

mockito-demo

src

main

java

TodoServiceImpl

Project

TodoService.java

TodoServiceImpl.java

1

import java.util.ArrayList;

2

import java.util.List;

3

4

public class TodoServiceImpl {

5

6

// Creating a reference of

7

// TodoService interface

8

private TodoService todoService;

9

10

// Generating a constructor

11

public TodoServiceImpl(TodoService todoService) {

12

this.todoService = todoService;

13

}

14

15

// Writing a simple code for filtering the

16

// string that contains the "Java" keyword

17

public List<String> retrieveTodosRelatedToJava(String keyword) {

18

19

List<String> filteredTodos = new ArrayList<String>();

20

List<String> todos = todoService.retrieveTodos(keyword);

21

22

for (String todo: todos) {

23

if (todo.contains(keyword)) {

24

filteredTodos.add(todo);

25

}

26

}

27

return filteredTodos;

28

}

29

}

30

Show Context Actions

Alt+Enter

☒ Paste

Ctrl+V

Copy / Paste Special

>

Column Selection Mode

Alt+Shift+Insert

Find Usages

Alt+F7

Refactor

>

Folding

>

Analyze

>

Go To

>

Generate...

Alt+Insert

Open In

>

Local History

>

Compare with Clipboard

Create Gist...

Version Control

Run

TODO

Problems

Debug

Dependencies

Build

Terminal

☐ Generate constructor, getter or setter method, etc.

# Mock Java

**Didier Musso**



## **Mock Java:**

*Mockito Made Clear* Ken Kousen, 2023-01-24 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. What You Need In this book, we use Mockito 4, the latest version of the Mockito framework, but the concepts and the code work on versions 2 and 3. The tests are based on JUnit 5, known as Jupiter. There are some differences in JUnit 4, but none of those affect Mockito directly. The underlying Java version is 11, but the provided tests in the GitHub repository will work successfully for any version of Java above that, including the current Long Term Support version 17. **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. **Java Open Source**

**Programming** Joseph Walnes, Ara Abrahamian, Mike Cannon-Brookes, Patrick A. Lightbody, 2004-02-03 Discover how to develop full-scale J2EE™ applications quickly and efficiently using the best Open Source tools. Written by leading authorities in the field, this book shows you how to leverage a suite of best-of-breed Open Source development tools to take the pain out of J2EE and build a complete Web-based application. You'll combine these tools to actually reduce the points of failure in your application while increasing overall system stability and robustness. Along with the tools introduced here, you'll develop the PetSoar application, which follows the PetStore application used by Sun Microsystems to demonstrate features of J2EE. With PetSoar, the authors focus on developing a maintainable and flexible application rather than showcasing the end result so that you can apply the material in your own projects. In addition, the authors provide methods for utilizing Open

Source software components for each stage of the development process The Open Source products covered include Hibernate to aid with simple flexible and speedy transparent object persistence OpenSymphony WebWork to allow for pluggable view technologies and extensible configuration JUnit and Mock Objects to assist with rapid and robust unit testing XDoclet to assist with generating code and configuration files automatically Jakarta Lucene to add Google style smart search capabilities to data stores OpenSymphony SiteMesh to aid in the creation of large sites with a common look and feel

OpenSymphony OSCache to easily cache slow dynamic sections of Web sites resulting in faster loading pages

**Making Java Groovy** Kenneth Kousen, 2013-09-18 Summary Making Java Groovy is a practical handbook for developers who want to blend Groovy into their day to day work with Java It starts by introducing the key differences between Java and Groovy and how you can use them to your advantage Then it guides you step by step through realistic development challenges from web applications to web services to desktop applications and shows how Groovy makes them easier to put into production About this Book You don t need the full force of Java when you re writing a build script a simple system utility or a lightweight web app but that s where Groovy shines brightest This elegant JVM based dynamic language extends and simplifies Java so you can concentrate on the task at hand instead of managing minute details and unnecessary complexity Making Java Groov is a practical guide for developers who want to benefit from Groovy in their work with Java It starts by introducing the key differences between Java and Groovy and how to use them to your advantage Then you ll focus on the situations you face every day like consuming and creating RESTful web services working with databases and using the Spring framework You ll also explore the great Groovy tools for build processes testing and deployment and learn how to write Groovy based domain specific languages that simplify Java development Written for developers familiar with Java No Groovy experience required Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications What s Inside Easier Java Closures builders and metaprogramming Gradle for builds Spock for testing Groovy frameworks like Grails and Griffon About the Author Ken Kousen is an independent consultant and trainer specializing in Spring Hibernate Groovy and Grails Table of Contents PART 1 UP TO SPEED WITH GROOVY Why add Groovy to Java Groovy by example Code level integration Using Groovy features in Java PART 2 GROOVY TOOLS Build processes Testing Groovy and Java projects PART 3 GROOVY IN THE REAL WORLD The Spring framework Database access RESTful web services Building and testing web applications

**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

Java 2 Programmer William B. Brogden, Marcus Green, 2003 This book focuses on what is needed to get certified in the Java 2 programmer exam It features test taking strategies time saving study tips and a special CramSheet that includes tips acronyms and memory joggers

*JRuby Cookbook* Justin Edelson, Henry Liu, 2008-11-06 If you re interested in JRuby you probably don t need a tutorial on Ruby Rails or Java you just need to know how to get things done This Cookbook offers practical solutions for using the Java implementation of the Ruby language with targeted recipes for deploying Rails web applications on Java servers integrating JRuby code with Java technologies developing JRuby desktop applications with Java toolkits and more Using numerous reusable code samples JRuby Cookbook shows you how to Install and update JRuby on Windows Mac OS X and Linux and IDEs such as NetBeans and Eclipse Package and deploy Rails apps on Java Servlet containers and Java EE application servers including JBoss Tomcat and GlassFish Integrate Ruby and Rails applications with popular Java EE technologies such as JMS JMX JPA Spring and Hibernate Develop desktop and client applications with cross platform Java UI technologies and toolkits such as Swing SWT and Java 2D Maximize the flexibility of your testing and build environment using both existing Java based tools such as Ant and Maven and newer Ruby based tools such as Rake Raven and Buildr The JRuby interpreter combines Ruby s simplicity and ease of use with Java s extensive libraries and technologies a potent blend that opens new possibilities for Ruby Rails and Java This Cookbook helps you take full advantage of JRuby s potential The JRuby Cookbook is an excellent book for any polyglot who is trying to bridge the gap between Java and Ruby It provides solutions to specific problems developers face in both their development and testing environments along with the

applications they're building Bob McWhirter Research Prototyping Red Hat Middleware      **Agile Testing** John Watkins, 2009-07-27 In an IT world in which there are differently sized projects with different applications differently skilled practitioners and on site off site and off shored development teams it is impossible for there to be a one size fits all agile development and testing approach This book provides practical guidance for professionals practitioners and researchers faced with creating and rolling out their own agile testing processes In addition to descriptions of the prominent agile methods the book provides twenty real world case studies of practitioners using agile methods and draws upon their experiences to propose your own agile method whether yours is a small medium large off site or even off shore project this book provides personalized guidance on the agile best practices from which to choose to create your own effective and efficient agile method      *Scalable Android Applications in Kotlin* Myles Bennett , 2024-09-23 DESCRIPTION Kotlin a modern and expressive language has revolutionized Android app development As the app complexity grows building scalable and maintainable Android apps becomes crucial This book is a complete guide to modern Android app development using Kotlin It covers key concepts like clean architecture and dependency injection for building strong maintainable apps This book will also help you learn how to use Kotlin DSL for build configuration and Jetpack Compose for creating user interfaces It also covers testing debugging networking and API integration With best practices and real world examples this book will help developers create high quality Android apps using Kotlin By the end of this book you will be equipped with the knowledge and skills to architect develop and deploy scalable Android apps using Kotlin You will confidently tackle complex app development challenges write clean efficient and testable code and become a proficient Android developer KEY FEATURES Learn Kotlin and Jetpack Compose essentials Understand how to apply feature oriented separation of concerns Use cross platform technologies to achieve a clean code architecture Perfect control of Jetpack Compose UI with unidirectional flow Discover how to engineer an application from inception to release WHAT YOU WILL LEARN Kotlin and Jetpack Compose fundamentals Feature oriented separation of concerns Clean code architecture in Android Kotlin specific test driven development Multi module project organization Tips and techniques for debugging Continuous integration and releasing applications WHO THIS BOOK IS FOR This book can be understood by novice developers but will also benefit intermediate seasoned professionals in the Android space This book is a must have for Android developers software engineers and mobile app developers striving to create exceptional applications TABLE OF CONTENTS 1 Introduction to Kotlin for Android 2 Breaking Down App Code with Separation of Concerns 3 Feature Oriented Development in Android 4 Clean Code Architecture 5 Cross Platform App Development 6 Dependency Injection 7 Introduction to Jetpack Compose 8 Presentation Layer Evolution in Compose 9 Test Driven Development with Mocking Libraries for Android 10 Kotlin DSL and Multimodule Apps 11 Creating the Module Hierarchy 12 Networking and APIs in Kotlin 13 Creating UI with Jetpack Compose 14 Debugging in Kotlin 15 Test Automation 16 Building and Distributing Applications      **Building Web Apps with Spring 5**

**and Angular** Ajitesh Shukla,2017-08-24 A complete guide to build robust and scalable web applications with Spring and Angular About This Book This hands on guide will teach you how to build an end to end modern web application using Spring and Angular It is easy to read and will benefit Java developers who have been used to develop the back end part of web application while front end UI has been left for UI developers Learn the core aspects involved in developing the backend and the UI right from designing to integrating and deploying Who This Book Is For This book is targeted towards Java Web Developers with a basic knowledge of Spring who want to build complete web applications in a fast and effective way They will want to gain a stronghold on both frontend and backend development to advance in their careers What You Will Learn Set up development environment for Spring Web App and Angular app Process web request and response and build REST API endpoints Create data access components using Spring Web MVC framework and Hibernate Use Junit 5 to test your application Learn the fundamental concepts around building Angular Configure and use Routes and Components Protect Angular app content from common web vulnerabilities and attacks Integrate Angular apps with Spring Boot Web API endpoints Deploy the web application based on CI and CD using Jenkins and Docker containers In Detail Spring is the most popular application development framework being adopted by millions of developers around the world to create high performing easily testable reusable code Its lightweight nature and extensibility helps you write robust and highly scalable server side web applications Coupled with the power and efficiency of Angular creating web applications has never been easier If you want build end to end modern web application using Spring and Angular then this book is for you The book directly heads to show you how to create the backend with Spring showing you how to configure the Spring MVC and handle Web requests It will take you through the key aspects such as building REST API endpoints using Hibernate working with Junit 5 etc Once you have secured and tested the backend we will go ahead and start working on the front end with Angular You will learn about fundamentals of Angular and Typescript and create an SPA using components routing etc Finally you will see how to integrate both the applications with REST protocol and deploy the application using tools such as Jenkins and Docker Style and approach This is a straightforward guide that shows how to build a complete web application in Angular and Spring

**Mockito for Spring** Sujoy Acharya,2015-02-25 If you are an application developer with some experience in software testing and want to learn more about testing frameworks then this technology and book is for you Mockito for Spring will be perfect as your next step towards becoming a competent software tester with Spring and Mockito

Effective Software Testing Maurizio Aniche,2022-05-03 Go beyond basic testing Great software testing makes the entire development process more efficient This book reveals a systemic and effective approach that will help you customize your testing coverage and catch bugs in tricky corner cases In Effective Software Testing you will learn how to Engineer tests with a much higher chance of finding bugs Read code coverage metrics and use them to improve your test suite Understand when to use unit tests integration tests and system tests Use mocks and stubs to simplify your unit testing Think of pre conditions post

conditions invariants and contracts Implement property based tests Utilize coding practices like dependency injection and hexagonal architecture that make your software easier to test Write good and maintainable test code Effective Software Testing teaches you a systematic approach to software testing that will ensure the quality of your code It s full of techniques drawn from proven research in software engineering and each chapter puts a new technique into practice Follow the real world use cases and detailed code samples and you ll soon be engineering tests that find bugs in edge cases and parts of code you d never think of testing Along the way you ll develop an intuition for testing that can save years of learning by trial and error About the technology Effective testing ensures that you ll deliver quality software For software engineers testing is a key part of the development process Mastering specification based testing boundary testing structural testing and other core strategies is essential to writing good tests and catching bugs before they hit production About the book Effective Software Testing is a hands on guide to creating bug free software Written for developers it guides you through all the different types of testing from single units up to entire components You ll also learn how to engineer code that facilitates testing and how to write easy to maintain test code Offering a thorough systematic approach this book includes annotated source code samples realistic scenarios and reasoned explanations What s inside Design rigorous test suites that actually find bugs When to use unit tests integration tests and system tests Pre and post conditions invariants contracts and property based tests Design systems that are test friendly Test code best practices and test smells About the reader The Java based examples illustrate concepts you can use for any object oriented language About the author Dr Mauricio Aniche is the Tech Academy Lead at Adyen and an Assistant Professor in Software Engineering at the Delft University of Technology Table of Contents 1 Effective and systematic software testing 2 Specification based testing 3 Structural testing and code coverage 4 Designing contracts 5 Property based testing 6 Test doubles and mocks 7 Designing for testability 8 Test driven development 9 Writing larger tests 10 Test code quality 11 Wrapping up the book      **Spring: A Developer's Notebook** Bruce Tate,Justin Gehtland,2005-04-10 Since development first began on Spring in 2003 there s been a constant buzz about it in Java development publications and corporate IT departments The reason is clear Spring is a lightweight Java framework in a world of complex heavyweight architectures that take forever to implement Spring is like a breath of fresh air to overworked developers In Spring you can make an object secure remote or transactional with a couple of lines of configuration instead of embedded code The resulting application is simple and clean In Spring you can work less and go home early because you can strip away a whole lot of the redundant code that you tend to see in most J2EE applications You won t be nearly as burdened with meaningless detail In Spring you can change your mind without the consequences bleeding through your entire application You ll adapt much more quickly than you ever could before Spring A Developer s Notebook offers a quick dive into the new Spring framework designed to let you get hands on as quickly as you like If you don t want to bother with a lot of theory this book is definitely for you You ll work through one example after another Along the way you ll discover the



energy and promise of the Spring framework This practical guide features ten code intensive labs that ll rapidly get you up to speed You ll learn how to do the following and more install the Spring Framework set up the development environment use Spring with other open source Java tools such as Tomcat Struts and Hibernate master AOP and transactions utilize ORM solutions As with all titles in the Developer s Notebook series this no nonsense book skips all the boring prose and cuts right to the chase It s an approach that forces you to get your hands dirty by working through one instructional example after another examples that speak to you instead of at you

**Building Maintainable Software** Joost Visser,2016 Have you ever felt frustrated working with someone elses code Difficult to maintain source code is a big problem in software development today leading to costly delays and defects Be part of the solution With this practical book youll learn 10 easy to follow guidelines for delivering Java software thats easy to maintain and adapt These guidelines have been derived from analyzing hundreds of real world systems Written by consultants from the Software Improvement Group SIG this book provides clear and concise explanations with advice for turning the guidelines into practice Examples for this edition are written in Java while our companion C book provides workable examples in that language Provided by publisher

*Architecting Blockchain Solutions* Sathvik Vishwanath,2023-01-23 A step by step guide that will help you develop Blockchain solutions from scratch

**KEY FEATURES** Understand the fundamental technologies that enabled the invention of blockchain Get familiar with the working of blockchain and evaluate the implementation possibilities Learn about successful blockchain apps tokens DeFi NFT and Metaverse

**DESCRIPTION** Blockchain uses the distributed ledger technology that allows transactions and data to be recorded shared and synchronized across a distributed network of different network participants The vast untapped potential of this recent popular technology co exists with the high demand for Blockchain Architects across the globe Architecting Blockchain Solutions will help you learn how to unlock blockchain s potential and begin your professional journey as a Blockchain Architect The book covers key concepts and technologies in blockchain including Distributed ledgers Consensus mechanisms and Smart contracts The book also explores the various ways in which blockchain can be used in different industries such as Finance Healthcare and Supply chain management Parallely it also explains the successful implementation of blockchain for Cryptocurrencies Tokens DeFi NFT etc Towards the end the book focuses on hands on topics like creating your tokens on the existing blockchain writing Smart contracts for DeFi creating your own NFTs and many successful implementations Overall this book is a comprehensive guide about blockchain architecture and provides you with the knowledge and skills needed to succeed in this rapidly evolving field

**WHAT YOU WILL LEARN** Get familiar with the core concepts of architecting blockchain solutions Explore and work with programming languages and libraries used for blockchain development Design and maintain the underlying infrastructure for running blockchain networks Learn how to write and test smart contracts Learn how to create cryptocurrencies and NFTs

**WHO THIS BOOK IS FOR** This book is a perfect stepping stone for novice blockchain enthusiasts to truly unlock blockchain s potential It is also for blockchain

architects decentralization enthusiasts and disruptive technology focused professionals who want to design and implement blockchain solutions

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**SoapUI Cookbook** Rupert Anderson, 2015-02-27 This book is aimed at developers and technical testers who are looking for a quick way to take their SoapUI skills and understanding to the next level Even if you are new to SoapUI but have basic Java skills and a reasonable grasp of RESTful and Soap web services then you should have no problem making use of this book

**Expert Android Studio** Murat Yener, Onur Dundar, 2016-08-25 Take your Android programming skills to the next level by unleashing the potential of Android Studio Expert Android Studio bridges the gap between your Android programming skills with the provided tools including Android Studio NDK Gradle and Plugins for IntelliJ Idea Platform Packed with best practices and advanced tips and techniques on Android tools development cycle continuous integration release management testing and performance this book offers professional guidance to experienced developers who want to push the boundaries of the Android platform with the developer tools You will discover how to use the tools and techniques to unleash your true potential as a developer Discover the basics of working in Android Studio and Gradle as well as the application architecture of the latest Android platform Understand Native Development Kit and its integration with Android Studio Complete your development lifecycle with automated tests dependency management continuous integration and release management Writing your own Gradle plugins to customize build cycle Writing your own plugins for Android Studio to help your development tasks Expert Android Studio is a tool for expert and experienced developers who want to learn how to make use of the tools while creating Android applications for use on mobile devices

**Extreme Programming and Agile Methods - XP/Agile Universe 2003** Frank Maurer, Don Wells, 2011-04-08 XP Agile Universe 2003 is the third conference in a series running in North America and attracting participants from all over the world who are interested in the research development and application of agile software processes Agile approaches value people and interaction over processes and tools moving software engineering from the process oriented software development approaches of the 1990s towards people oriented approaches that we are starting to see more and more in this decade Agile approaches stress a holistic view of software developers as being involved in analysis design implementation and testing activities while more traditional Tayloristic approaches separate these tasks and assign

them to different resources Tayloristic approaches create knowledge sharing problems as information gathered by one person needs to be handed over usually in the form of documentation to the next person in the chain Agile approaches reduce the number of hand offs and thus decrease the amount of required documentation for knowledge sharing While deemed a novelty only a few years ago agile methods are now becoming established in the software industry and are being applied in more and more application domains While agile approaches move into the mainstream of software organizations we are only now beginning to understand their benefits areas of applicability and also their dangers This year's conference will increase this understanding and provide a better base for industry practitioners as they assess the effectiveness of agile methods in their environment

*JUnit in Action* Catalin Tudose, 2020-11-16 JUnit in Action Third Edition has been completely rewritten for this release The book is full of examples that demonstrate JUnit's modern features including its new architecture nested tagged and dynamic tests and dependency injection Summary JUnit is the gold standard for unit testing Java applications Filled with powerful new features designed to automate software testing JUnit 5 boosts your productivity and helps avoid debugging nightmares Whether you're just starting with JUnit or you want to ramp up on the new features JUnit in Action Third Edition has you covered Extensively revised with new code and new chapters JUnit in Action Third Edition is an up to date guide to smooth software testing Dozens of hands on examples illustrate JUnit 5's innovations for dependency injection nested testing parameterized tests and more Throughout you'll learn how to use JUnit 5 to automate your testing for a process that consumes less resources and gives you more time for developing Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology The JUnit framework is the gold standard for unit testing Java applications and knowing it is an essential skill for Java developers The latest version JUnit 5 is a total overhaul now supporting modern Java features like Lambdas and Streams About the book JUnit in Action Third Edition has been completely rewritten for this release The book is full of examples that demonstrate JUnit's modern features including its new architecture nested tagged and dynamic tests and dependency injection You'll benefit from author Catalin Tudose's unique pyramid testing strategy which breaks the testing process into layers and sets you on the path to bug free code creation What's inside Migrating from JUnit 4 to 5 Effective test automation Test driven development and behavior driven development Using mocks for test isolation Connecting JUnit 5 with Maven or Gradle About the reader For intermediate Java developers About the author Catalin Tudose has a Ph.D in Computer Science and over 15 years of experience as a Senior Java Developer and Technical Team Lead Previous editions were authored by Petar Tahchiev Felipe Leme Gary Gregory and Vincent Massol Table of Contents PART 1 JUNIT 1 JUnit jump start 2 Exploring core JUnit 3 JUnit architecture 4 Migrating from JUnit 4 to JUnit 5 5 Software testing principles PART 2 DIFFERENT TESTING STRATEGIES 6 Test quality 7 Coarse grained testing with stubs 8 Testing with mock objects 9 In container testing PART 3 WORKING WITH JUNIT 5 AND OTHER TOOLS 10 Running JUnit tests from Maven 3 11 Running JUnit tests from Gradle 6 12 JUnit 5 IDE

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Modernizing Applications with IBM CICS Russell Bonner, Sophie Green, Ezriel Gross, Jim Harrison, Debra Scharfstein, Will Yates, IBM Redbooks, 2020-12-30 IBM CICS is a mixed language application server that runs on IBM Z. Over the 50 years since CICS was introduced in 1969 enterprises have used the qualities of service QoSs that CICS provides to allow them to create high throughput and secure transactional applications that have powered their business. As the IT landscape has evolved so has CICS to allow these applications to integrate with new platforms and still provide value to the rest of the business. Because of this capability many businesses still rely on CICS to power their core applications. This IBM Redpaper publication focuses on modernizing these CICS applications allowing them to integrate with cloud native applications. This modernization can be achieved either by constructing application programming interfaces APIs that allow new cloud native applications to connect to your existing assets, rewriting parts of your application in newer languages and hosting them back on CICS, or by using CICS capabilities to extend your applications to provide new capabilities and functions. The paper takes a traditional example application and shows you how it works. Then the paper extends the example, rewrites portions of its functions, and enables its APIs. It also explains how CICS applications can use continuous integration CI and continuous delivery CD to deliver test and deploy code into CICS easily and with quality.

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### Mock Java Introduction

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