

Automated Data Warehouse Testing Beginners Step By Step

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Internet Marketing: Integrating Online and Offline Strategies - Mary Lou Roberts 2012-03-28

INTERNET MARKETING, 3RD EDITION provides comprehensive coverage of the rapidly changing field of Internet marketing that is timely and relevant. It relies on extant marketing theory where appropriate and introduces many conceptual frameworks to structure student understanding of Internet marketing issues. Above all, it works on the premise that the Internet--whether used as a medium of communication or as a channel of distribution--is only one component of the contemporary marketer's arsenal. The key issue facing marketers today is how to best integrate this powerful new component, continuing developments in Internet marketing into their strategies and media plans. That ongoing challenge represents the essential theme of this text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Just Enough Software Test Automation - Daniel J. Mosley 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.

The Data Warehouse ETL Toolkit - Ralph Kimball 2011-04-27

Cowritten by Ralph Kimball, the world's leading data warehousing authority, whose previous books have sold more than 150,000 copies Delivers real-world solutions for the most time- and labor-intensive portion of data warehousing--data staging, or the extract, transform, load (ETL) process Delineates best practices for extracting data from scattered sources, removing redundant and inaccurate data, transforming the remaining data into correctly formatted data structures, and then loading the end product into the data warehouse Offers proven time-saving ETL techniques, comprehensive guidance on building dimensional structures, and crucial advice on ensuring data quality

Data Mining with Neural Networks - Joseph P. Bigus 1996

readers will find concrete implementation strategies, reinforced with real-world business examples and a minimum of formulas, and case studies drawn from a broad range of industries. The book illustrates the popular data mining functions of classification, clustering, modeling, and time-series forecasting--through examples developed using the IBM Neural Network Utility.

Business Intelligence Demystified - Anoop Kumar V K 2021-09-25

Clear your doubts about Business Intelligence and start your new journey KEY FEATURES ● Includes successful methods and innovative ideas to achieve success with BI. ● Vendor-neutral, unbiased, and based on experience. ● Highlights practical challenges in BI journeys. ● Covers financial aspects along with technical aspects. ● Showcases multiple BI organization models and the structure of BI teams.

DESCRIPTION The book demystifies misconceptions and misinformation about BI. It provides clarity to almost everything related to BI in a simplified and unbiased way. It covers topics right from the definition of BI, terms used in the BI definition, coinage of BI, details of the different main uses of BI, processes that support the main uses, side benefits, and the level of importance of BI, various types of BI based on various parameters, main phases in the BI journey and the challenges faced in each of the phases in the BI journey. It clarifies myths about self-service BI and real-time BI. The book covers the structure of a typical internal BI team, BI organizational models, and the main roles in BI. It also clarifies the doubts around roles in BI. It explores the different components that add to the cost of BI and explains how to calculate the total cost of the

ownership of BI and ROI for BI. It covers several ideas, including unconventional ideas to achieve BI success and also learn about IBI. It explains the different types of BI architectures, commonly used technologies, tools, and concepts in BI and provides clarity about the boundary of BI w.r.t technologies, tools, and concepts. The book helps you lay a very strong foundation and provides the right perspective about BI. It enables you to start or restart your journey with BI. WHAT YOU WILL LEARN ● Builds a strong conceptual foundation in BI. ● Gives the right perspective and clarity on BI uses, challenges, and architectures. ● Enables you to make the right decisions on the BI structure, organization model, and budget. ● Explains which type of BI solution is required for your business. ● Applies successful BI ideas. WHO THIS BOOK IS FOR This book is a must-read for business managers, BI aspirants, CxOs, and all those who want to drive the business value with data-driven insights. TABLE OF CONTENTS 1. What is Business Intelligence? 2. Why do Businesses need BI? 3. Types of Business Intelligence 4. Challenges in Business Intelligence 5. Roles in Business Intelligence 6. Financials of Business Intelligence 7. Ideas for Success with BI 8. Introduction to IBI 9. BI Architectures 10. Demystify Tech, Tools, and Concepts in BI **Testing Bi and Etl Applications With Manual and Automation Approach** - Shanthi Kumar Vemulapalli 2015-07-24

The BI Projects are heart of the any business organization. The IT departments need to struggle a lot to bring them into a good shape by spending thousands of man days efforts towards data validation, cleansing, transforming, consolidating and presenting to the users. At the same time the BI Project evaluation for its implementation is a challenge to any IT organization. The resources should be well understood on its activities by collecting latest information. They also need to work in collaboration with the technical teams by understanding the latest design and development requirements. At the same time they need to confirm with the users on their understanding of the latest requirements before stepping into the evaluation process. This activity denotes lot of resource educations is required for BI Projects evaluation. One might get the following questions also into their mind: What kind of techniques can be used for data transformation? Why do you need to evaluate thoroughly the BI applications? Why do you need a Big Bang kind of test coverage for BI Projects? Why do you need different environments for BI Projects? What kind of testing is involved? Is there any test automation process involved for BI projects? If you are nominated as a business representative to certify the ETL/BI Application; you might ask some of the following questions. i) Is the appropriate data being extracted? ii) If the source data element is split into multiple columns, is it done correctly during the transformation process? iii) If some data elements are merged together did any integrity problems result from this transformation process? iv) Is the data loaded correctly into the appropriate BI target databases and the appropriate BI tables? v) Can the data in the BI target databases be reconciled with the source files and source databases? Where are the reconciliation totals stored? vi) Are data values correctly transformed and cleansed? Is bad data slipping through without notice? vii) Is the load performance adequate? And is the BI data available to the business people when they expect it? For all the above test scenarios; this Book can denote the solutions to follow. By considering the above clarifications or questions; with my past 10 plus years of work experiences on these kind of projects, I have made this detailed E-Book to understand the Data warehouse concepts in depth, the development activities and the feasible testing methodology need to be used for applying the evaluation procedure. After going through this E-Book with clear understanding on it, any BI professional can be ready to step into the BI project evaluation confidently with self motivation.

Advanced Selenium Web Accessibility Testing - Narayanan Palani 2019-03-27

This book explains the steps necessary to write manual accessibility tests and convert them into automated selenium-based accessibility tests to run part of regression test packs. If you are searching a topic on Google or buying a product online, web accessibility is a basic need. If a web page is easier to access when using a mouse and complex to navigate with keyboard, this is extremely difficult for users with disabilities. Web Accessibility Testing is a most important testing practice for customers facing web applications. This book explains the steps necessary to write manual accessibility tests and convert them into automated selenium-based accessibility tests to run part of regression test packs. WCAG and Section 508 guidelines are considered across the book while explaining the test design steps. Software testers with accessibility testing knowledge are in high demand at large organizations since the need to do manual and automated accessibility testing is growing rapidly. This book illustrates the types of accessibility testing with test cases and code examples.

Agile Data Warehousing for the Enterprise - Ralph Hughes 2015-09-19 Building upon his earlier book that detailed agile data warehousing programming techniques for the Scrum master, Ralph's latest work illustrates the agile interpretations of the remaining software engineering disciplines: Requirements management benefits from streamlined templates that not only define projects quickly, but ensure nothing essential is overlooked. Data engineering receives two new "hyper modeling" techniques, yielding data warehouses that can be easily adapted when requirements change without having to invest in ruinously expensive data-conversion programs. Quality assurance advances with not only a stereoscopic top-down and bottom-up planning method, but also the incorporation of the latest in automated test engines. Use this step-by-step guide to deepen your own application development skills through self-study, show your teammates the world's fastest and most reliable techniques for creating business intelligence systems, or ensure that the IT department working for you is building your next decision support system the right way. Learn how to quickly define scope and architecture before programming starts Includes techniques of process and data engineering that enable iterative and incremental delivery Demonstrates how to plan and execute quality assurance plans and includes a guide to continuous integration and automated regression testing Presents program management strategies for coordinating multiple agile data mart projects so that over time an enterprise data warehouse emerges Use the provided 120-day road map to establish a robust, agile data warehousing program

The Data Warehouse Toolkit - Ralph Kimball 2011-08-08 This old edition was published in 2002. The current and final edition of this book is *The Data Warehouse Toolkit: The Definitive Guide to Dimensional Modeling*, 3rd Edition which was published in 2013 under ISBN: 9781118530801. The authors begin with fundamental design recommendations and gradually progress step-by-step through increasingly complex scenarios. Clear-cut guidelines for designing dimensional models are illustrated using real-world data warehouse case studies drawn from a variety of business application areas and industries, including: Retail sales and e-commerce Inventory management Procurement Order management Customer relationship management (CRM) Human resources management Accounting Financial services Telecommunications and utilities Education Transportation Health care and insurance By the end of the book, you will have mastered the full range of powerful techniques for designing dimensional databases that are easy to understand and provide fast query response. You will also learn how to create an architected framework that integrates the distributed data warehouse using standardized dimensions and facts.

Effective Methods for Software Testing, CafeScribe - William E. Perry 2007-03-31

Written by the founder and executive director of the Quality Assurance Institute, which sponsors the most widely accepted certification program for software testing Software testing is a weak spot for most developers, and many have no system in place to find and correct defects quickly and efficiently This comprehensive resource provides step-by-step guidelines, checklists, and templates for each testing activity, as well as a self-assessment that helps readers identify the sections of the book that respond to their individual needs Covers the latest regulatory developments affecting software testing, including Sarbanes-Oxley Section 404, and provides guidelines for agile testing and testing for security, internal controls, and data warehouses CD-ROM with all checklists and templates saves testers countless hours of developing their own test documentation Note: CD-ROM/DVD and other

supplementary materials are not included as part of eBook file.

Automated Software Engineering: A Deep Learning-Based Approach Suresh Chandra Satapathy 2020-01-07

This book discusses various open issues in software engineering, such as the efficiency of automated testing techniques, predictions for cost estimation, data processing, and automatic code generation. Many traditional techniques are available for addressing these problems. But, with the rapid changes in software development, they often prove to be outdated or incapable of handling the software's complexity. Hence, many previously used methods are proving insufficient to solve the problems now arising in software development. The book highlights a number of unique problems and effective solutions that reflect the state-of-the-art in software engineering. Deep learning is the latest computing technique, and is now gaining popularity in various fields of software engineering. This book explores new trends and experiments that have yielded promising solutions to current challenges in software engineering. As such, it offers a valuable reference guide for a broad audience including systems analysts, software engineers, researchers, graduate students and professors engaged in teaching software engineering.

Mastering Databricks Lakehouse Platform - Sagar Lad 2022-07-11 Enable data and AI workloads with absolute security and scalability KEY FEATURES ● Detailed, step-by-step instructions for every data professional starting a career with data engineering. ● Access to DevOps, Machine Learning, and Analytics within a single unified platform. ● Includes design considerations and security best practices for efficient utilization of Databricks platform. DESCRIPTION Starting with the fundamentals of the databricks lakehouse platform, the book teaches readers on administering various data operations, including Machine Learning, DevOps, Data Warehousing, and BI on the single platform. The subsequent chapters discuss working around data pipelines utilizing the databricks lakehouse platform with data processing and audit quality framework. The book teaches to leverage the Databricks Lakehouse platform to develop delta live tables, streamline ETL/ELT operations, and administer data sharing and orchestration. The book explores how to schedule and manage jobs through the Databricks notebook UI and the Jobs API. The book discusses how to implement DevOps methods on the Databricks Lakehouse platform for data and AI workloads. The book helps readers prepare and process data and standardizes the entire ML lifecycle, right from experimentation to production. The book doesn't just stop here; instead, it teaches how to directly query data lake with your favourite BI tools like Power BI, Tableau, or Qlik. Some of the best industry practices on building data engineering solutions are also demonstrated towards the end of the book. WHAT YOU WILL LEARN ● Acquire capabilities to administer end-to-end Databricks Lakehouse Platform. ● Utilize Flow to deploy and monitor machine learning solutions. ● Gain practical experience with SQL Analytics and connect Tableau, Power BI, and Qlik. ● Configure clusters and automate CI/CD deployment. ● Learn how to use Airflow, Data Factory, Delta Live Tables, Databricks notebook UI, and the Jobs API. WHO THIS BOOK IS FOR This book is for every data professional, including data engineers, ETL developers, DB administrators, Data Scientists, SQL Developers, and BI specialists. You don't need any prior expertise with this platform because the book covers all the basics. TABLE OF CONTENTS 1. Getting started with Databricks Platform 2. Management of Databricks Platform 3. Spark, Databricks, and Building a Data Quality Framework 4. Data Sharing and Orchestration with Databricks 5. Simplified ETL with Delta Live Tables 6. SCD Type 2 Implementation with Delta Lake 7. Machine Learning Model Management with Databricks 8. Continuous Integration and Delivery with Databricks 9. Visualization with Databricks 10. Best Security and Compliance Practices of Databricks

Site Reliability Engineering - Niall Richard Murphy 2016-03-23 The overwhelming majority of a software system's lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections: Introduction—Learn what site reliability engineering is and why it differs from conventional

IT industry practices Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE) Practices—Understand the theory and practice of an SRE’s day-to-day work: building and operating large distributed computing systems Management—Explore Google’s best practices for training, communication, and meetings that your organization can use [Automated Web Testing Toolkit](#) - Diane Stottlemeyer 2001-07-13 CD-ROM contains: Customizable templates, test plans, cases, scripts, and scenarios -- Links to resources and access to sample tools

Testing JavaScript Applications - Lucas Fernandes da Costa 2021-03-16

Testing JavaScript Applications teaches you how to implement an automated testing plan for JavaScript-based web applications. Summary Automated testing will help you write high-quality software in less time, with more confidence, fewer bugs, and without constant manual oversight. Testing JavaScript Applications is a guide to building a comprehensive and reliable JS application testing suite, covering both how to write tests and how JS testing tools work under the hood. You’ll learn from Lucas de Costa, a core contributor to popular JS testing libraries, as he shares a quality mindset for making testing decisions that deliver a real contribution to your business. You’ll benefit from informative explanations and diagrams, easily-transferable code samples, and useful tips on using the latest and most consolidated libraries and frameworks of the JavaScript ecosystem. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Automated testing is essential to delivering good JavaScript applications every time. A complete testing strategy needs to cover functions in isolation, integration between different parts of your code, and correctness from the end user’s perspective. This book will teach you how to deliver reliable software quickly and confidently. About the book Testing JavaScript Applications teaches you how to implement an automated testing plan for JavaScript-based web applications. It describes practical testing strategies, covers useful tools and libraries, and explains how to foster a culture of quality. In this clearly-written, example-rich book, you’ll explore approaches for both backend and frontend applications and learn how to validate your software much more quickly and reliably. What’s inside Unit, end-to-end, and integration testing Managing test cost and complexity Practicing test-driven development Dealing with external dependencies Tools like Jest and Cypress About the reader For junior JavaScript developers. About the author Lucas da Costa is a core maintainer of Chai and Sinon.JS, two of the most popular testing tools in the JavaScript ecosystem, and contributed to numerous other open-source projects, including Jest. Table of Contents PART 1 - TESTING JAVASCRIPT APPLICATIONS 1 An introduction to automated testing 2 What to test and when? Part 2 - WRITING TESTS 3 Testing techniques 4 Testing backend applications 5 Advanced backend testing techniques 6 Testing frontend applications 7 The React testing ecosystem 8 Testing React applications 9 Test-driven development 10 UI-based end-to-end testing 11 Writing UI-based end-to-end tests PART 3 - BUSINESS IMPACT 12 Continuous integration and continuous delivery 13 A culture of quality [Data Mining: Concepts and Techniques](#) - Jiawei Han 2011-06-09 Data Mining: Concepts and Techniques provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data mining, this edition explains the methods of knowing, preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who seek information on data mining. Presents dozens of algorithms and implementation examples, all in pseudo-code and suitable for use in real-world, large-scale data mining projects Addresses advanced topics such as mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields Provides a comprehensive, practical look at the concepts

and techniques you need to get the most out of your data

Reinforcement and Systemic Machine Learning for Decision Making - Parag Kulkarni 2012-08-14

Reinforcement and Systemic Machine Learning for Decision Making There are always difficulties in making machines that learn from experience. Complete information is not always available—or it becomes available in bits and pieces over a period of time. With respect to systemic learning, there is a need to understand the impact of decisions and actions on a system over that period of time. This book takes a holistic approach to addressing that need and presents a new paradigm—creating new learning applications and, ultimately, more intelligent machines. The first book of its kind in this new and growing field, Reinforcement and Systemic Machine Learning for Decision Making focuses on the specialized research area of machine learning and systemic machine learning. It addresses reinforcement learning and its applications, incremental machine learning, repetitive failure-correction mechanisms, and multiperspective decision making. Chapters include: Introduction to Reinforcement and Systemic Machine Learning Fundamentals of Whole-System, Systemic, and Multiperspective Machine Learning Systemic Machine Learning and Model Inference and Information Integration Adaptive Learning Incremental Learning and Knowledge Representation Knowledge Augmentation: A Machine Learning Perspective Building a Learning System With the potential of this paradigm to become one of the more utilized in its field, professionals in the area of machine and systemic learning will find this book to be a valuable resource.

Automation in Warehouse Development - Roelof Hamberg 2011-10-29

The warehouses of the future will come in a variety of forms, but with a few common ingredients. Firstly, human operational handling of items in warehouses is increasingly being replaced by automated item handling. Extended warehouse automation counteracts the scarcity of human operators and supports the quality of picking processes. Secondly, the development of models to simulate and analyse warehouse designs and their components facilitates the challenging task of developing warehouses that take into account each customer’s individual requirements and logistic processes. Automation in Warehouse Development addresses both types of automation from the innovative perspective of applied science. In particular, it describes the outcomes of the Falcon project, a joint endeavour by a consortium of industrial and academic partners. The results include a model-based approach to automate warehouse control design, analysis models for warehouse design, concepts for robotic item handling and computer vision, and autonomous transport in warehouses. Automation in Warehouse Development is targeted at both academic researchers and industrial practitioners. It provides state-of-the art research on warehouse automation and model-based warehouse design. These topics have been addressed from a systems engineering perspective by researchers from different disciplines including software, control, and mechanical engineering, with a clear focus on the industrial applications of their research.

Building a Scalable Data Warehouse with Data Vault 2.0 - Dan Linstedt 2015-09-15

The Data Vault was invented by Dan Linstedt at the U.S. Department of Defense, and the standard has been successfully applied to data warehousing projects at organizations of different sizes, from small to large-size corporations. Due to its simplified design, which is adapted from nature, the Data Vault 2.0 standard helps prevent typical data warehousing failures. "Building a Scalable Data Warehouse" covers everything one needs to know to create a scalable data warehouse end to end, including a presentation of the Data Vault modeling technique, which provides the foundations to create a technical data warehouse layer. The book discusses how to build the data warehouse incrementally using the agile Data Vault 2.0 methodology. In addition, readers will learn how to create the input layer (the stage layer) and the presentation layer (data mart) of the Data Vault 2.0 architecture including implementation best practices. Drawing upon years of practical experience and using numerous examples and an easy to understand framework, Dan Linstedt and Michael Olschimke discuss: How to load each layer using SQL Server Integration Services (SSIS), including automation of the Data Vault loading processes. Important data warehouse technologies and practices. Data Quality Services (DQS) and Master Data Services (MDS) in the context of the Data Vault architecture. Provides a complete introduction to data warehousing, applications, and the business context so readers can get-up and running

fast Explains theoretical concepts and provides hands-on instruction on how to build and implement a data warehouse Demystifies data vault modeling with beginning, intermediate, and advanced techniques Discusses the advantages of the data vault approach over other techniques, also including the latest updates to Data Vault 2.0 and multiple improvements to Data Vault 1.0

Data Warehousing Fundamentals - Paulraj Ponniah 2004-04-07

Geared to IT professionals eager to get into the all-important field of data warehousing, this book explores all topics needed by those who design and implement data warehouses. Readers will learn about planning requirements, architecture, infrastructure, data preparation, information delivery, implementation, and maintenance. They'll also find a wealth of industry examples garnered from the author's 25 years of experience in designing and implementing databases and data warehouse applications for major corporations. Market: IT Professionals, Consultants.

More Agile Testing - Janet Gregory 2014-10-06

Janet Gregory and Lisa Crispin pioneered the agile testing discipline with their previous work, *Agile Testing*. Now, in *More Agile Testing*, they reflect on all they've learned since. They address crucial emerging issues, share evolved agile practices, and cover key issues agile testers have asked to learn more about. Packed with new examples from real teams, this insightful guide offers detailed information about adapting agile testing for your environment; learning from experience and continually improving your test processes; scaling agile testing across teams; and overcoming the pitfalls of automated testing. You'll find brand-new coverage of agile testing for the enterprise, distributed teams, mobile/embedded systems, regulated environments, data warehouse/BI systems, and DevOps practices. You'll come away understanding

- How to clarify testing activities within the team
- Ways to collaborate with business experts to identify valuable features and deliver the right capabilities
- How to design automated tests for superior reliability and easier maintenance
- How agile team members can improve and expand their testing skills
- How to plan "just enough," balancing small increments with larger feature sets and the entire system
- How to use testing to identify and mitigate risks associated with your current agile processes and to prevent defects
- How to address challenges within your product or organizational context
- How to perform exploratory testing using "personas" and "tours"
- Exploratory testing approaches that engage the whole team, using test charters with session- and thread-based techniques
- How to bring new agile testers up to speed quickly—without overwhelming them

Janet Gregory is founder of DragonFire Inc., an agile quality process consultancy and training firm. Her passion is helping teams build quality systems. For almost fifteen years, she has worked as a coach and tester, introducing agile practices into companies of all sizes and helping users and testers understand their agile roles. She is a frequent speaker at agile and testing software conferences, and is a major contributor to the agile testing community. Lisa Crispin, an experienced agile testing practitioner and coach, regularly leads conference workshops on agile testing and contributes frequently to agile software publications. She enjoys collaborating as part of an awesome agile team to produce quality software. Since 1982, she has worked in a variety of roles on software teams, in a wide range of industries. She joined her first agile team in 2000 and continually learns from other teams and practitioners.

Database Reliability Engineering - Laine Campbell 2017-10-26

The infrastructure-as-code revolution in IT is also affecting database administration. With this practical book, developers, system administrators, and junior to mid-level DBAs will learn how the modern practice of site reliability engineering applies to the craft of database architecture and operations. Authors Laine Campbell and Charity Majors provide a framework for professionals looking to join the ranks of today's database reliability engineers (DBRE). You'll begin by exploring core operational concepts that DBREs need to master. Then you'll examine a wide range of database persistence options, including how to implement key technologies to provide resilient, scalable, and performant data storage and retrieval. With a firm foundation in database reliability engineering, you'll be ready to dive into the architecture and operations of any modern database. This book covers: Service-level requirements and risk management Building and evolving an architecture for operational visibility Infrastructure engineering and infrastructure management How to facilitate the release management process Data storage, indexing, and replication Identifying data store characteristics and best use cases Datastore architectural components and data-driven architectures

Automated Web Testing - G. Suden 2016-07-18

Automated Web Testing is a step by step guide for the web application testers who want to try their hands at automated testing. It provides step by step instructions for setting up the Automation Framework from scratch. The framework is quite generic and as such can be applied to most website projects. This book concentrates on the 'practical side' of automated testing rather than the 'theoretical side'. It includes the complete listings of the automation code for the demo website that has been set up for you to test against. The code listings explain the logic of individual tests and generic functions. The book covers: Start with an overview of a typical web application architecture. Set up the environment for automation. The software we will use is open source and freeware! Learn techniques to identify elements on web pages. Set up the Automation Framework and Object Repository from scratch. Add important features to the Automation Framework such as reporting result comparisons, saving screenshots, logging information to a Console and CSV files etc. Automate data entry, verification and negative tests using the demo website. Automate tabular and summary reports. Automate Data Driven Testing using Microsoft Excel data sources followed by adding more useful features to the Automation Framework. Cross Browser Testing using Firefox, Chrome, Internet Explorer, Edge, Safari and Opera web browsers. Automate Web Services Testing using a demo web service. Perform advanced user interactions like Drag-and-Drop, Context Click, executing JavaScripts etc. in web pages.

Automated Testing in Microsoft Dynamics 365 Business Central - Luc van Vugt 2019-04-30

Learn how to write automated tests for Dynamics 365 Business Central and see how to implement it in your daily work Key Features Leverage automated testing to advance over traditional manual testing methods Write, design, and implement automated tests Explore various testing frameworks and tools compatible with Microsoft Dynamics 365 Business Central Book Description Dynamics 365 Business Central is the new cloud-based SaaS ERP proposition from Microsoft. It's not as simple as it used to be way back when it was called Navigator, Navision Financials, or Microsoft Business Solutions-Navision. Our development practices are becoming more formal, and with this, the call for test automation is pressing on us. This book will teach you to leverage testing tools available with Dynamics 365 Business Central to perform automated testing. We'll begin with a quick introduction to automated testing, followed by an overview of test automation in Dynamics 365 Business Central. Then you'll learn to design and build automated tests and we'll go through some efficient methods to get from requirements to application and testing code. Lastly, you'll learn to incorporate your own and Microsoft tests into your daily development practice. By the end of the book, you'll be able to write your own automated tests for Dynamics 365 Business Central. What you will learn Understand what automated tests are, and when and why to use them Explore the five pillars of the Testability Framework of Business Central Design and write automated tests for Business Central Make use of standard automated tests and their helper libraries Integrate automated tests into your development practice Who this book is for This book is for consultants, testers, developers, and development managers working with Microsoft Dynamics NAV and Business Central. Being a book on automated testing techniques, it also caters to both functional and technical development teams.

Toad for Oracle Unleashed - Bert Scalzo 2015-06-29

Bert Scalzo and Dan Hotka have written the definitive, up-to-date guide to Version 12.x, Dell's powerful new release of Toad for Oracle. Packed with step-by-step recipes, detailed screen shots, and hands-on exercises, Toad for Oracle Unleashed shows both developers and DBAs how to maximize their productivity. Drawing on their unsurpassed experience running Toad in production Oracle environments, Scalzo and Hotka thoroughly cover every area of Toad's functionality. You'll find practical insights into each of Toad's most useful tools, from App Designer to Doc Generator, ER Diagrammer to Code Road Map. The authors offer proven solutions you can apply immediately to solve a wide variety of problems, from maintaining code integrity to automating performance and scalability testing. Learn how to... Install and launch Toad, connect to a database, and explore Toad's new features Customize Toad to optimize productivity in your environment Use the Editor Window to execute SQL and PL/SQL, and view, save, or convert data Browse your schema, and create and edit objects Quickly generate useful reports with FastReport and Report Manager Clarify your database's tables and data with the powerful Entity Relationship Diagrammer (ERD) and HTML documentation generator Work more efficiently with PL/SQL using code templates, snippets, and shortcuts Automate actions and applications

with Automation Designer Perform key DBA tasks including database health checks, tablespace management, database and schema comparisons, and object rebuilding Identify and optimize poorly performing SQL and applications ON THE WEB: Download all examples and source code presented in this book from informit.com/title/9780134131856 as it becomes available.

Computerworld - 1993-10-11

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide.

Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Lessons Learned in Software Testing - Cem Kaner 2011-08-02

Decades of software testing experience condensed into the most important lessons learned. The world's leading software testing experts lend you their wisdom and years of experience to help you avoid the most common mistakes in testing software. Each lesson is an assertion related to software testing, followed by an explanation or example that shows you the how, when, and why of the testing lesson. More than just tips, tricks, and pitfalls to avoid, Lessons Learned in Software Testing speeds you through the critical testing phase of the software development project without the extensive trial and error it normally takes to do so. The ultimate resource for software testers and developers at every level of expertise, this guidebook features: * Over 200 lessons gleaned from over 30 years of combined testing experience * Tips, tricks, and common pitfalls to avoid by simply reading the book rather than finding out the hard way * Lessons for all key topic areas, including test design, test management, testing strategies, and bug reporting * Explanations and examples of each testing trouble spot help illustrate each lesson's assertion

Transactions on Large-Scale Data- and Knowledge-Centered Systems XLVIII - Abdelkader Hameurlain 2021-05-17

The LNCS journal Transactions on Large-Scale Data- and Knowledge-Centered Systems focuses on data management, knowledge discovery, and knowledge processing, which are core and hot topics in computer science. Since the 1990s, the Internet has become the main driving force behind application development in all domains. An increase in the demand for resource sharing (e.g., computing resources, services, metadata, data sources) across different sites connected through networks has led to an evolution of data- and knowledge management systems from centralized systems to decentralized systems enabling large-scale distributed applications providing high scalability. This, the 48th issue of Transactions on Large-Scale Data- and Knowledge-Centered Systems, contains 8 invited papers dedicated to the memory of Prof. Dr. Roland Wagner. The topics covered include distributed database systems, NewSQL, scalable transaction management, strong consistency, caches, data warehouse, ETL, reinforcement learning, stochastic approximation, multi-agent systems, ontology, model-driven development, organisational modelling, digital government, new institutional economics and data governance.

Software Testing Srinivasan Desikan 2006

"Software Testing: Principles and Practices is a comprehensive treatise on software testing. It provides a pragmatic view of testing, addressing emerging areas like extreme testing and ad hoc testing"--Resource description page.

Complete Guide to Test Automation - Arnon Axelrod 2018-09-22

Rely on this robust and thorough guide to build and maintain successful test automation. As the software industry shifts from traditional waterfall paradigms into more agile ones, test automation becomes a highly important tool that allows your development teams to deliver software at an ever-increasing pace without compromising quality. Even though it may seem trivial to automate the repetitive tester's work, using test automation efficiently and properly is not trivial. Many test automation endeavors end up in the "graveyard" of software projects. There are many things that affect the value of test automation, and also its costs. This book aims to cover all of these aspects in great detail so you can make decisions to create the best test automation solution that will not only help your test automation project to succeed, but also allow the entire software project to thrive. One of the most important details that affects the success of the test automation is how easy it is to maintain the automated tests. Complete Guide to Test Automation provides a detailed hands-on guide for writing highly maintainable test code. What You'll Learn Know the real value to be expected from test automation Discover the key traits that will make your test automation project succeed Be aware of the different considerations to take into account when planning

automated tests vs. manual tests Determine who should implement the tests and the implications of this decision Architect the test project and fit it to the architecture of the tested application Design and implement highly reliable automated tests Begin gaining value from test automation earlier Integrate test automation into the business processes of the development team Leverage test automation to improve your organization's performance and quality, even without formal authority Understand how different types of automated tests will fit into your testing strategy, including unit testing, load and performance testing, visual testing, and more Who This Book Is For Those involved with software development such as test automation leads, QA managers, test automation developers, and development managers. Some parts of the book assume hands-on experience in writing code in an object-oriented language (mainly C# or Java), although most of the content is also relevant for nonprogrammers.

Testing the Data Warehouse Practicum - Doug Vucevic 2012-08-22

The quality of a data warehouse (DWH) is the elusive aspect of it, not because it is hard to achieve [once we agree what it is], but because it is difficult to describe. We propose the notion that quality is not an attribute or a feature that a product has to possess, but rather a relationship between that product and each and every stakeholder. More specifically, the relationship between the software quality and the organization that produces the products is explored. Quality of data that populates the DWH is the main concern of the book, therefore we propose a definition for data quality as: fitness to serve each and every purpose. Methods are proposed throughout the book to help readers achieve data warehouse quality.

Hand Coding Coded UI - G. Suden 2017-06-06

This book is aimed at testers who want to try their hands at automated testing using Coded UI, which is available as part of Microsoft(R) Visual Studio(R) (Enterprise Edition). Coded UI has empowered developers and automation testers to work using the same automation tool and language, hence enabling them to collaborate more efficiently and effectively. Moreover, Coded UI can be used for both Web and Windows-based Applications which enables automation testers to devise a single Automation Framework that reuses common code and libraries. This book provides a step by step guide that will teach you how to setup the Automation Framework from scratch using Coded UI. It includes complete listings of the hand coded automation code for the demo Website, Windows-based applications (Windows Forms and WPF Applications) and Web Service that have been developed for you to test against. The code listings explain the logic of individual tests, repositories and generic functions. The hand coding approach used in this book can be applied to any project which aims to use Coded UI as the test automation tool. In this book, you will: Learn Golden Automation Rules. Understand UI Controls and their hierarchy in Coded UI. Learn about Control Identification Mechanism used in Coded UI. Set up the Automation Framework and Object Repository from scratch. Add important features to the Automation Framework such as reporting result comparisons, saving screenshots, logging information to the Standard Output window & CSV files, generating Test Result Summary etc. Automate testing of Web Applications using UITestControls and HtmlControls. Perform Data Driven Testing using Microsoft Excel data sources. Perform Cross Browser Testing using Firefox, Chrome, Internet Explorer and Microsoft Edge. Automate testing of Web Services. Automate testing of Windows Forms Applications using WinControls. Automate testing of Windows Presentation Foundation (WPF) Applications using WpfControls. Get robust library of generic functions. Complete with automation code for the demo Website, Web Service, Windows Forms Application and WPF Application. Since this book has been designed to be a Practical Oriented Approach, we will adhere to the following steps in each section of a chapter (wherever applicable): define a Test Scenario using one of the demo applications - Website, Windows Forms Application, WPF Application or the Web Service. define the required Configuration Parameters in the Configuration File. write code for the required controls in the Repository File. write code for the required generic functions in the Utility File. write code for the business process in the Page File. write code for the test logic as per the Test Scenario (defined in the beginning) in the Test File. finally, execute the test and view the Outcome.

Python Testing - Daniel Arbuckle 2010-01-01

The book begins with the very foundations of automated testing, and expands on them until the best-practice tools and techniques are fully covered. New concepts are illustrated with step-by-step hands-on exercises. Testing will be easier and more enjoyable with this beginner's

guide. If you are a Python developer and want to write tests for your applications, this book will get you started and show you the easiest way to learn testing. You need to have sound Python programming knowledge to follow along. An awareness of software testing would be good, but no formal knowledge of testing is expected nor do you need to have any knowledge of the libraries discussed in the book.

Automated Software Testing with Cypress - Narayanan Palani
2021-04-20

Unit Integration Testing (UIT) had been a challenge because there was no tool that could help in XHR programming and unit integration validations in an efficient way until Cypress arrived. Cypress started releasing versions in 2015 and became popular in 2018 with version 2.0.0. This book explores Cypress scripts that help implement 'shift left testing', which is a dream come true for many software testers. Shift left occurs in the majority of testing projects, but could not be implemented fully because tools were unavailable and knowledge was lacking about the possibilities of testing early in the life cycle. Shift left is a key testing strategy to help testing teams focus less on defect identifications and more on developing practices to prevent defects. Cypress scripts can help front-end developers and quality engineers to work together to find defects soon after web components are built. These components can be tested immediately after they are built with Cypress Test Driven Development (TDD) scripts. Thus, defects can be fixed straight away during the development stage. Testing teams do not have to worry about finding these same defects in a later development stage because Cypress tests keep verifying components in the later stages. Defect fixing has become much cheaper with Cypress than when other tools are used. The book also covers Behaviour Driven Development (BDD)-based Gherkin scripts and the Cypress Cucumber preprocessor, which can improve test scenario coverage. Automated Software Testing with Cypress is written to fulfil the BDD and TDD needs of testing teams. Two distinct open source repositories are provided in Github to help start running Cypress tests in no time

Thoughtful Machine Learning - Matthew Kirk 2014-09-26

Learn how to apply test-driven development (TDD) to machine-learning algorithms—and catch mistakes that could sink your analysis. In this practical guide, author Matthew Kirk takes you through the principles of TDD and machine learning, and shows you how to apply TDD to several machine-learning algorithms, including Naive Bayesian classifiers and Neural Networks. Machine-learning algorithms often have tests baked in, but they can't account for human errors in coding. Rather than blindly rely on machine-learning results as many researchers have, you can mitigate the risk of errors with TDD and write clean, stable machine-learning code. If you're familiar with Ruby 2.1, you're ready to start. Apply TDD to write and run tests before you start coding Learn the best uses and tradeoffs of eight machine learning algorithms Use real-world examples to test each algorithm through engaging, hands-on exercises Understand the similarities between TDD and the scientific method for validating solutions Be aware of the risks of machine learning, such as underfitting and overfitting data Explore techniques for improving your machine-learning models or data extraction

Automated Software Testing - Elfriede Dustin 1999-06-28

With the urgent demand for rapid turnaround on new software releases--without compromising quality--the testing element of software development must keep pace, requiring a major shift from slow, labor-intensive testing methods to a faster and more thorough automated testing approach. Automated Software Testing is a comprehensive, step-by-step guide to the most effective tools, techniques, and methods for automated testing. Using numerous case studies of successful industry implementations, this book presents everything you need to know to successfully incorporate automated testing into the development process. In particular, this book focuses on the Automated Test Life Cycle Methodology (ATLM), a structured process for designing and executing testing that parallels the Rapid Application Development methodology commonly used today. Automated Software Testing is designed to lead you through each step of this structured program, from

the initial decision to implement automated software testing through test planning, execution, and reporting. Included are test automation and test management guidance for: Acquiring management support Test tool evaluation and selection The automated testing introduction process Test effort and test team sizing Test team composition, recruiting, and management Test planning and preparation Test procedure development guidelines Automation reuse analysis and reuse library Best practices for test automation

Intelligent Data Engineering and Automated Learning -- IDEAL 2013 - Hujun Yin 2013-10-16

This book constitutes the refereed proceedings of the 14th International Conference on Intelligent Data Engineering and Automated Learning, IDEAL 2013, held in Hefei, China, in October 2013. The 76 revised full papers presented were carefully reviewed and selected from more than 130 submissions. These papers provided a valuable collection of latest research outcomes in data engineering and automated learning, from methodologies, frameworks and techniques to applications. In addition to various topics such as evolutionary algorithms, neural networks, probabilistic modelling, swarm intelligent, multi-objective optimisation, and practical applications in regression, classification, clustering, biological data processing, text processing, video analysis, including a number of special sessions on emerging topics such as adaptation and learning multi-agent systems, big data, swarm intelligence and data mining, and combining learning and optimisation in intelligent data engineering.

Warehouse and Distribution Automation Handbook - Nicholas D. Adams 1996

In clear, easy-to-understand language, this practical reference explains how automation can help you achieve an efficient, responsive, cost-competitive warehouse operation. You'll learn how to reap the benefits of automation - including on-time delivery, traceable and real-time audit trails, and accurate inventory control - while lowering operating costs. The Warehouse and Distribution Automation Handbook serves as a step-by-step guide for engineers, managers, and operations personnel through the entire automation implementation process.

Databases A Beginner's Guide - Andy Opper 2009-05-31

Essential Database Skills--Made Easy! Learn standard database design and management techniques applicable to any type of database. Featuring clear examples using both Microsoft Access and Oracle, Databases: A Beginner's Guide begins by showing you how to use Structured Query Language (SQL) to create and access database objects. Then, you'll discover how to implement logical design using normalization, transform the logical design into a physical database, and handle data and process modeling. You'll also get details on database security, online analytical processing (OLAP), connecting databases to applications, and integrating XML and object content into databases. Designed for Easy Learning Key Skills & Concepts--Chapter-opening lists of specific skills covered in the chapter Ask the Expert--Q&A sections filled with bonus information and helpful tips Try This--Hands-on exercises that show you how to apply your skills Notes--Extra information related to the topic being covered Self Tests--Chapter-ending quizzes to test your knowledge

Advances and Applications in Model-Driven Engineering, Vicente García 2013-08-31

As organizations and research institutions continue to emphasize model-driven engineering (MDE) as a first-class approach in the software development process of complex systems, the utilization of software in multiple domains and professional networks is becoming increasingly vital. Advances and Applications in Model-Driven Engineering explores this relatively new approach in software development that can increase the level of abstraction of development of tasks. This publication covers the issues of bridging the gaps between various disciplines within software engineering and computer science. Professionals, researchers, and students will discover the most current tools and techniques available in the field to maximize efficiency of model-driven software development.