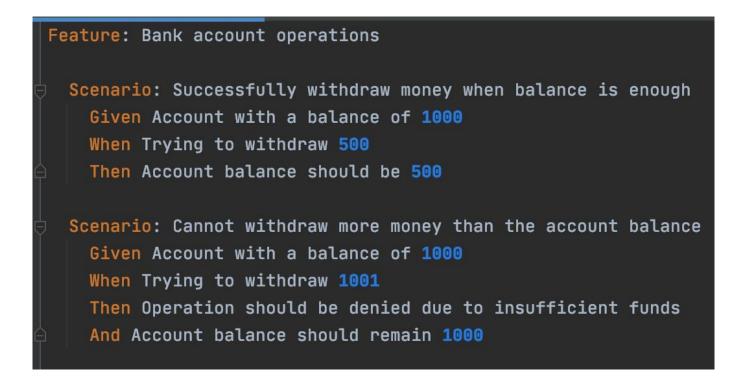


# ADDING CUCUMBER DEPENDENCIES

```
dependencies \{
    testCompile group: 'junit', name: 'junit', version: '4.12'
    testImplementation("info.cukes:cucumber-java:1.2.5")
    testImplementation("info.cukes:cucumber-junit:1.2.5")
```

https://mvnrepository.com/artifact/info.cukes/cucumber-junit/1.2.5
https://mvnrepository.com/artifact/info.cukes/cucumber-java/1.2.5

# WRITING GHERKIN TESTS



# CREATING CUCUMBER RUNNER

```
package aninfo.cucumber;
import org.junit.runner.RunWith;
import cucumber.api.CucumberOptions;
import cucumber.api.junit.Cucumber;
@RunWith(Cucumber.class)
@CucumberOptions(features = "src/test/resources/cucumber")
public class CucumberTest {}
```

# RUNNING TESTS (NO CODE AT ALL)

```
@Given("^Account with a balance of (\\d+)$")
public void account_with_a_balance_of(int arg1) throws Throwable {
    Write code here that turns the phrase above into concrete actions
    throw new PendingException();
@When("^Trying to withdraw (\\d+)$")
public void trying_to_withdraw(int arg1) throws Throwable {
    // Write code here that turns the phrase above into concrete actions
    throw new PendingException();
@Then("^Account balance should be (\\d+)$")
public void account_balance_should_be(int arg1) throws Throwable {
    // Write code here that turns the phrase above into concrete actions
    throw new PendingException();
```

```
1 Scenarios (1 undefined)
3 Steps (3 undefined)
```

Nos dice como codearlo!

#### CODING THE TESTS

```
@Given("^Account with a balance of (\\d+)$")
public void account_with_a_balance_of(int balance) { account = new Account(Double.valueOf(balance)); }

@When("^Trying to withdraw (\\d+)$")
public void trying_to_withdraw(int sum) {
    try {
        account = AccountService.withdraw(account, Double.valueOf(sum));
    } catch (InsufficientFundsException ife) {
        this.ife = ife;
    }
}
```

```
@Then("^Account balance should be (\\d+)$")
public void account_balance_should_be(int balance) { assertEquals(Double.valueOf(balance), account.getBalance()); }
```

# TESTS IN GREEN!

#### **Test Results** ✓ aninfo.cucumber.CucumberTest classMethod ✓ Given Account with a balance of 1000. ✓ When Trying to withdraw 500 ✓ Then Account balance should be 500 classMethod ✓ Given Account with a balance of 1000 ✓ When Trying to withdraw 1001 ✓ Then Operation should be denied due to insufficient funds And Account balance should remain 1000 ✓ classMethod ✓ Given Account with a balance of 1000 ✓ When Trying to deposit 500 ✓ Then Account balance should be 1500. classMethod Given Account with a balance of 200 ✓ When Trying to deposit -100 ✓ Then Operation should be denied due to negative sum ✓ And Account balance should remain 200

4 Scenarios (4 passed) 14 Steps (14 passed) 0m0.282s

### PAPERS AND DOCS

https://martinfowler.com/bliki/GivenWhenThen.html

https://martinfowler.com/bliki/SpecificationByExample.html

https://dannorth.net/introducing-bdd/

# GRACIAS!

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