

Training program:

Test Driven Development (TDD) using Spock or JUnit 5

Info:

Name:	Test Driven Development (TDD) using Spock or JUnit 5
Code:	craft-test-TDD
Category:	Automatic testing
Target audience:	developers
Duration:	3-4 days
Format:	40% lecture / 60% workshop

It's all about the content.

Training program

1. Unit testing

1.1. FIRST

1.2. test structure (given-when-then/arrange-act-assert)

1.3. naming

1.4. testable code

1.5. patterns

1.5.1. Object Mother

1.5.2. Assert Object

1.6. anti-patterns

2. Spock Framework

2.1. Groovy in a nutshell

2.2. structure blocks/sections

2.3. parametrized tests

2.4. testing exceptions

2.5. conditional testing

2.6. comparison: JUnit/Mockito/AssertJ vs Spock

3. Test Driven Development

3.1. red-green-refactor

3.2. przejrzysta struktura testu

3.3. workflow

3.4. IDE (plugins, shortcuts)

4. Refaktoring

4.1. code transformations

4.2. IDE support

5. Test doubles

5.1. Mock

5.2. Stub

5.3. Fake

5.4. Dummy

5.5. Spy

6. TDD and integration tests with Spring Framework

6.1. Spock/JUnit support

6.2. config

6.3. injections

6.4. contexts

6.5. cache

7. Test Driven Development - best practices**8. Testing - advanced topics**

8.1. asynch (Awaitility, Spock)

8.2. mutation testing (PIT)

8.3. feature toggle

8.4. performance

8.5. randomness handling

8.6. microbenchmarks

8.7. RxJava

8.8. testing Event-Driven arch

8.9. mikroservices

8.10. consumer-Driven-Contracts

