Practical Unit Testing

with TestNG and Mockito

Tomek Kaczanowski

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Sujoy Acharya

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   Practical Unit Testing with TestNG and Mockito Tomasz Kaczanowski,Tomek Kaczanowski,2012   Java Testing for New Developers: A Practical Guide with Examples William E. Clark,2025-03-24 Java Testing for New Developers A Practical Guide with Examples provides comprehensive instruction on the essential techniques and methodologies required to build robust test cases in Java The book delivers a structured approach covering fundamental concepts test case creation and the intricacies of various testing frameworks such as JUnit and TestNG With clear explanations and detailed code examples it equips new developers with the skills needed to ensure code reliability and maintainability The guide is meticulously organized to lead readers through the setup of a suitable testing environment the principles of unit testing and advanced methods like test driven development Each section builds logically upon previous topics offering a precise understanding of how to integrate automated testing into the development process configure continuous integration pipelines and address common testing challenges The content emphasizes practical implementation and real world applications making it a valuable resource for those starting their journey in Java development Attention is given to modern practices including integration testing the use of mocking and stubbing and effective debugging strategies This book serves as both a comprehensive introduction for beginners and as a concise reference for experienced practitioners looking to refine their testing acumen Its focused narrative and technical clarity ensure that readers are well prepared to implement effective reliable testing strategies in professional Java projects   **Practical Unit Testing with JUnit and Mockito** Tomek Kaczanowski,2019-11-25 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

Serverless Programming Cookbook Heartin Kanikathottu,2019-01-31 Build secure and deploy real world serverless applications in AWS and peek into the serverless cloud offerings from Azure Google Cloud and IBM Cloud Key FeaturesBuild serverless applications with AWS Lambda AWS CloudFormation and AWS CloudWatchPerform data analytics and natural language processing NLP on the AWS serverless platformExplore various design patterns and best practices involved in serverless computingBook Description Managing physical servers will be a thing of the past once you re able to harness the power of serverless computing If you re already prepped with the basics of serverless computing Serverless Programming Cookbook will help you take the next step ahead This recipe based guide provides solutions to problems you might face while building serverless applications You ll begin by setting up Amazon Web Services AWS the primary cloud provider used for most recipes The next set of recipes will cover various components to build a Serverless application including REST APIs database user management authentication web hosting domain registration DNS management CDN messaging notifications and monitoring The book also introduces you to the latest technology trends such as Data Streams Machine Learning and NLP You will also see patterns and practices for using various services in a real world application Finally to broaden your understanding of Serverless computing you ll also cover getting started guides for other cloud providers such as Azure Google Cloud Platform and IBM cloud By the end of this book you ll have acquired the skills you need to build serverless applications efficiently using various cloud offerings What you will learnServerless computing in AWS and explore services with other cloudsDevelop full stack apps with API Gateway Cognito Lambda and DynamoDBWeb hosting with S3 CloudFront Route 53 and AWS Certificate ManagerSQS and SNS for effective communication between microservices Monitoring and troubleshooting with CloudWatch logs and metrics Explore Kinesis Streams Amazon ML models and Alexa Skills KitWho this book is for For developers looking for practical solutions to common problems while building a serverless application this book provides helpful recipes To get started with this intermediate level book knowledge of basic programming is a must

Der Weg zum Java-Profi Michael Inden,2020-12-04 Standardwerk in 5 Neuauflage Das Standardwerk f r die professionelle Javaentwicklung Fundierter berblick ber Profithemen die man sonst nicht findet Alles was man braucht um im Coding Job mithalten zu k nnen Dieses Buch bietet eine umfassende Einf hrung in die professionelle Java Entwicklung und vermittelt Ihnen das notwendige Wissen um stabile und erweiterbare Softwaresysteme auf Java SE Basis zu bauen Praxisnahe Beispiele helfen dabei das Gelernte rasch umzusetzen Neben der Praxis wird viel Wert auf das Verst ndnis zugrunde liegender Konzepte gelegt Dabei kommen dem Autor Michael Inden seine umfangreichen Schulungs und Entwicklererfahrungen zugute und Ihnen als Leser damit ebenso Diese Neuauflage wurde durchgehend berarbeitet und aktualisiert und ber cksichtigt die Java Versionen 9 bis 15 Ansonsten wurde der bew hrte Themenmix der Vorauflagen beibehalten Grundlagen Analyse und Design Professionelle Arbeitsumgebung Objektorientiertes Design Lambdas Java Grundlagen Bausteine stabiler Java Applikationen Collections Framework Stream API Datumsverarbeitung seit JDK 8

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Mockito Cookbook Marcin Grzejszczak,2014-01-01 This is a focused guide with lots of practical recipes with presentations of business issues and presentation of the whole test of the system This book shows the use of Mockito s popular unit testing frameworks such as JUnit PowerMock TestNG and so on If you are a software developer with no testing experience especially with Mockito and you want to start using Mockito in the most efficient way then this book is for you This book assumes that you have a good knowledge level and understanding of Java based unit testing frameworks

Mockito Techniques for Effective Unit Testing Richard Johnson,2025-06-11 Mockito Techniques for Effective Unit Testing Unlock the full potential of unit testing in Java with Mockito Techniques for Effective Unit Testing This comprehensive guide offers a deep dive into the essential and advanced capabilities of Mockito the industry standard mocking framework providing software engineers and test architects with a practical roadmap for designing robust maintainable and scalable test suites Beginning with a thorough exploration of mocking fundamentals the book details Mockito s architecture configuration best practices for modern build environments and seamless integration with leading testing frameworks such as JUnit and TestNG With emphasis on SOLID principles and sound test design readers gain a toolkit to efficiently isolate code under test while ensuring high code quality and confidence in every release Progressing into sophisticated test scenarios the book addresses the nuances of advanced mock and spy strategies from dynamic mock creation and deep stubbing of complex object graphs to the challenges of mocking static final and private methods It navigates verification modes partial implementation patterns and best practices for argument capturing and BDD workflows Special attention is given to the intricacies of testing distributed systems microservices asynchronous code and event driven architectures providing actionable strategies for handling concurrency time based logic and integration points across various layers and paradigms of modern Java applications Beyond technical prowess Mockito Techniques for Effective Unit Testing covers the organizational and ecosystem dimensions vital for sustained testing excellence Readers will discover expert techniques for structuring large scale test suites refactoring legacy code ensuring compliance and security in test environments and extending Mockito for bespoke needs Detailed guidance on optimizing performance leveraging code coverage and static analysis tools and integrating with CI CD pipelines empowers teams to deliver resilient well tested software in fast paced

evolving environments This book is an invaluable resource for anyone seeking to elevate their test automation strategy and master Mockito as a cornerstone of professional Java development **Mastering Unit Testing Using Mockito and JUnit** Sujoy Acharya,2014-07-15 A practical and easy to follow yet comprehensive guide to learning advanced JUnit testing Each topic is explained and placed in context and for the more inquisitive there are more details of the concepts used 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 **Mastering Unit Testing Using Mockito and Junit** Sujoy Acharya,2014-01-01 A practical and easy to follow yet comprehensive guide to learning advanced JUnit testing Each topic is explained and placed in context and for the more inquisitive there are more details of the concepts used 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 Mockito Cookbook Marcin Grzejszczak,2014-06-24 This is a focused guide with lots of practical recipes with presentations of business issues and presentation of the whole test of the system This book shows the use of Mockito s popular unit testing frameworks such as JUnit PowerMock TestNG and so on If you are a software developer with no testing experience especially with Mockito and you want to start using Mockito in the most efficient way then this book is for you This book assumes that you have a good knowledge level and understanding of Java based unit testing frameworks **Java EE 8 and Angular** Prashant Padmanabhan,2018-01-11 Learn how to build high performing enterprise applications using Java EE powered by Angular at the frontend Key Features Leverage Java EE 8 features to build robust backend for your enterprise applications Use Angular to build a single page frontend and combine it with the Java EE backend A practical guide filled with ample real world examples Book Description The demand for modern and high performing web enterprise applications is growing rapidly No more is a basic HTML frontend enough to meet customer demands This book will be your one stop guide to build outstanding enterprise web applications with Java EE and Angular It will teach you how to harness the power of Java EE to build sturdy backends while applying Angular on the frontend Your journey to building modern web enterprise applications starts here The book starts with a brief introduction to the fundamentals of Java EE and all the new APIs offered in the latest release Armed with the knowledge of Java EE 8 you will go over what it s like to build an end to end application configure database connection for JPA and build scalable microservices using RESTful APIs running in Docker containers Taking advantage of the Payara Micro capabilities you will build an Issue Management System which will have various features exposed as services using the Java EE backend With a detailed coverage of Angular fundamentals the book will expand the Issue Management System by building a modern single page application frontend Moving forward you will learn to fit both the

pieces together that is the frontend Angular application with the backend Java EE microservices As each unit in a microservice promotes high cohesion you will learn different ways in which independent units can be tested efficiently Finishing off with concepts on securing your enterprise applications this book is a handson guide for building modern web applications What you will learn Write CDI based code in Java EE 8 applications Build an understanding of microservices and what they mean in a Java EE context Employ Docker to build and run microservice applications Use configuration optionsto work effectively with JSON documents Handle asynchronous task and write RESTAPI clients Set the foundation for working on Angular projects with the fundamentals of TypeScript Learn to use Angular CLI to add and manage new features Secure Angular applicationsusing malicious attacks adopting JSON Web tokens Who this book is for This book is for Java EE developers who would like to build modern enterprise web applications using Angular No knowledge of Angular is required

Mockito Essentials Sujoy Acharya,2014-10-24 This book is ideal for developers who have some experience in Java application development as well as some basic knowledge of test doubles and JUnit testing This book also introduces you to the fundamentals of JUnit testing test doubles refactoring legacy code and writing JUnit tests for GWT and web services

JUnit 5 Havelka Arnošt,Pecinovský Rudolf,2018-10-30 Nez le na tom jestli je jednotkov testov n v denn chleba nebo zda se jako program to i s touto problematikou teprve seznamujete p ru ku v novanou obl ben mu frameworku JUnit 5 toti ocen te v ka d m p pad Mastering Unit Testing Using Mockito and Junit Handbook Henry Burned,2017-06-07 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 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 Instant Mockito Marcin Grzejszczak,2013 Filled with practical step by step instructions and clear explanations for the most important and useful tasks This is a standard tutorial based guide using plenty of examples for illustration Instant Mockito is ideal for developers new to unit testing who are looking to get to know how to create high quality tests using Mockito It s assumed that you will have some experience in Java already Unit Testing in Java Johannes Link,2003-06-03 Software testing is indispensable and is one of the most discussed topics in software development today Many companies address this issue by assigning a dedicated software testing phase towards the end of their development cycle However quality cannot be tested into a buggy application Early and continuous unit testing has been shown to be crucial for high quality software and low defect rates Yet current books on testing ignore the developer s point of view and give little guidance on how to bring the overwhelming amount of testing theory into practice Unit Testing in Java represents a practical introduction to unit testing for software developers It

introduces the basic test first approach and then discusses a large number of special issues and problem cases The book instructs developers through each step and motivates them to explore further Shows how the discovery and avoidance of software errors is a demanding and creative activity in its own right and can build confidence early in a project Demonstrates how automated tests can detect the unwanted effects of small changes in code within the entire system Discusses how testing works with persistency concurrency distribution and web applications Includes a discussion of testing with C and Smalltalk **Mockito Made Clear** Ken Kousen,2023 Mockito is the most popular framework in the Java world for automating unit testing with dependencies Learn the Mockito API and how and when to use stubs mocks and spies On a deeper level discover why the framework does what it does and how it can simplify unit testing in Java Using Mockito you ll be able to isolate the code you want to test from the behavior or state of external dependencies without coding details of the dependency You ll gain insights into the Mockito API save time when unit testing and have confidence in your Java programs If you ve only ever run a few JUnit tests or injected stubs into classes to return preset values it s time to level up your Java toolbox Dependencies on other classes and external resources can obscure issues and make bugs hard to detect You need to test classes in isolation to truly pinpoint your problems And while you could write dummy classes to replace dependencies yourself Mockito automates the process and helps you fix your code faster Start with the Mockito API to generate fake classes for dependencies configure how each should respond when their methods are called and verify that the class under test interacts with dependencies the way you d expect Next build unit tests with the Mockito framework and feel confident not just that methods are called but that they are called the correct number of times and in the correct order Along the way follow clear test examples based on JUnit 5 to create stubs mocks and spies and find the source of any problems lurking in Java classes Save time write better code and have more confidence in your Java programs with Mockito **Mockito Tutorial** Ranga Karanam,2018 Writing great unit tests distinguishes good programmers from great programmers In this course you will learn how to write great unit tests with Mockito and JUnit You take 12 steps with JUnit and 18 steps with Mockito into unit testing proficiency Resource description page **Test Driven Development with Mockito** Sujoy Acharya,2013-11 This book is a hands on guide full of practical examples to illustrate the concepts of Test Driven Development If you are a developer who wants to develop software following Test Driven Development using Mockito and leveraging various Mockito features this book is ideal for you You don t need prior knowledge of TDD Mockito or JUnit It is ideal for developers who have some experience in Java application development as well as a basic knowledge of unit testing but it covers the basic fundamentals of TDD and JUnit testing to get you acquainted with these concepts before delving into them **Instant Mock Testing with PowerMock** Deep Shah,2013 Filled with practical step by step instructions and clear explanations for the most important and useful tasks A concise guide full of step by step recipes to teach you how you can use PowerMock to unit test code If you are a beginner who would like to learn how to use PowerMock this is the perfect guide for

you As the book comprehensively covers both basic and advanced concepts this guide is also suitable for those of you who have an intermediate knowledge of PowerMock

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