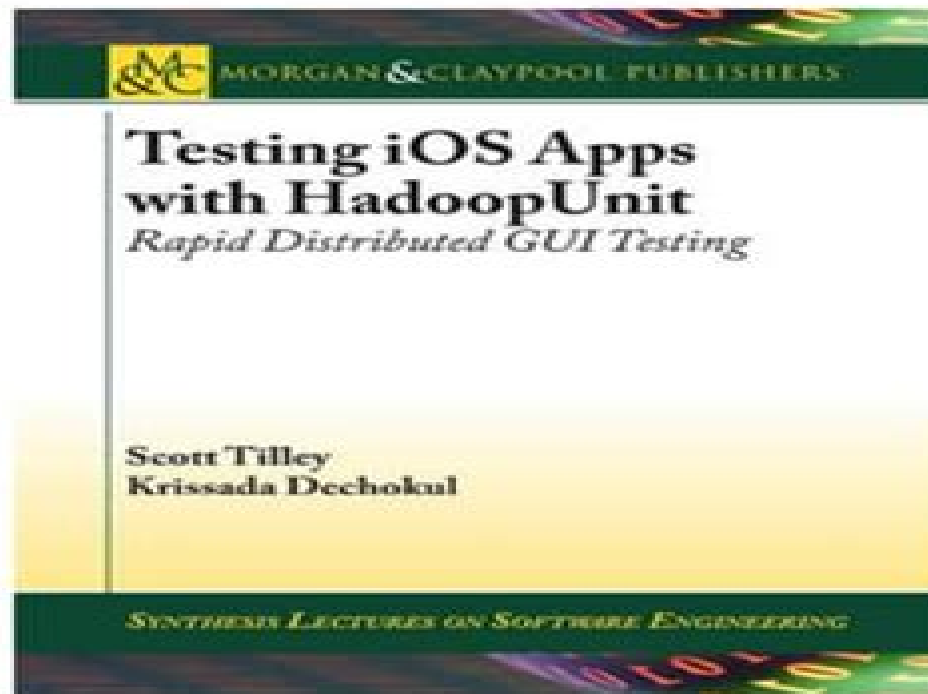


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Testing Ios Apps With Hadoopunit Rapid Distributed Gui Testing:

Testing iOS Apps with HadoopUnit Scott Tilley, Krissada Dechokul, 2014-11-01 Smartphone users have come to expect high quality apps. This has increased the importance of software testing in mobile software development. Unfortunately, testing apps, particularly the GUI, can be very time consuming. Exercising every user interface element and verifying transitions between different views of the app under test quickly becomes problematic. For example, execution of iOS GUI test suites using Apple's UI Automation framework can take an hour or more if the app's interface is complicated. The longer it takes to run a test, the less frequently the test can be run, which in turn reduces software quality. This book describes how to accelerate the testing process for iOS apps using HadoopUnit, a distributed test execution environment that leverages the parallelism inherent in the Hadoop platform. HadoopUnit was previously used to run unit and system tests in the cloud. It has been modified to perform GUI testing of iOS apps on a small scale cluster, a modest computing infrastructure available to almost every developer. Experimental results have shown that distributed test execution with HadoopUnit can significantly outperform the test execution on a single machine, even if the size of the cluster used for the execution is as small as two nodes. This means that the approach described in this book could be adopted without a huge investment in IT resources. HadoopUnit is a cost effective solution for reducing lengthy test execution times of system level GUI testing of iOS apps.

Testing iOS Apps with HadoopUnit Scott Tilley, Krissada Dechokul, 2022-05-31 Smartphone users have come to expect high quality apps. This has increased the importance of software testing in mobile software development. Unfortunately, testing apps, particularly the GUI, can be very time consuming. Exercising every user interface element and verifying transitions between different views of the app under test quickly becomes problematic. For example, execution of iOS GUI test suites using Apple's UI Automation framework can take an hour or more if the app's interface is complicated. The longer it takes to run a test, the less frequently the test can be run, which in turn reduces software quality. This book describes how to accelerate the testing process for iOS apps using HadoopUnit, a distributed test execution environment that leverages the parallelism inherent in the Hadoop platform. HadoopUnit was previously used to run unit and system tests in the cloud. It has been modified to perform GUI testing of iOS apps on a small scale cluster, a modest computing infrastructure available to almost every developer. Experimental results have shown that distributed test execution with HadoopUnit can significantly outperform the test execution on a single machine, even if the size of the cluster used for the execution is as small as two nodes. This means that the approach described in this book could be adopted without a huge investment in IT resources. HadoopUnit is a cost effective solution for reducing lengthy test execution times of system level GUI testing of iOS apps.

Distributed GUI Testing of IOS Applications with HadoopUnit Krissada Dechokul, 2014 Smartphones have become an important medium of communication for millions of people. They have come to expect high quality mobile applications which have increased the importance of software testing in modern software development. While software testing can ensure

the quality of a system under test SUT it has suffered from lengthy execution time especially for system level GUI testing In general system level GUI testing can be time consuming because it requires walking through every user interface element and every possible variation that users could experience through the GUI of the application In addition this type of testing exercises the SUT from the outside of the applications meaning that it has to constantly wait for the drawing of UI components delays in transitions between different views and animations throughout the test execution Currently with UI Automation a popular testing framework from Apple for iOS applications test execution of iOS GUI test suites can take an hour or more to execute if the GUI of the application is complicated This amount of time is significant if the testing needs to be performed frequently throughout the software development life cycle More time means less frequent testing which in turn reduces software quality In this thesis the test process is accelerated by migrating the current test execution environment to a distributed execution environment called HadoopUnit HadoopUnit has been adopted to perform GUI testing of iOS applications on a small scale Hadoop cluster Experimental results have shown that distributed test execution with HadoopUnit can significantly outperform the test execution on a single machine even if the size of the cluster used for the execution is as small as two nodes This means that the work of this thesis could be adopted without a huge investment in IT resources making HadoopUnit a cost effective solution for reducing lengthy test execution time of system level GUI testing

Test-Driven iOS Development Graham Lee, 2012-04-12 As iOS apps become increasingly complex and business critical iOS developers must ensure consistently superior code quality This means adopting best practices for creating and testing iOS apps Test Driven Development TDD is one of the most powerful of these best practices Test Driven iOS Development is the first book 100% focused on helping you successfully implement TDD and unit testing in an iOS environment Long time iOS Mac developer Graham Lee helps you rapidly integrate TDD into your existing processes using Apple's Xcode 4 and the OCUit unit testing framework He guides you through constructing an entire Objective C iOS app in a test driven manner from initial specification to functional product Lee also introduces powerful patterns for applying TDD in iOS development and previews powerful automated testing capabilities that will soon arrive on the iOS platform Coverage includes Understanding the purpose benefits and costs of unit testing in iOS environments Mastering the principles of TDD and applying them in areas from app design to refactoring Writing usable readable and repeatable iOS unit tests Using OCUit to set up your Xcode project for TDD Using domain analysis to identify the classes and interactions your app needs and designing it accordingly Considering third party tools for iOS unit testing Building networking code in a test driven manner Automating testing of view controller code that interacts with users Designing to interfaces not implementations Testing concurrent code that typically runs in the background Applying TDD to existing apps Preparing for Behavior Driven Development BDD The only iOS specific guide to TDD and unit testing Test Driven iOS Development covers both essential concepts and practical implementation IOS Unit Testing by Example Jon Reid, 2020 Fearlessly change the design of your

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Ios Unit Testing by Example Jon Reid, 2019-12-05 Fearlessly change the design of your iOS code with solid unit tests Use Xcode's built in test framework XCTest and Swift to get rapid feedback on all your code including legacy code Learn the tricks and techniques of testing all iOS code especially view controllers UIViewControllers which are critical to iOS apps Learn to isolate and replace dependencies in legacy code written without tests Practice safe refactoring that makes these tests possible and watch all your changes get verified quickly and automatically Make even the boldest code changes with complete confidence Manual code and UI testing get slower the deeper your navigation hierarchy goes It can take several taps just to reach a particular screen never mind the actual workflow tests Automatic unit testing offers such rapid feedback that it can change the rules of development Bring testing to iOS development even for legacy code Use XCTest to write unit tests in Swift for all your code iOS developers typically reserve unit tests for their model classes alone But that approach skips most of the code common to iOS apps especially with UIViewControllers Learn how to unit test these view controllers to expand your unit testing possibilities Since good unit tests form the bedrock for safe refactoring you're empowered to make bold changes Learn how to avoid the most common mistakes Swift programmers make with the XCTest framework Use code coverage to find holes in your test suites Learn how to identify hard dependencies Reshape the design of your code quickly with less risk and less fear

Pro iOS Testing Avi Tsadok, 2020-10-20 Discover what tools there are for unit testing in iOS and how to work in a test driven environment This book reveals how testing is a crucial capability in any iOS developer's toolset and a minimum requirement in iOS interviews A few years ago tests on mobile platforms were not very popular It wasn't a technical constraint more a cultural one But these days it's a crucial skill set especially when projects become big and hard to maintain This book shows you how to set up

a testing target in XCode unit tests You ll learn how to write unit tests properly and incorporate concepts like spies and mocks and code coverage You ll also learn the philosophy behind the architecture of UI tests and how to mock network and DB layers in testing Write unbreakable UI tests performance tests as well And learn the difference between integration tests and snapshot testing This book will show you how to maintain code that s not only bug free but will also remain high quality over time and maintainable while you make changes and refactors during an app s life Testing in all its aspects is the best way of maintaining iOS projects to run fast and reliably long after you ve released them Many iOS developers working today lack an understanding of the advantages of testing and might be unfamiliar with tools that make the job easier such as XCTest framework With Pro iOS Testing you ll see how to develop and test apps that work and stay working for a long time What You ll Learn Set up a stable testing system Extend an app s lifetime with testing before release Incorporate testing into your everyday development routine Write unbreakable UI tests performance tests Understand the difference between integration tests and snapshot testing Who This Book Is For Professional iOS developers with extensive experience in the basics of building apps Modularizing Legacy Projects Using TDD Khaled El-Morabea,Hassaan El-Garem,2021-10-26 Improve current or new projects with top notch testability and maintainability Writing tests improves the design of your apps as it pushes you to have a more modularized design This in turn improves the maintainability and sustainability of your apps This book is for iOS developers who already know the basics of iOS and Swift development but want to learn all the testing pro features in iOS You ll start by reviewing the TDD Cycle and how to implement these concepts on a legacy project or a new one You ll then walk through TDD step by step on a blank project including setting up test targets assertions and expectations You ll follow that with all levels of testing such as unit tests integration tests and end to end tests and also tackle fairly complex yet badly written legacy code The book will take you through the journey of modularizing a legacy app using TDD Throughout this journey you will be introduced to multiple testing concepts and techniques like writing tests for network and core data layers You will write tests to ensure the thread safety of your app And you ll add a new feature while you are in the middle of refactoring which is an important skill so you can keep adding features while you are fixing your technical debt By the end of this book you will have all the tools needed to become a testing master What You ll Learn Use mocking and dependency injection to make components more testable Write tests for asynchronous code like network code Add new features to existing legacy apps using TDD Who This Book Is For Experienced iOS developers who care about software quality and meeting customer expectations **Test IOS Apps with UI Automation** Jonathan Penn,2013

Test-Driven iOS Development with Swift Dr. Dominik Hauser,2016-02-22 Create fully featured and highly functional iOS apps by writing tests first About This Book Learn test driven principles to help you build apps with fewer bugs and better designs Become more efficient while working with Swift to move on to your next project faster Learn how to incorporate all of the principles of test driven development TDD in to your daily programming workflow Who This Book Is For If debugging

iOS apps is a nerve racking task for you and you are looking for a fix this book is for you

What You Will Learn

- Implement TDD in swift application development
- span Get to know the fundamentals life cycle and benefits of TDD
- span Explore the tools and frameworks to effectively use TDD
- span Develop models and controllers driven by tests
- span Construct the network layer using stubs
- span Use functional tests to ensure the app works as planned
- span Automate and streamline the building analysing testing and archiving of your iOS apps

In Detail

Test driven development TDD is a proven way to find software bugs early

Writing tests before your code improves the structure and maintainability of your app

Test driven iOS Development with Swift will help you understand the process of TDD and how it impacts your applications written in Swift

Through practical real world examples you ll start seeing how to implement TDD in context

We will begin with an overview of your TDD workflow and then deep dive into unit testing concepts and code cycles

We will showcase the workings of functional tests which will help you improve the user interface

Finally you will learn about automating deployments and continuous integration to run an environment

Style and approach

This is an easy to follow example driven tutorial packed with lots of tips and tricks that explore TDD bit by bit in the process of making an iOS application

[IOS Test-Driven Development by Tutorials \(First Edition\): Learn Real-World Test-Driven Development](#)

Joshua Greene,Michael Katz, Raywenderlich Tutorial Team, 2019-12-02

Learn how to test iOS Applications

iOS Test Driven Development introduces you to a broad range of concepts with regard to not only writing an application from scratch with testing in mind but also applying these concepts to already written applications which have little or no tests written for their functionality

Who This Book Is For

This book is for intermediate iOS developers who already know the basics of iOS and Swift development but want to learn how to write code which is both testable and maintainable

Topics Covered in iOS Test Driven Development

- The TDD Cycle
- Learn the concepts of Test Driven Development and how to implement these concepts within an iOS application
- Test Expressions and Expectations
- Learn how to test both synchronous code using expressions and asynchronous code using expectations
- Test RESTful Networking
- Write tests to verify networking endpoints and the ability to mock the returned results
- Test Authentication
- Write tests which run against authenticated endpoints
- Legacy Problems
- Explore the problems legacy applications written without any unit tests or without thought of testing the code
- Breaking Dependencies into Modules
- Learn how to take dependencies within your code and compartmentalize these into their own modules with their own tests
- Refactoring Large Classes
- Learn how to refactor large unweilding classes into smaller more manageable and testable classes

objects

One thing you can count on after reading this book you ll be prepared to write testable applications which you can have confidence in making changes too with the knowledge your tests will catch breaking changes

[Hands-On Mobile App Testing](#)

Daniel Knott, 2015-05-08

The First Complete Guide to Mobile App Testing and Quality Assurance

Start to Finish

Testing Solutions for Both Android and iOS

Today mobile apps must meet rigorous standards of reliability usability security and performance

However many mobile developers have limited testing experience and mobile platforms raise new

challenges even for long time testers Now Hands On Mobile App Testing provides the solution an end to end blueprint for thoroughly testing any iOS or Android mobile app Reflecting his extensive real life experience Daniel Knott offers practical guidance on everything from mobile test planning to automation He provides expert insights on mobile centric issues such as testing sensor inputs battery usage and hybrid apps as well as advice on coping with device and platform fragmentation and more If you want top quality apps as much as your users do this guide will help you deliver them You ll find it invaluable whether you re part of a large development team or you are the team Learn how to Establish your optimal mobile test and launch strategy Create tests that reflect your customers data networks devices and business models Choose and implement the best Android and iOS testing tools Automate testing while ensuring comprehensive coverage Master both functional and nonfunctional approaches to testing Address mobile s rapid release cycles Test on emulators simulators and actual devices Test native hybrid and Web mobile apps Gain value from crowd and cloud testing and understand their limitations Test database access and local storage Drive value from testing throughout your app lifecycle Start testing wearables connected homes cars and Internet of Things devices

Unit Testing with iPhone Apps Dan Pilone,2010 Dan Pilone breaks down why unit testing is important but also how to add unit tests without falling asleep at the keyboard from boredom You ll also see how unit testing isn t just a bonus feature but actually improves the way you think about and program your iOS applications Resource description page

[A New Approach in GUI Testing](#) Tao Jiang,2002 *IOS Test-Driven Development (Second Edition)* Joshua Greene,raywenderlich Tutorial Team, Mike Katz,2022-01-18 Learn how to test iOS Applications iOS Test Driven Development introduces you to a broad range of concepts with regard to not only writing an application from scratch with testing in mind but also applying these concepts to already written applications which have little or no tests written for their functionality Who This Book Is For This book is for intermediate iOS developers who already know the basics of iOS and Swift development but want to learn how to write code which is both testable and maintainable Topics Covered in iOS Test Driven Development The TDD Cycle Learn the concepts of Test Driven Development and how to implement these concepts within an iOS application Test Expressions and Expectations Learn how to test both synchronous code using expressions and asynchronous code using expectations Test RESTful Networking Write tests to verify networking endpoints and the ability to mock the returned results Test Authentication Write tests which run against authenticated endpoints Legacy Problems Explore the problems legacy applications written without any unit tests or without thought of testing the code Breaking Dependencies into Modules Learn how to take dependencies within your code and compartmentalize these into their own modules with their own tests Refactoring Large Classes Learn how to refactor large unweilding classes into smaller more manageable and testable classes objects One thing you can count on after reading this book you ll be prepared to write testable applications which you can have confidence in making changes too with the knowledge your tests will catch breaking changes

IOS App Distribution & Best Practices (First Edition) Pietro Rea,raywenderlich Tutorial Team,Keegan

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