

Effective GUI Test Automation: Developing an Automated GUI Testing Tool

Kanglin Li and Mengqi Wu



San Francisco • London

Effective Gui Test Automation Developing An Automated Gui Testing Tool

**Shampa Chakraverty, Anil Goel, Sanjay
Misra**



Effective Gui Test Automation Developing An Automated Gui Testing Tool:

Effective GUI Testing Automation Kanglin Li,Mengqi Wu,2006-07-14 Have you tried using an automated GUI testing tool only to find that you spent most of your time configuring adjusting and directing it This book presents a sensible and highly effective alternative it teaches you to build and use your own truly automated tool The procedure you ll learn is suitable for virtually any development environment and the tool allows you to store your test data and verification standard separately so you can build it once and use it for other GUIs Most if not all of your work can be done without test scripts because the tool itself can easily be made to conduct an automatic GUI survey collect test data and generate test cases You ll spend virtually none of your time playing with the tool or application under test Code intensive examples support all of the book s instruction which includes these key topics Building a C API text viewer Building a test monkey Developing an XML viewer using XPath and other XML related classes Building complex serializable classes for GUI test verification Automatically testing executable GUI applications and user defined GUI controls Testing managed NET and unmanaged GUI applications Automatically testing different GUI controls including Label TextBox Button CheckBox RadioButton Menu Verifying test results Effective GUI Test Automation is the perfect complement to Li and Wu s previous book Effective Software Test Automation Developing an Automated Software Testing Tool Together they provide programmers testers designers and managers with a complete and cohesive way to create a smoother swifter development process and as a result software that is as bug free as possible

Effective GUI Testing Automation Kanglin Li,Mengqi Wu,2004-11-26 Have you tried using an automated GUI testing tool only to find that you spent most of your time configuring adjusting and directing it This book presents a sensible and highly effective alternative it teaches you to build and use your own truly automated tool The procedure you ll learn is suitable for virtually any development environment and the tool allows you to store your test data and verification standard separately so you can build it once and use it for other GUIs Most if not all of your work can be done without test scripts because the tool itself can easily be made to conduct an automatic GUI survey collect test data and generate test cases You ll spend virtually none of your time playing with the tool or application under test Code intensive examples support all of the book s instruction which includes these key topics Building a C API text viewer Building a test monkey Developing an XML viewer using XPath and other XML related classes Building complex serializable classes for GUI test verification Automatically testing executable GUI applications and user defined GUI controls Testing managed NET and unmanaged GUI applications Automatically testing different GUI controls including Label TextBox Button CheckBox RadioButton Menu Verifying test results Effective GUI Test Automation is the perfect complement to Li and Wu s previous book Effective Software Test Automation Developing an Automated Software Testing Tool Together they provide programmers testers designers and managers with a complete and cohesive way to create a smoother swifter development process and as a result software that is as bug free as possible

Advances in Computers ,2014-08-27 Since its first volume in 1960 Advances in Computers has presented detailed

coverage of innovations in computer hardware software theory design and applications It has also provided contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles usually allow As a result many articles have become standard references that continue to be of significant lasting value in this rapidly expanding field In depth surveys and tutorials on new computer technology Well known authors and researchers in the field Extensive bibliographies with most chapters Many of the volumes are devoted to single themes or subfields of computer science

Novel Algorithms and Techniques in Telecommunications and Networking Tarek Sobh,Khaled Elleithy,Ausif Mahmood,2010-01-30 *Novel Algorithms and Techniques in Telecommunications and Networking* includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Industrial Electronics Technology and Automation Telecommunications and Networking *Novel Algorithms and Techniques in Telecommunications and Networking* includes selected papers form the conference proceedings of the International Conference on Telecommunications and Networking TeNe 08 which was part of the International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 2008 Effective Software Test Automation Kanglin Li,Mengqi Wu,2006-02-20 If you d like a glimpse at how the next generation is going to program this book is a good place to start Gregory V Wilson Dr Dobbs Journal October 2004 Build Your Own Automated Software Testing Tool Whatever its claims commercially available testing software is not automatic Configuring it to test your product is almost as time consuming and error prone as purely manual testing There is an alternative that makes both engineering and economic sense building your own truly automatic tool Inside you ll learn a repeatable step by step approach suitable for virtually any development environment Code intensive examples support the book s instruction which includes these key topics Conducting active software testing without capture replay Generating a script to test all members of one class without reverse engineering Using XML to store previously designed testing cases Automatically generating testing data Combining Reflection and CodeDom to write test scripts focused on high risk areas Generating test scripts from external data sources Using real and complete objects for integration testing Modifying your tool to test third party software components Testing your testing tool *Effective Software Test Automation* goes well beyond the building of your own testing tool it also provides expert guidance on deploying it in ways that let you reap the greatest benefits earlier detection of coding errors a smoother swifter development process and final software that is as bug free as possible Written for programmers testers designers and managers it will improve the way your team works and the quality of its products **Agile Development in the Real World** Alan Cline,2015-12-28 This book is a practical guide for new agile practitioners and contains everything a new project manager needs to know to get up to speed with agile practices quickly and sort out the hype and dogma of pseudo agile practices The author lays out the general guidelines for running an agile project with the assumption that the project team may be working in a traditional environment using the waterfall model or something similar *Agile Development in the Real World* conveys

valuable insights to multiple audiences For new to agile project managers this book provides a distinctive approach that Alan Cline has used with great success while showing the decision points and perspectives as the agile project moves forward from one step to the next This allows new agile project managers or agile coaches to choose between the benefits of agile and the benefits of other methods For the agile technical team member this book contains templates and sample project artifacts to assist in learning agile techniques and to be used as exemplars for the new practitioner s own project For the Project Management Office PMO the first three chapters focus on portfolio management They explain for the agilists benefit how projects are selected and approved and why projects have an inherent shelf life that results in hard deadlines that may seem arbitrary to traditional technical teams What You Will Learn How and why the evolution of project management from PM 1 prescriptive to PM 2 adaptive affects modern 21st century project management How sociology stakeholder management psychology team dynamics and anthropology organizational culture affect the way software is developed today and why it is far more effective A clear delineation of what must be accomplished by all the roles PM BA APM Developer and Tester why those roles are needed and what they must do Step by step guide for a successful project based on studies and the author s own experiences Specific techniques for each role on the development team both in the pre iteration and iteration cycles of product development The appendices contain templates that the team could use or modify to tailor their own agile processes specific to the team project and organization

Mining Google?Web Services John Mueller,2004 The only book on Google Web Services API Over 500 000 active Developers using Google Web Services Focused on development not the user features of Google Teaches practical real world application of Google Web Services using VBA Visual Studio PHP Java and Mobile Devices Topics include Discovering uses for Google Web Services Downloading and installing the kit Defining a search Working with web service data Writing Google Web Services programs Writing applications for mobile devices Crafting an application Using Google Web Services and Amazon Web Services together

Proceedings of the 17'th Annual Tcl/Tk Conference Tcl Association,2010-12-02

Setting Up LAMP Eric Rosebrock,Eric Filson,2004-09-03 Open source technologies have moved past the early adodpter stage to become practical solutions The LAMP technologies have risen to the top as mature tools for creating sophisticated Internet applications This book will help with the hard part setting up the components and getting them to work as a system

Just Enough Software Test Automation Daniel J. Mosley,Bruce A. Posey,2002 Offers advice on designing and implementing a software test automation infrastructure and identifies what current popular testing approaches can and cannot accomplish Rejecting the automation life cycle model the authors favor limited automation of unit integration and system testing They also present a control synchronized data driven framework to help jump start an automation project Examples are provided in the Rational suite test studio and source code is available at a supporting web site Annotation copyrighted by Book News Inc Portland OR

Enterprise System Architectures Mark Goodyear,2017-12-14 Experts from Andersen Consulting show you how to combine computing communications and

knowledge to deliver a uniquely new and entirely indispensable competitive advantage Lead Follow or get out of the way Your company's ability to sustain a competitive advantage is in jeopardy Your competitors can imitate and improve faster than ever You need to find ways to help your company discover and deliver an astounding solution control its costs and move on the next astounding solution Web based computing is the vital technology enabler for today's most important business opportunities like E Commerce It is also the flexible foundation for future solutions However because of the complexities and difficulties it represents it can be critical hurdle for IT shops and for an entire business Enterprise Systems Architecture Building Client Server and Web Based Systems is your guide through these complexities as you integrate your technology capabilities with your strategy people and processes to deliver astounding solutions It Introduces you to basic principles and concepts provides an overview of state of the art in client server and Web based computing models and develops a solid business case for implementation Acquaints you with various technologies involved and describes a comprehensive network computing architecture Details crucial analysis design and implementation issues including design specifics for architectures applications and network rollout strategies and ongoing management of distributed operations Explores emerging technologies and their likely impact on the future of netcentric computing Here you'll find detailed information on the architectures and frameworks for network based computing strategies for designing and implementing solutions strategies and methods for security It also provides a full framework for testing applications and in depth dis

NetCentric and Client/Server Computing Anderson Consulting, Craig Mindrum, 1998-12-18 From Federal Express's package tracking Website to Amazon.com netcentric computing has been evolving slowly but surely one solution at a time since the early 1990s Over the past year or so the trickle has grown into a torrent of netcentric innovations of wider and wider scope developed in companies around the globe Now a new enterprise computing paradigm has sprung into being Until now there has been no comprehensive netcentric model clearly defined netcentric system architecture or established set of guiding principles to help you gear up for this next stage in the evolution of enterprise computing written by the experts at Andersen Consulting Netcentric and Client Server Computing A Practical Guide offers you this and more Of course a book can never take the place of experts who wrote it but this revised updated and expanded edition of Andersen Consulting's noted guide is an important first step in acquiring the knowledge and skills you need to bring netcentric capabilities into your organization You'll learn from 13 acknowledged world experts what netcentric computing is how it works and how you can use it to provide your organization with an unstoppable competitive edge Based upon their experiences with mission critical netcentric implementations at 100 of the most successful business organizations on the planet these experts explain how netcentric computing can help you enable new business capabilities Using dozens of fascinating case examples they show you how to seamlessly integrate computing communications and knowledge resources in order to forge solid links among your company's employees units customers suppliers and partners regardless of time

location device or content And they provide priceless advice and guidance on how to exploit the endless array of possibilities provided by netcentric computing to develop exciting new customer services identify new markets cut costs engineer internal processes for improved business performance and more Netcentric and Client Server Computing is divided into four self contained sections for ease of reference Section I introduces you to basic netcentric principles and concepts provides an overview of state of the art in netcentric computing models and develops a solid business case for netcentric computing Section II acquaints you with the various technologies involved and describes a comprehensive netcentric architecture Section III is devoted to crucial analysis design and implementation issues including design specifics for architectures applications and networks rollout strategies and ongoing management of distributed operations Section IV explores emerging technologies and their likely impact on the future of netcentric computing

Towards Extensible and Adaptable Methods in Computing Shampa Chakraverty, Anil Goel, Sanjay Misra, 2018-11-04 This book addresses extensible and adaptable computing a broad range of methods and techniques used to systematically tackle the future growth of systems and respond proactively and seamlessly to change The book is divided into five main sections Agile Software Development Data Management Web Intelligence Machine Learning and Computing in Education These sub domains of computing work together in mutually complementary ways to build systems and applications that scale well and which can successfully meet the demands of changing times and contexts The topics under each track have been carefully selected to highlight certain qualitative aspects of applications and systems such as scalability flexibility integration efficiency and context awareness The first section Agile Software Development includes six contributions that address related issues including risk management test case prioritization and tools open source software reliability and predicting the change proneness of software The second section Data Management includes discussions on myriad issues such as extending database caches using solid state devices efficient data transmission healthcare applications and data security In turn the third section Machine Learning gathers papers that investigate ML algorithms and present their specific applications such as portfolio optimization disruption classification and outlier detection The fourth section Web Intelligence covers emerging applications such as metaphor detection language identification and sentiment analysis and brings to the fore web security issues such as fraud detection and trust reputation systems In closing the fifth section Computing in Education focuses on various aspects of computer aided pedagogical methods

Effective Software Testing Elfriede Dustin, 2002 With the advent of agile methodologies testing is becoming the responsibility of more and more team members In this new book noted testing expert Dustin imparts the best of her collected wisdom She presents 50 specific tips for a better testing program These 50 tips are divided into ten sections and presented so as to mirror the chronology of a software project

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

Agile Testing Lisa Crispin, Janet Gregory, 2009 Testing is a key component of agile development The widespread adoption of agile methods has brought the need for effective testing into the limelight and agile projects have transformed the role of testers Much of a tester's function however remains largely misunderstood What is the true role of a tester Do agile teams actually need members with QA backgrounds What does it really mean to be an agile tester Two of the industry's most experienced agile testing practitioners and consultants Lisa Crispin and Janet Gregory have teamed up to bring you the definitive answers to these questions and many others In Agile Testing Crispin and Gregory define agile testing and illustrate the tester's role with examples from real agile teams They teach you how to use the agile testing quadrants to identify what testing is needed who should do it and what tools might help The book chronicles an agile software development iteration from the viewpoint of a tester and explains the seven key success factors of agile testing Readers will come away from this book understanding How to get testers engaged in agile development Where testers and QA managers fit on an agile team What to look for when hiring an agile tester How to transition from a traditional cycle to agile development How to complete testing activities in short iterations How to use tests to successfully guide development How to overcome barriers to test automation This book is a must for agile testers agile teams their managers and their customers

InfoWorld, 1993-09-06 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects

Formal Approaches to Software Testing Wolfgang Grieskamp, Carsten Weise, 2006-05-30 This book constitutes the thoroughly refereed post proceedings of the 5th International Workshop on Formal Approaches to Software Testing FATES 2005 held in Edinburgh UK in July 2005 in conjunction with CAV 2005 The book presents 13 revised full papers together with 1 work in progress paper These address formal approaches to testing and use techniques from areas like theorem proving model checking constraint resolution program analysis abstract interpretation Markov chains and

various others Lessons Learned in Software Testing Cem Kaner,James Bach,Bret Pettichord,2011-08-02 Softwaretests stellen eine kritische Phase in der Softwareentwicklung dar Jetzt zeigt sich ob das Programm die entsprechenden Anforderungen erf llt und sich auch keine Programmierungsfehler eingeschlichen haben Doch wie bei allen Phasen im Software Entwicklungsprozess gibt es auch hier eine Reihe m glicher Fallstricke die die Entdeckung von Programmfehlern vereiteln k nnen Deshalb brauchen Softwaretester ein Handbuch das alle Tipps Tricks und die h ufigsten Fehlerquellen genau auflistet und erl utert damit m gliche Testfehler von vornherein vermieden werden k nnen Ein solches Handbuch ersetzt gut und gerne jahr zehnt elange Erfahrung und erspart dem Tester frustrierende und langwierige Trial und Error Prozeduren Cem Kaner und James Bach sind zwei der international f hrenden Experten auf dem Gebiet des Software Testing Sie sch pfen hier aus ihrer insgesamt 30 j hrigen Erfahrung Die einzelnen Lektionen sind nach Themenbereichen gegliedert wie z B Testdesign Test Management Teststrategien und Fehleranalyse Jede Lektion enth lt eine Behauptung und eine Erkl rung sowie ein Beispiel des entsprechenden Testproblems Lessons Learned in Software Testing ist ein unverzichtbarer Begleiter f r jeden Software Tester Quality of Information and Communications Technology José Maria Fernandes,Guilherme H. Travassos,Valentina Lenarduzzi,Xiaozhou Li,2023-09-12 This book constitutes the refereed proceedings of the 16th International Conference on Quality of Information and Communications Technology QUATIC 2023 held in Aveiro Portugal during September 11 13 2023 The 17 full papers and 4 short papers included in this book were carefully reviewed and selected from 37 submissions They were organized in topical sections as follows Disseminating Advanced Methods Techniques and Tools for Supporting Quality ICT Engineering and Management Approaches

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