



TEST AUTOMATION EFFORT ESTIMATION

Babu Narayanan



1. Candidates for test automation.

One of the classical mistakes of the test automation team is: **"NOT choosing right test cases for automation"**.

For any smart customer, the test automation scripts are only a support device to manual testing, NOT to bump off the latter. In that case, the customer will be more focused on the return on investment (ROI) for each of test automation script built (as the initial investment is high!). So choose the tangible test cases to automate against each phases of development (and demonstrate the same to the customer!).

How to find good test case candidates?

Sl. No.	Test Case Complexity	Number of actions	Number of verifications	Good candidates (= No. of executions)
1	Simple	< 5	< 5	> 15 executions
2	Medium	> 5 - < 15	> 5 - < 10	> 8 - 10 executions
3	Complex	> 15 - < 25	> 10 - < 15	> 5 - 8 executions

Please be aware that step comprises of actions and verification points (or expected results as some spell!). Mostly actions are direct method or function calls to test tool scripting language but the verification points are not of that kind.

Why do you need phase-wise test automation?

Most of the test automation projects fail which is mostly due to application rapid change, unsuitable test cases, shaky frameworks and/or scripting issues. Also it summarizes that test automation projects catch fewer defects than it is supposed to do.

** Mostly budget overrun than estimated.

The root causal analysis showed us the necessity of phase-wise test automation than one-go test automation. So advice that test automation needs to kick off with critical test cases that are of good candidate type and then slowly branching out to other mediums as required. This solution helps the customer by lesser maintenance costs and more business for you.

Also remember that framework needs constant updates along with script development process and thereby it becomes harder to maintain the framework in case if you have many scripts to develop in parallel.

What test type to be automated?

It is always good to script 'integration and/or system' functional test cases as they mostly bundle component level test cases within

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Patrick Vollmar



Test Automation Effort Estimation:

Test Automation Best Practices George Ukkuru,2015-12-26 In this brief well organized exposition George breaks down and simplifies the primary aspects of Test Automation He covers its cost effectiveness on software products how that is affected by the maintenance life of the product and how to prevent and protect features from breakage From Feasibility to Knowledge Transfer from test controls to test reporting functions we are carried step by step through the basics of Automation as well as through the simple process of providing an Automation Suite for a particular product or project Read on and find the answers to these questions Read on and determine whether or not Test Automation is for you The book won the best automation book of the year award by voting in 2014 in the TestKit event organized by Automation Testing Institute Till Date more than 250 copies have been sold via Amazon *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 **Mastering Mobile Test Automation** Feroz Pearl Louis,Gaurav Gupta,2015-05-11 If you want a complete understanding of mobile automation testing and its practical implementation then this book is for you Familiarity with the basics of VB Script and Java along with knowledge of basic testing concepts is essential Software Testing as a Service Ashfaq Ahmed,2009-09-14 In today s unforgiving business environment where customers demand zero defect software at lower costs it is testing that provides the opportunity for software companies to separate themselves from the competition Software Testing as a Service explains in simple language how to use software testing to improve productivity reduce time to market and reduce costly errors It explains how the normal functions of manufacturing can be applied to commoditize the software testing service to achieve consistent quality across all software projects This up to date reference reviews different software testing tools techniques and practices and provides succinct guidance on how to estimate costs allocate resources and make competitive bids Replete with examples and case histories this resource illustrates how proper planning can lead to the creation of software that s head and shoulders above the competition **Strategy, Planning and Organization of Test Processes** Frank Witte,2022-09-01 The book provides concrete tips for the successful organization of software tests Because Planning and conception in advance are essential for successful test projects Setting the right course prevents problems from the outset and highlights the need for action in software testing In addition to theoretical basics this work shows the implementation in practice and deals with typical problems Frank Witte explains the decisive aspects to be considered in the test concept in order to optimally support and accompany the test process This book is a translation of the original German 1st edition

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Proceedings of the International Congress on Information and Communication Technology Suresh Chandra Satapathy,Yogesh Chandra Bhatt,Amit Joshi,Durgesh Kumar Mishra,2016-06-08 This volume contains 69 papers presented at ICICT 2015 International Congress on Information and Communication Technology The conference was held during 9th and 10th October 2015 Udaipur India and organized by CSI Udaipur Chapter Division IV SIG WNS SIG e Agriculture in association with ACM Udaipur Professional Chapter The Institution of Engineers India Udaipur Local Centre and Mining Engineers Association of India Rajasthan Udaipur Chapter This volume contains papers mainly focused on ICT for Managerial Applications E governance IOT and e Mining

Software Testing and Continuous Quality Improvement William E. Lewis,Gunasekaran Veerapillai,2004-10-14 Software Testing and Continuous Quality Improvement Second Edition illustrates a quality framework for software testing in traditional structured and unstructured environments It explains how a continuous quality improvement approach promotes effective testing and it analyzes the various testing tools and techniques that you can choose

Software Requirements and Estimation Mr. Rohit Manglik,2024-07-25 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Software Testing and Quality Assurance Kshirasagar Naik,Priyadarshi Tripathy,2011-09-23 A superior primer on software testing and quality assurance from integration to execution and automation This important new work fills the pressing need for a user friendly text that aims to provide software engineers software quality professionals software developers and students with the fundamental developments in testing theory and common testing practices Software Testing and Quality Assurance Theory and Practice equips readers with a solid understanding of Practices that support the production of quality software Software testing techniques Life cycle models for requirements defects test cases and test results Process models for units integration system and acceptance testing How to build test teams including recruiting and retaining test engineers Quality Models Capability Maturity Model Testing Maturity Model and Test Process Improvement Model Expertly balancing theory with practice and complemented with an abundance of pedagogical tools including test questions examples teaching suggestions and chapter summaries this book is a valuable self contained tool for professionals and an ideal introductory text for courses in software testing quality assurance and software engineering

ICT Systems and Sustainability Milan Tuba,Shyam Akashe,Amit Joshi,2020-02-28

This book proposes new technologies and discusses future solutions for ICT design infrastructures as reflected in high quality papers presented at the 4th International Conference on ICT for Sustainable Development ICT4SD 2019 held in Goa India on 5 6 July 2019 The conference provided a valuable forum for cutting edge research discussions among pioneering researchers scientists industrial engineers and students from all around the world Bringing together experts from different countries the book explores a range of central issues from an international perspective

SOFTWARE QUALITY ASSURANCE, TESTING AND METRICS BASU, ANIRBAN, 2015-06-02 Intended for both undergraduate and postgraduate students of computer science and engineering information technology students of computer applications and working IT professionals this text describes the practices necessary for the development of quality software The contents of the book have been framed based on the syllabi prescribed by different Universities and also covers the topics required for working in the IT industry Based on the experience of the author in the industry academics consultancy and corporate trainings in India and abroad the book covers the methodologies techniques and underlying concepts used in Software Quality Assurance and Testing The treatment of the topics is crisp and accompanied with illustrative examples with minimum jargons Topics of relevance in the industry which a student must be familiar with before start of a career are covered in the book The book also discusses the concepts that a working IT professional should know The book provides an insight into the tools available for different types of testing Each chapter contains Quizzes Multiple Choice Questions and Review Questions which help the readers to qualify in the international certification examinations Key features Covers topics relevant to the industry Concepts discussed in an easy to understand way and illustrated with practical examples and figures wherever required Contains Objective Questions at the end of the book Includes topics prescribed in international certification exams in Software Quality and Testing

Information and Decision Sciences Suresh Chandra Satapathy, Joao Manuel R.S. Tavares, Vikrant Bhateja, J. R. Mohanty, 2018-04-13 This book presents the proceedings of the 6th International Conference on Frontiers of Intelligent Computing Theory and Applications FICTA 2017 held in Bhubaneswar Odisha The event brought together researchers scientists engineers and practitioners to exchange their new ideas and experiences in the domain of intelligent computing theories with prospective applications to various engineering disciplines The book is divided into two volumes Information and Decision Sciences and Intelligent Engineering Informatics This volume covers broad areas of Information and Decision Sciences with papers exploring both the theoretical and practical aspects of data intensive computing data mining evolutionary computation knowledge management networks sensor networks signal processing wireless networks protocols architectures etc The book also offers a valuable resource for students at the post graduate level in various engineering disciplines

Proceedings of First International Conference on Computational Electronics for Wireless Communications Sanyog Rawat, Arvind Kumar, Pramod Kumar, Jaume Anguera, 2022-01-03 This book includes high quality papers presented at Proceedings of First International Conference on Computational Electronics for Wireless Communications ICCWC 2021 held

at National Institute of Technology Kurukshetra Haryana India during June 11 12 2021 The book presents original research work of academics and industry professionals to exchange their knowledge of the state of the art research and development in computational electronics with an emphasis on wireless communications The topics covered in the book are radio frequency and microwave signal processing microelectronics and wireless networks

Model-Based Testing Essentials - Guide to the ISTQB Certified Model-Based Tester Anne Kramer, Bruno Legeard, 2016-03-29 Provides a practical and comprehensive introduction to the key aspects of model based testing as taught in the ISTQB Model Based Tester Foundation Level Certification Syllabus This book covers the essentials of Model Based Testing MBT needed to pass the ISTQB Foundation Level Model Based Tester Certification The text begins with an introduction to MBT covering both the benefits and the limitations of MBT The authors review the various approaches to model based testing explaining the fundamental processes in MBT the different modeling languages used common good modeling practices and the typical mistakes and pitfalls The book explains the specifics of MBT test implementation the dependencies on modeling and test generation activities and the steps required to automate the generated test cases The text discusses the introduction of MBT in a company presenting metrics to measure success and good practices to apply Provides case studies illustrating different approaches to Model Based Testing Includes in text exercises to encourage readers to practice modeling and test generation activities Contains appendices with solutions to the in text exercises a short quiz to test readers along with additional information Model Based Testing Essentials Guide to the ISTQB Certified Model Based Tester Foundation Level is written primarily for participants of the ISTQB Certification software engineers test engineers software developers and anybody else involved in software quality assurance This book can also be used for anyone who wants a deeper understanding of software testing and of the use of models for test generation

Software Testing , Advances in Computer Science and Ubiquitous Computing James J. Park, Doo-Soon Park, Young-Sik Jeong, Yi Pan, 2019-12-03 This book presents the combined proceedings of the 10th International Conference on Computer Science and its Applications CSA 2018 and the 13th KIPS International Conference on Ubiquitous Information Technologies and Applications CUTE 2018 both held in Kuala Lumpur Malaysia Dec 17 19 2018 The aim of these two meetings was to promote discussion and interaction among academics researchers and professionals in the field of ubiquitous computing technologies These proceedings reflect the state of the art in the development of computational methods involving theory algorithms numerical simulation error and uncertainty analysis and novel applications of new processing techniques in engineering science and other disciplines related to ubiquitous computing

Learn Software Testing in 24 Hours Alex Nordeen, 2020-10-31 Software testing is the verifying your software product against business requirements and the enduring the Application Under Test is defect free Contrary to popular belief testing is not an adhoc activity but is This book is designed for beginners with little or no prior Software Testing experience Here is what you will learn Table Of Content Section 1 Introduction 1 What is Software Testing Why is it Important 2 7 Software

Testing Principles 3 What is V Model 4 Software Testing Life Cycle STLC explained 5 Test Plan 6 What is Manual testing 7 What is Automation Testing Section 2 Creating Test 1 What is Test Scenario 2 How to Write Test Case 3 Software Testing Techniques 4 How to Create Requirements Traceability Matrix 5 Testing Review 6 Test Environment 7 Test Data 8 What is Defect 9 Defect Life Cycle Section 3 Testing Types 1 100 Types of Software Testing 2 White Box Testing 3 Black Box Testing 4 Unit Testing 5 INTEGRATION Testing 6 System Testing 7 Regression Testing 8 Sanity Testing Smoke Testing 9 Performance Testing 10 Load Testing 11 Accessibility Testing 12 STRESS Testing 13 User Acceptance Testing 14 Backend Testing 15 Protocol Testing 16 Web Service Testing 17 API Testing Section 4 Agile Testing 1 Agile Testing 2 Scrum Testing Beginners Section 5 Testing Different Domains 1 Banking Domain Application Testing 2 Ecommerce Applications 3 Insurance Application Testing 4 Payment Gateway Testing 5 Retail POS Testing 6 Telecom Domain Testing 7 Data Warehouse Testing 8 Database Testing

Metrics for Test Reporting Frank Witte, 2024-06-28 Part of any software development is to regularly inform management about the progress and any problems of the project This book presents various test parameters and metrics that can be used to vividly illustrate the progress of a software test and easily identify any need for action The key parameters and index values that are essential for successful reporting are explained in detail Starting with the historical development of test reporting the author explains the fundamental benefits of metrics and provides an overview of the different types of metrics and how they can be used effectively in software testing He shows how a particular metric can be individually adapted to the software to be tested starting with the test specification and test execution through to the development of test coverage and how this can lead to test automation He also presents the advantages and disadvantages of those test metrics that are based on defects i e that measure the number of defects the defect density and the development of defects over time With this detailed examination of test reporting the author provides an optimal basis for evaluation which not only allows the assessment of which test metric should be used for which purpose or which individual project situation but also what the particular problems of an individual metric for test reporting may be and how these problems can best be solved This practical guide is therefore primarily aimed at employees in IT projects such as project managers software testers and developers but business and technology consultants as well as lecturers at colleges and universities will also find an exciting insight into various software testing methods

Engineering in Dependability of Computer Systems and Networks Wojciech Zamojski, Jacek Mazurkiewicz, Jarosław Sugier, Tomasz Walkowiak, Janusz Kacprzyk, 2019-05-11 This book presents papers on various problems of dependability in computer systems and networks that were discussed at the 14th DepCoS RELCOMEX conference in Brun w Poland from 1st to 5th July 2019 Discussing new ideas research results and developments in the design implementation maintenance and analysis of complex computer systems it is of interest to researchers and practitioners who are dealing with dependability issues in such systems Dependability analysis came as a response to new challenges in the evaluation of contemporary complex systems which should be considered as systems of

people with their needs and behaviours interacting with technical communication channels such as mobile activities iCloud Internet of Everything and online applications often operating in hostile environments The diversity of topics covered illustrates the variety of methods used in this area often with the help of the latest results in artificial and computational intelligence

Recent Advances in Computing Sciences Sophiya Sheikh, Manmohan Sharma, Amar Singh, 2023-12-21 The 1st International Conference on Recent Advances in Computing Sciences RACS 2022 organized by the School of Computer Application Lovely Professional University Jalandhar Punjab from 4th to 5th November 2022 The conference focuses on discussing issues exchanging ideas and the most recent innovations towards the advancement of research in the field of Computing Sciences and Technology All technical sessions were predominantly related to Data Science Artificial Intelligence Remote Sensing Image Processing Computer Vision Data Forensics Cyber Security Computational Sciences Simulation Modelling Business Analytics and Machine Learning The main objective of this conference is to provide a common platform for academia and industry to discuss various technological challenges and share cognitive thoughts It provided a thought provoking platform to discuss and disseminate novel solutions for real world problems in a dynamic and changing technological environment The main success of RACS 2022 is to give an opportunity for the participants to enhance their knowledge of recent computing technologies

Test Automation Effort Estimation Book Review: Unveiling the Magic of Language

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