A Quick Guide to Automated GUI Testing



Phillip A. Laplante

Effective GUI Testing Automation Kanglin Li, Menggi 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 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 Effective GUI Testing Automation Kanglin Li, Mengqi

Wu,2006-02-20 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 Software Quality Approaches: Testing, Verification, and Validation Michael Haug, Eric W. Olsen, Luisa Consolini, 2001-10-23 C Amting Directorate General Information Society European Commission Brussels th Under the 4 Framework of European Research the European Systems and Soft ware Initiative ESSI was part of the ESPRIT Programme This initiative funded more than 470 projects in the area ofsoftware and system process improvements The majority of these projects were process improvement experiments carrying out and taking up new development processes methods and technology within the software development process of a company In addition nodes centres of expertise European networks organisations managing local activities training and dissemination actions complemented the process improvement experiments ESSI aimed at improving the software development capabilities of European enterprises It focused on best practice and helped European companies to develop world class skills and associated technologies to build the increasingly complex and varied systems needed to compete in the marketplace The dissemination activities were designed to build a forum at European level to exchange information and knowledge gained within process improvement ex periments Their major objective was to spread the message and the results of experiments to awider audience through a variety of different channels The European Experience Exchange UR X project has been one of these dis semination activities within the European Systems and Software Initiative UR has collected the results of practitioner reports from numerous workshops in Europe and presents in this series of books the results of Best Practice achieve ments in European Companies over the last few years **Proceedings of the 17'th Annual Tcl/Tk Conference** Tcl Association, 2010-12-02 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 Agile Testing Lisa Crispin, Janet Gregory, 2009 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 Implementing Automated Software Testing Elfriede Dustin, Thom Garrett, Bernie Gauf, 2009-03-04 This book fills a huge gap in our knowledge of software testing It does an excellent job describing how test automation differs from other test activities and clearly lays out what kind of skills and knowledge are needed to automate tests The book is essential reading for students of testing and a bible for practitioners Jeff Offutt Professor of Software Engineering George Mason University This new book naturally expands upon its predecessor Automated Software Testing and is the perfect reference for software practitioners applying automated software testing to their development efforts Mandatory reading for software testing professionals Jeff Rashka PMP Coauthor of Automated Software Testing and Quality Web Systems Testing accounts for an increasingly large percentage of the time and cost of new software development Using automated software testing AST developers and software testers can optimize the software testing lifecycle and thus reduce cost As technologies and development grow increasingly complex AST becomes even more indispensable This book builds on some of the proven practices and the automated testing lifecycle methodology ATLM described in Automated Software Testing and provides a renewed practical start to finish guide to implementing AST successfully In Implementing Automated Software Testing three leading experts explain AST in detail systematically reviewing its components capabilities and limitations Drawing on their experience deploying AST in both defense and commercial industry they walk you through the entire implementation process identifying best practices crucial success factors and key pitfalls along with solutions for avoiding them You will learn how to Make a realistic business case for AST and use it to drive your initiative Clarify your testing requirements and develop an automation strategy that reflects them Build efficient test environments and choose the right automation tools and techniques for your environment Use proven metrics to continuously track your progress and adjust accordingly Whether you re a test professional QA specialist project manager or developer this book can help you bring unprecedented efficiency to testing and then use AST to improve your entire development lifecycle 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

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and identify and explain seven key success factors of agile testing The second title More Agile Testing Learning Journeys for the Whole Team addresses crucial emerging issues shares evolved practices and covers key issues that delivery teams want to learn more about It offers powerful new insights into continuous improvement scaling agile testing across teams and the enterprise overcoming pitfalls of automation testing in regulated environments integrating DevOps practices and testing mobile embedded and business intelligence systems The Agile Testing Collection will help you do all this and much more Customize agile testing processes to your needs and successfully transition to them Organize agile teams clarify roles hire new testers and quickly bring them up to speed Engage testers in agile development and help agile team members improve their testing skills Use tests and collaborate with business experts to plan features and guide development Design automated tests for superior reliability and easier maintenance Plan just enough balancing small increments with larger feature sets and the entire system Test to identify and mitigate risks and prevent future defects Perform exploratory testing using personas tours and test charters with session and thread based techniques Help testers developers and operations experts collaborate on shortening feedback cycles with continuous integration and delivery Both guides in this collection are thoroughly grounded in the authors extensive experience and supported by examples from actual projects Now with both books integrated into a single easily searchable and cross linked eBook you can learn from their experience even more easily

Visual Basic for Testers Joe Sweeney,2013-06-05 The goal of Visual Basic for Testers is to teach you how to use Visual Basic to increase your level of sophistication as a tester You ll learn how to use VB to write an automated testing project and what to look for in a well written VB program Author Mary Sweeney will help you gain the experience necessary both to use VB to support an automated text project and to text a commercial application written in VB Since testers often want to move to development tracks Sweeney also presents information on programming and the issues involved in maintenance and debugging Data Science and Security Samiksha Shukla, Hiroki Sayama, Kapil Tiwari, Joseph Varghese Kureethara, 2025-07-02 This book presents best selected papers presented at the International Conference on Data Science for Computational Security IDSCS 2024 hosted by Christ Deemed to be University India and technically sponsored by The Tejas Scientific Researcher Foundation India from 08 09 November 2024 The book targets the current research works in the areas of data science data security data analytics artificial intelligence machine learning computer vision algorithms design computer networking data mining big data text mining knowledge representation soft computing and cloud computing

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