



# Test-Driven Java Development

By *Viktor Farcic, Alex Garcia*

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**Test-Driven Java Development** By Viktor Farcic, Alex Garcia

**Invoke TDD principles for end-to-end application development with Java**

## About This Book

- Explore the most popular TDD tools and frameworks and become more proficient in building applications
- Create applications with better code design, fewer bugs, and higher test coverage, enabling you to get them to market quickly
- Implement test-driven programming methods into your development workflows

## Who This Book Is For

If you're an experienced Java developer and want to implement more effective methods of programming systems and applications, then this book is for you.

## What You Will Learn

- Explore the tools and frameworks required for effective TDD development
- Perform the Red-Green-Refactor process efficiently, the pillar around which all other TDD procedures are based
- Master effective unit testing in isolation from the rest of your code
- Design simple and easily maintainable codes by implementing different techniques
- Use mocking frameworks and techniques to easily write and quickly execute tests
- Develop an application to implement behaviour-driven development in conjunction with unit testing
- Enable and disable features using Feature Toggles

## In Detail

Test-driven development (TDD) is a development approach that relies on a test-first procedure that emphasises writing a test before writing the necessary code, and then refactoring the code to optimize it.

The value of performing TDD with Java, one of the most established programming languages, is to improve the productivity of programmers, the maintainability and performance of code, and develop a deeper understanding of the language and how to employ it effectively.

Starting with the basics of TDD and reasons why its adoption is beneficial, this book will take you from the first steps of TDD with Java until you are confident enough to embrace the practice in your day-to-day routine.

You'll be guided through setting up tools, frameworks, and the environment you need, and will dive right in to hands-on exercises with the goal of mastering one practice, tool, or framework at a time. You'll learn about the Red-Green-Refactor procedure, how to write unit tests, and how to use them as executable documentation.

With this book you'll also discover how to design simple and easily maintainable code, work with mocks, utilise behaviour-driven development, refactor old legacy code, and release a half-finished feature to production with feature toggles.

You will finish this book with a deep understanding of the test-driven development methodology and the confidence to apply it to application programming with Java.

## Style and approach

An easy-to-follow, hands-on guide to building applications through effective coding practices. This book covers practical examples by introducing different problems, each one designed as a learning exercise to help you understand each aspect of TDD.



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## **Editorial Review**

### **About the Author**

#### **Viktor Farcic**

Viktor Farcic is a software architect. He has coded using a plethora of languages, starting with Pascal (yes, he is old), Basic (before it got the Visual prefix), ASP (before it got the .Net suffix) and moving on to C, C++, Perl, Python, ASP.Net, Visual Basic, C#, JavaScript, and so on. He has never worked with Fortran. His current favorites are Scala and JavaScript, even though he works extensively on Java. While writing this book, he got sidetracked and fell in love with Polymer and GoLang. His big passions are test-driven development (TDD), behavior-driven development (BDD), Continuous Integration, Delivery, and Deployment (CI/CD). He often speaks at community gatherings and conferences and helps different organizations with his coaching and training sessions. He enjoys constant change and loves working with teams eager to enhance their software craftsmanship skills. He loves sharing his experiences on his blog, <http://TechnologyConversations.com>.

#### **Alex Garcia**

Alex Garcia started coding in C++ but later moved to Java. He is also interested in Groovy, Scala, and JavaScript. He has been working as a system administrator and also as a programmer and consultant. He states that in the software industry, the final product quality is the key to success. He truly believes that delivering bad code always means unsatisfied customers. He is a big fan of Agile practices. He is always interested in learning new languages, paradigms, and frameworks. When the computer is turned off, he likes to walk around sunny Barcelona and likes to practice sports.

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