Practical Unit Testing with JUnit and Mockito

Tomek Kaczanowski

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This book explains in detail how to implement unit tests using two very popular open source Java technologies: JUnit and Mockito. It presents a range of techniques necessary to **write high quality unit tests** - e.g. mocks, parametrized tests and matchers. It also discusses trade-offs related to the choices we have to make when dealing with some real-life code issues.

The book stresses the importance of **writing readable and maintainable unit tests**, and puts a lot of stress on code quality. It shows how to achieve testable code and to eliminate common mistakes by following the **Test Driven Development** approach. Every topic discussed in the book is illustrated with code examples, and each chapter is accompanied by some exercises.

By reading this book you will:

- Grasp the role and purpose of unit tests
- Write high-quality, readable and maintainable unit tests
- Learn how to use JUnit and Mockito (but also other useful tools)
- Avoid common pitfalls when writing unit tests
- Recognize bad unit tests, and fix them in no time
- Develop code following the Test Driven Development (TDD) approach
- Use mocks, stubs and test-spies intelligently
- Measure the quality of your tests using code coverage and mutation testing
- Learn how to improve your tests' code so it is an asset and not a burden
- Test collections, expected exceptions, time-dependent methods and much more
- Customize test reports so that they show you what you really need to know
- Master tools and techniques your team members have never even heard of (priceless!) :)

Nowadays every developer is expected to write unit tests. While simple in theory, in practice writing high-quality unit tests can turn out to be a real challenge. This book will help.

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