



# Mastering Unit Testing Using Mockito and JUnit

*By Sujoy Acharya*

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**Mastering Unit Testing Using Mockito and JUnit** By Sujoy Acharya

**An advanced guide to mastering unit testing using Mockito and JUnit**

## About This Book

- Create meaningful and maintainable automated unit tests using advanced JUnit features and the Mockito framework
- Build an automated continuous integration environment to get real-time feedback on broken code, code coverage, code quality, and integration issues
- Covers best practices and presents insights on architecture and designs to create faster and reliable unit testing environments

## Who This Book Is For

This book is for you if you are a developer with some experience in Java application development as well as a basic knowledge of JUnit testing. But for those whose skill set is void of any prior experience with JUnit testing, the book also covers basic fundamentals to get you acquainted with the concepts before putting them into practise.

## What You Will Learn

- Write advanced JUnit test cases using advanced JUnit 4 features
- Automate JUnit test cases using Gradle, Maven, and Ant scripting
- Practice continuous integration with Jenkins and Ant, Maven, and Gradle scripting
- Monitor code quality with the SonarQube dashboard
- Analyze static code using PMD, Checkstyle, and FindBugs
- Master code coverage with Clover, Cobertura, Eclemma, and JaCoCo
- Design for testability and refactor legacy code
- Practice test-driven development with Mockito

## In Detail

It is insanity to keep doing things the same way and expect them to improve. Any program is useful only when it is functional; hence, before applying complex tools, patterns, or APIs to your production code, checking software functionality is must. Automated JUnit tests help you verify your assumptions continuously, detect side effects quickly, and also help you save time.

This book will provide the skills you need to successfully build and maintain meaningful JUnit test cases. You will begin with how to use advanced JUnit 4 features, improve code coverage, automate JUnit tests, monitor code quality, write JUnit tests for the database and web tier refactor legacy code, mock external dependencies using Mockito, and write testable code using test-driven development. By sequentially working through the steps in each chapter, you will quickly master the advanced JUnit features.

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### Editorial Review

About the Author

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Sujoy Acharya works as a software architect with Siemens Technology and Services Pvt Ltd. (STS). He grew up in a joint family and pursued his graduation in Computer Science and Engineering. His hobbies are watching movies and sitcoms, playing outdoor sports, and reading books. He likes to research upcoming technologies. His major contributions are in the fields of Java, J2EE, SOA, Ajax, GWT, and the Spring framework. He has authored Test-Driven Development with Mockito, Packt Publishing. He designs and develops healthcare software products. He has over 10 years of industrial experience and has architected and implemented large-scale enterprise solutions.

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