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Testing iOS Apps with HadoopUnit

Rapid Distributed GUI Testing

Scott Tilley
Krissada Dechokul

SYNTHESIS LECTURES ON SOFTWARE ENGINEERING

Testing Ios Apps With Hadoopunit Rapid Distributed Gui Testing Krissada Dechokul

Marco Brambilla,Jordi Cabot,Manuel Wimmer

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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

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

Java Software Development with Event B Néstor Cataño Collazos,2022-05-31 The cost of fixing software design flaws after the completion of a software product is so high that it is vital to come up with ways to detect software design flaws in the early stages of software development for instance during the software requirements the analysis activity or during

software design before coding starts It is not uncommon that software requirements are ambiguous or contradict each other Ambiguity is exacerbated by the fact that software requirements are typically written in a natural language which is not tied to any formal semantics A palliative to the ambiguity of software requirements is to restrict their syntax to boilerplates textual templates with placeholders However as informal requirements do not enjoy any particular semantics no essential properties about them or about the system they attempt to describe can be proven easily Formal methods are an alternative to address this problem They offer a range of mathematical techniques and mathematical tools to validate software requirements in the early stages of software development This book is a living proof of the use of formal methods to develop software The particular formalisms that we use are EVENT B and refinement calculus In short i software requirements as written as User Stories ii they are ported to formal specifications iii they are refined as desired iv they are implemented in the form of a prototype and finally v they are tested for inconsistencies If some unit test fails then informal as well as formal specifications of the software system are revisited and evolved This book presents a case study of software development of a chat system with EVENT B and a case study of formal proof of properties of a social network Model-Driven Software Engineering in Practice Marco Brambilla,Jordi Cabot,Manuel Wimmer,2017-03-30 This book discusses how model based approaches can improve the daily practice of software professionals This is known as Model Driven Software Engineering MDSE or simply Model Driven Engineering MDE MDSE practices have proved to increase efficiency and effectiveness in software development as demonstrated by various quantitative and qualitative studies MDSE adoption in the software industry is foreseen to grow exponentially in the near future e g due to the convergence of software development and business analysis The aim of this book is to provide you with an agile and flexible tool to introduce you to the MDSE world thus allowing you to quickly understand its basic principles and techniques and to choose the right set of MDSE instruments for your needs so that you can start to benefit from MDSE right away The book is organized into two main parts The first part discusses the foundations of MDSE in terms of basic concepts i e models and transformations driving principles application scenarios and current standards like the well known MDA initiative proposed by OMG Object Management Group as well as the practices on how to integrate MDSE in existing development processes The second part deals with the technical aspects of MDSE spanning from the basics on when and how to build a domain specific modeling language to the description of Model to Text and Model to Model transformations and the tools that support the management of MDSE projects The second edition of the book features a set of completely new topics including full example of the creation of a new modeling language IFML discussion of modeling issues and approaches in specific domains like business process modeling user interaction modeling and enterprise architecture complete revision of examples figures and text for improving readability understandability and coherence better formulation of definitions dependencies between concepts and ideas addition of a complete index of book content In addition to the contents of the book more resources are provided on the book s website

http www mdse book com including the examples presented in the book Model-Driven Software Engineering in Practice, Second Edition Marco Brambilla,Jordi Cabot,Manuel Wimmer,2022-05-31 This book discusses how model based approaches can improve the daily practice of software professionals This is known as Model Driven Software Engineering MDSE or simply Model Driven Engineering MDE MDSE practices have proved to increase efficiency and effectiveness in software development as demonstrated by various quantitative and qualitative studies MDSE adoption in the software industry is foreseen to grow exponentially in the near future e g due to the convergence of software development and business analysis The aim of this book is to provide you with an agile and flexible tool to introduce you to the MDSE world thus allowing you to quickly understand its basic principles and techniques and to choose the right set of MDSE instruments for your needs so that you can start to benefit from MDSE right away The book is organized into two main parts The first part discusses the foundations of MDSE in terms of basic concepts i e models and transformations driving principles application scenarios and current standards like the well known MDA initiative proposed by OMG Object Management Group as well as the practices on how to integrate MDSE in existing development processes The second part deals with the technical aspects of MDSE spanning from the basics on when and how to build a domain specific modeling language to the description of Model to Text and Model to Model transformations and the tools that support the management of MDSE projects The second edition of the book features a set of completely new topics including full example of the creation of a new modeling language IFML discussion of modeling issues and approaches in specific domains like business process modeling user interaction modeling and enterprise architecture complete revision of examples figures and text for improving readability understandability and coherence better formulation of definitions dependencies between concepts and ideas addition of a complete index of book content In addition to the contents of the book more resources are provided on the book s website http www mdse book com including the examples presented in the book **Symbolic Execution and Quantitative Reasoning** Corina S. Păsăreanu,2022-05-31 This book reviews recent advances in symbolic execution and its probabilistic variant and discusses how they can be used to ensure the safety and security of software systems Symbolic execution is a systematic program analysis technique which explores multiple program behaviors all at once by collecting and solving symbolic constraints collected from the branching conditions in the program The obtained solutions can be used as test inputs that execute feasible program paths Symbolic execution has found many applications in various domains such as security smartphone applications operating systems databases and more recently deep neural networks uncovering subtle errors and unknown vulnerabilities We review here the technique has also been extended to reason about algorithmic complexity and resource consumption Furthermore symbolic execution has been recently extended with probabilistic reasoning allowing one to reason about quantitative properties of software systems The approach computes the conditions to reach target program events of interest and uses model counting to quantify the fraction of the input domain satisfying these conditions thus computing the

probability of event occurrence This probabilistic information can be used for example to compute the reliability of an aircraft controller under different wind conditions modeled probabilistically or to quantify the leakage of sensitive data in a software system using information theory metrics such as Shannon entropy This book is intended for students and software engineers who are interested in advanced techniques for testing and verifying software systems **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 GUl 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 tum 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 OCUnit 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 OCUnit 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

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