

Automation Testing Practical Guide

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.

Agile Testing Lisa Crispin

2008-12-30 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.

A Practical Guide to Testing Wireless Smartphone

Applications Julian Harty

2022-06-01 Testing

applications for mobile phones is difficult, time-consuming, and hard to do effectively.

Many people have limited their testing efforts to hands-on testing of an application on a few physical handsets, and they have to repeat the process every time a new version of the software is ready to test. They

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may miss many of the permutations of real-world use, and as a consequence their users are left with the unpleasant mess of a failing application on their phone. Test automation can help to increase the range and scope of testing, while reducing the overhead of manual testing of each version of the software. However automation is not a panacea, particularly for mobile applications, so we need to pick our test automation challenges wisely. This book is intended to help software and test engineers pick appropriately to achieve more; and as a consequence deliver better quality, working software to users. This Synthesis lecture provides practical advice based on direct experience of using software test automation to help improve the testing of a wide range of mobile phone applications, including the latest AJAX applications. The focus is on applications that rely on a wireless network connection to a remote server, however the principles may

apply to other related fields and applications. We start by explaining terms and some of the key challenges involved in testing smartphone applications. Subsequent chapters describe a type of application e.g. markup, AJAX, Client, followed by a related chapter on how to test each of these applications. Common test automation techniques are covered in a separate chapter, and finally there is a brief chapter on when to test manually. The book also contains numerous pointers and links to further material to help you to improve your testing using automation appropriately. Table of Contents: Introduction / Markup Languages / Testing Techniques for Markup Applications / AJAX Mobile Applications / Testing Mobile AJAX Applications / Client Applications / Testing Techniques for Client Applications / Common Techniques / When to Test Manually / Future Work / Appendix A: Links and References / Appendix B: Data

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Connectivity / Appendix C:
Configuring Your Machine
*A Simple Guide to Software
Testing!* Narasimhan G R
2023-06-11 Welcome to the
world of software testing,
where the effectiveness and
reliability of software
applications are put to the
ultimate test. In this book,
"Manual and Automated
Software Testing," we embark
on a journey to explore the
intricate realm of software
testing, shedding light on both
manual and automated
techniques that play a vital role
in ensuring software quality in
brief and simple way. In today's
digital age, where software
applications have become an
integral part of our daily lives,
it is essential to deliver
products that not only meet
user expectations but also
function flawlessly. Software
testing serves as the
cornerstone of this process,
enabling organizations to
identify defects, mitigate risks,
and provide a seamless user
experience. You can learn the
fundamentals & types of
Software Testing, the key

concepts, methodologies, and
terminologies that form the
basis of this discipline. From
test planning and test case
design to test execution and
defect management, we cover
the entire testing life cycle,
providing you with a solid
foundation. We delve into the
world of manual testing, where
human intervention plays a
crucial role. We explore
various techniques such as
black-box testing, white-box
testing, and grey-box testing,
explaining their purpose and
how they are executed.
Through practical examples
and real-world scenarios, we
demonstrate how manual
testing can effectively uncover
defects and validate software
functionality. Software Quality
Automation has revolutionized
the field of software testing,
enabling faster and more
efficient validation of
applications. In this chapter,
we demystify test automation,
shedding light on the tools,
frameworks, and best practices
involved. Combining Manual
and Automated Testing for
Optimal Results While manual

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and automated testing techniques each have their strengths, combining them strategically can yield remarkable results. We also explore how manual and automated testing can complement each other, creating a robust testing approach. Effective test management and documentation are critical to any successful testing endeavor. We explore test management tools and methodologies that help streamline the testing process and ensure clear communication between testers, developers, and stakeholders. Special Testing area, software applications must also meet performance and security standards. The performance testing and security testing, two specialized areas within software testing. We discuss testing methods to evaluate application performance under different conditions and methods to identify vulnerabilities and protect against potential threats. We

can also explore emerging trends such as artificial intelligence, machine learning, and DevOps, and their impact on the testing landscape. We also discuss the importance of continuous testing in an agile development environment. More advanced topics could be found from various online resources. Wish you good luck!

[Mastering Test Automation](#)
Chizitere Sylvia Sylvia Olebu
2025-05-03 Mastering Test Automation: A Practical Guide to Scalable and Efficient Testing isn't just another technical manual; it's a lifeline for anyone tired of battling flaky scripts, fragile pipelines, and endless debugging cycles. In today's fast-moving world of microservices, CI/CD, and AI-driven apps, traditional testing methods no longer cut it. This guide cuts through the noise, offering a clear, experience-backed roadmap for building smart, stable, and scalable automation strategies that work under pressure. Whether you're a QA engineer scaling your test coverage, a developer tired of brittle codebases, a

tech lead seeking a reliable strategy, or just someone entering the world of automation, this book meets you where you are and helps you level up. Inside, you'll discover: The evolution of test automation from its earliest days to today's AI-enhanced pipelines Practical frameworks like BDD, POM, hybrid systems, and more Tooling deep-dives: Selenium, Cypress, Playwright, Appium, RestAssured, Postman, and beyond Strategies for integrating automation into CI/CD pipelines, not just bolting it on Real-world case studies in healthcare, finance, e-commerce, logistics, and telecom The emerging role of AI, visual validation, and self-healing tests Best practices for building maintainable, resilient automation that scales with your codebase Written with clarity, honesty, and a deep respect for the real-world challenges of software teams, *Mastering Test Automation* goes beyond buzzwords and trends. It's packed with field-tested strategies, practical

templates, and hard-earned insights, designed to help you build systems that don't just pass tests but survive real-world scale. If you've ever thought, "There must be a better way to do this," this book is for you.

Software Testing Martin Pol 2002 This book will: Introduce you to the method and take you through it step-by-step Enable you to address and deal with organizational issues, including functions within a team, training, consulting and administration of the process Cover practical infrastructure issues, like the option of using an automation tool to aid the test process Outline the different development situations in which TMap has been used, for example, client server, GUI, Object-Oriented, ERP and web-enabled scenarios, and give tips on what problems to look out for in each one

Introduction to Software Testing Panagiotis Leloudas 2023 Get started and hit the ground running in the world of software testing. This simple

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and practical guide teaches you the fundamentals of software testing, with no prior experience required. You will start by learning functional and non-functional software testing. Then you will gain an understanding of the primary responsibilities of a tester in the Software Development Life Cycle and how to plan and execute testing activities. You will also learn how testing applies to an agile environment, what challenges you might face in your day-to-day life as a tester, and how to overcome them. You will learn the most commonly used test design techniques, with ample examples and exercises to practice yourself. By the end of this book, you will understand the software testing ecosystem, from its types, techniques, and tools, to test planning, execution, and reporting. You will: Master the fundamentals of Software Testing Gain an understanding of different software testing types Plan and execute testing activities Apply test design techniques to concrete examples.

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How to Test a Time Machine

Noemí Ferrera 2023-03-31

End-to-end solutions and options for test architecture and methodologies. Achieve better quality and faster projects in an enjoyable way taking your career to the next level. Key Features Explore the full test architecture spectrum Discover a range of challenging automation applications with real-world scenarios Learn with easy-to-follow start-up examples including DevOps for testing, AI, XR, and cloud Book Description From simple websites to complex applications, delivering quality is crucial for achieving customer satisfaction. How to Test a Time Machine provides step-by-step explanations of essential concepts and practical examples to show you how you can leverage your company's test architecture from different points in the development life cycle. You'll begin by determining the most effective system for measuring and improving the delivery of

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quality applications for your company, and then learn about the test pyramid as you explore it in an innovative way. You'll also cover other testing topics, including cloud, AI, and VR for testing. Complete with techniques, patterns, tools, and exercises, this book will help you enhance your understanding of the testing process. Regardless of your current role within development, you can use this book as a guide to learn all about test architecture and automation and become an expert and advocate for quality assurance. By the end of this book, you'll be able to deliver high-quality applications by implementing the best practices and testing methodologies included in the book. What you will learn

Identify quality maturity and processes to get your product to the next quality level Learn how to think out of the box for testing Learn about types of tests and how to apply them from a unique perspective Understand how to apply different technologies into

testing Cool code exercises and tools that could be of use for practicing and polishing your testing skills Own quality and use it for career growth Who this book is for This book is for test owners, developers, managers, manual QAs, SDETS, team leads, and systems engineers who wish to get started or improve the current QA systems. Test owners looking for inspiration and out-of-the-box solutions for challenging issues will also find this book useful.

Writing Clean Code Step by Step: A Practical Guide with Examples William E. Clark
2025-04-19 Writing Clean Code Step by Step: A Practical Guide with Examples provides a clear and structured roadmap for developing high-quality software from the ground up. Covering fundamental programming concepts, essential coding principles, and industry best practices, this book is tailored for both beginners and those seeking to reinforce the foundations of clean coding. Each chapter delivers concise explanations,

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actionable advice, and practical examples that foster an understanding of how to write code that is readable, reliable, and maintainable. The book's content spans the full software development workflow, including project organization, effective naming conventions, modular design, robust error handling, and defensible data management. Readers learn how to structure projects logically, adopt naming practices that enhance clarity, implement systematic testing strategies, and employ safe refactoring methods. Critical concepts such as encapsulation, immutability, and defensive programming are presented in detail to build confidence in addressing real-world development challenges. By following this guide, readers will acquire a comprehensive toolkit for producing clear and well-organized code, minimizing errors, and facilitating collaboration within development teams. Emphasis is placed on long-term code quality, enabling developers to build software that stands up

to ongoing change and adaptation. Whether entering the field or striving to establish best practices, readers will emerge with a practical understanding of how to continually improve their codebases and contribute meaningfully to any software project.

Software Engineering for Agile Application Development Pang, Chung-Yeung 2020-02-14 As the software industry continues to evolve, professionals are continually searching for practices that can assist with the various problems and challenges in information technology (IT). Agile development has become a popular method of research in recent years due to its focus on adapting to change. There are many factors that play into this process, so success is no guarantee. However, combining agile development with other software engineering practices could lead to a high rate of success in problems that arise during the maintenance and development of computing technologies.

Software Engineering for Agile Application Development is a collection of innovative research on the methods and implementation of adaptation practices in software development that improve the quality and performance of IT products. The presented materials combine theories from current empirical research results as well as practical experiences from real projects that provide insights into incorporating agile qualities into the architecture of the software so that the product adapts to changes and is easy to maintain. While highlighting topics including continuous integration, configuration management, and business modeling, this book is ideally designed for software engineers, software developers, engineers, project managers, IT specialists, data scientists, computer science professionals, researchers, students, and academics.

Selenium WebDriver Practical Guide Satya Avasarala 2014 An easy- to- follow guide, featuring step-by-step practical tutorials

to help you understand how to automate web applications for testing purposes. If you are a quality assurance / testing professional, a software developer, or a web application developer looking to create automation test scripts for your web applications, this is the perfect guide for you! As a prerequisite, this book expects you to have a basic knowledge of Core Java, although any previous knowledge of WebDriver or Selenium-1 is not needed. By the end of this book, you will have acquired a comprehensive knowledge of WebDriver.

Selenium WebDriver 3 Practical Guide Pallavi Sharma 2018-07-31 Real-world examples of cross-browser, mobile, and data-driven testing with all the latest features of Selenium WebDriver 3 Key Features Unlock the full potential of Selenium to test your web applications Use Selenium Grid for faster, parallel running, and cross-browser testing Test iOS and Android Apps with Appium Book Description Selenium

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WebDriver is an open source automation tool implemented through a browser-specific driver, which sends commands to a browser and retrieves results. The latest version of Selenium 3 brings with it a lot of new features that change the way you use and setup Selenium WebDriver. This book covers all those features along with the source code, including a demo website that allows you to work with an HTML5 application and other examples throughout the book. Selenium WebDriver 3 Practical Guide will walk you through the various APIs of Selenium WebDriver, which are used in automation tests, followed by a discussion of the various WebDriver implementations available. You will learn to strategize and handle rich web UI using advanced WebDriver API along with real-time challenges faced in WebDriver and solutions to handle them. You will discover different types and domains of testing such as cross-browser testing, load testing, and mobile testing with Selenium. Finally, you will

also be introduced to data-driven testing using TestNG to create your own automation framework. By the end of this book, you will be able to select any web application and automate it the way you want. What you will learn

- Understand what Selenium 3 is and how it has been improved than its predecessor
- Use different mobile and desktop browser platforms with Selenium 3
- Perform advanced actions, such as drag-and-drop and action builders on web page
- Learn to use Java 8 API and Selenium 3 together
- Explore remote WebDriver and discover how to use it
- Perform cross browser and distributed testing with Selenium Grid
- Use Actions API for performing various keyboard and mouse actions

Who this book is for

Selenium WebDriver 3 Practical Guide is for software quality assurance/testing professionals, software project managers, or software developers interested in using Selenium for testing their applications. Prior programming experience in

Java is necessary.

An Introductory Guide to EC Competition Law and Practice
Valentine Korah 1994

[Annual Review of Information Science and Technology](#) Carlos A. Cuadra 1982-09

Mastering Test Automation: A Practical Guide to Scalable and Efficient Testing Chizitere Sylvia Olebu 2025-05-01

Mastering Test Automation: A Practical Guide to Scalable and Efficient Testing isn't just another technical manual; it's a lifeline for anyone tired of battling flaky scripts, fragile pipelines, and endless debugging cycles. In today's fast-moving world of microservices, CI/CD, and AI-driven apps, traditional testing methods no longer cut it. This guide cuts through the noise, offering a clear, experience-backed roadmap for building smart, stable, and scalable automation strategies that work under pressure. Whether you're a QA engineer scaling your test coverage, a developer tired of brittle codebases, a tech lead seeking a reliable strategy, or just someone

entering the world of automation, this book meets you where you are and helps you level up. Inside, you'll discover:

- The evolution of test automation from its earliest days to today's AI-enhanced pipelines
- Practical frameworks like BDD, POM, hybrid systems, and more
- Tooling deep-dives: Selenium, Cypress, Playwright, Appium, RestAssured, Postman, and beyond
- Strategies for integrating automation into CI/CD pipelines, not just bolting it on
- Real-world case studies in healthcare, finance, e-commerce, logistics, and telecom
- The emerging role of AI, visual validation, and self-healing tests
- Best practices for building maintainable, resilient automation that scales with your codebase

Written with clarity, honesty, and a deep respect for the real-world challenges of software teams, *Mastering Test Automation* goes beyond buzzwords and trends. It's packed with field-tested strategies, practical templates, and hard-earned insights, designed to help you

build systems that don't just pass tests but survive real-world scale. If you've ever thought, "There must be a better way to do this," this book is for you.

Data Engineering on the Cloud: A Practical Guide 2025 Raghu Gopa, Dr. Arpita Roy

PREFACE

The digital transformation of businesses and the exponential growth of data have created a fundamental shift in how organizations approach data management, analytics, and decision-making. As cloud technologies continue to evolve, cloud-based data engineering has become central to the success of modern data-driven enterprises. "Data Engineering on the Cloud: A Practical Guide" aims to equip data professionals, engineers, and organizations with the knowledge and practical tools needed to build and manage scalable, secure, and efficient data engineering pipelines in cloud environments. This book is designed to bridge the gap between the theoretical foundations of data

engineering and the practical realities of working with cloud-based data platforms. Cloud computing has revolutionized data storage, processing, and analytics by offering unparalleled scalability, flexibility, and cost efficiency. However, with these opportunities come new challenges, including selecting the right tools, architectures, and strategies to ensure seamless data integration, transformation, and delivery. As businesses increasingly migrate their data to the cloud, it is essential for data engineers to understand how to leverage the capabilities of the cloud to build robust data pipelines that can handle large, complex datasets in real-time. Throughout this guide, we will explore the various facets of cloud-based data engineering, from understanding cloud storage and computing services to implementing data integration techniques, managing data quality, and optimizing performance. Whether you are building data pipelines from scratch,

migrating on-premises systems to the cloud, or enhancing existing data workflows, this book will provide actionable insights and step-by-step guidance on best practices, tools, and frameworks commonly used in cloud data engineering. Key topics covered in this book include:

- The fundamentals of cloud architecture and the role of cloud providers (such as AWS, Google Cloud, and Microsoft Azure) in data engineering workflows.
- Designing scalable and efficient data pipelines using cloud-based tools and services.
- Integrating diverse data sources, including structured, semi-structured, and unstructured data, for seamless processing and analysis.
- Data transformation techniques, including ETL (Extract, Transform, Load) and ELT (Extract, Load, Transform), in cloud environments.
- Ensuring data quality, governance, and security when working with cloud data platforms.
- Optimizing performance for data storage, processing, and

analytics to handle growing data volumes and complexity. This book is aimed at professionals who are already familiar with data engineering concepts and are looking to apply those concepts within cloud environments. It is also suitable for organizations that are in the process of migrating to cloud-based data platforms and wish to understand the nuances and best practices for cloud data engineering. In addition to theoretical knowledge, this guide emphasizes hands-on approaches, providing practical examples, code snippets, and real-world case studies to demonstrate the effective implementation of cloud-based data engineering solutions. We will explore how to utilize cloud-native services to streamline workflows, improve automation, and reduce manual interventions in data pipelines. Throughout the book, you will gain insights into the evolving tools and technologies that make data engineering more agile, reliable, and efficient. The role of data engineering is

growing ever more important in enabling businesses to unlock the value of their data. By the end of this book, you will have a comprehensive understanding of how to leverage cloud technologies to build high-performance, scalable data engineering solutions that are aligned with the needs of modern data-driven organizations. We hope this guide helps you to navigate the complexities of cloud data engineering and helps you unlock new possibilities for your data initiatives. Welcome to “Data Engineering on the Cloud: A Practical Guide.” Let’s embark on this journey to harness the full potential of cloud technologies in the world of data engineering. Authors

API Testing and Development with Postman
Dave Westerveld 2021-05-07
Explore the world of APIs and learn how to integrate them with production-ready applications using Postman and the Newman CLI Key Features
Learn the tenets of effective API testing and API design
Gain an in-depth understanding

of the various features Postman has to offer Know when and how to use Postman for creating high-quality APIs for software and web apps Book Description Postman enables the exploration and testing of web APIs, helping testers and developers figure out how an API works. With Postman, you can create effective test automation for any APIs. If you want to put your knowledge of APIs to work quickly, this practical guide to using Postman will help you get started. The book provides a hands-on approach to learning the implementation and associated methodologies that will have you up and running with Postman in no time. Complete with step-by-step explanations of essential concepts, practical examples, and self-assessment questions, this book begins by taking you through the principles of effective API testing. A combination of theory coupled with real-world examples will help you learn how to use Postman to create well-designed, documented, and

tested APIs. You'll then be able to try some hands-on projects that will teach you how to add test automation to an already existing API with Postman, and guide you in using Postman to create a well-designed API from scratch. By the end of this book, you'll be able to use Postman to set up and run API tests for any API that you are working with. What you will learn Find out what is involved in effective API testing Use data-driven testing in Postman to create scalable API tests Understand what a well-designed API looks like Become well-versed with API terminology, including the different types of APIs Get to grips with performing functional and non-functional testing of an API Discover how to use industry standards such as OpenAPI and mocking in Postman Who this book is for The book is for software testing professionals and software developers looking to improve product and API quality through API test automation. You will find this book useful if understand APIs and want to

build your skills for creating, testing, and documenting APIs. The book assumes beginner-level knowledge of JavaScript and API development.

Automating the Modern Enterprise: A Practical Guide to DevOps, CI/CD 2025

Srikanth Srinivas, Prof (Dr) M Seetharama Prasad PREFACE

In today's fast-paced, technology-driven world, businesses must innovate and adapt quickly to stay competitive. The traditional approaches to software development and deployment, which often involve extended release cycles, manual interventions, and siloed teams, are no longer sufficient to meet the demands of modern enterprises. As organizations increasingly rely on technology to fuel growth and deliver value to customers, the need for agility, speed, and continuous improvement has never been more critical. This is where DevOps and Continuous Integration/Continuous Deployment (CI/CD) come into play. "Automating the Modern

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Enterprise: A Practical Guide to DevOps, CI/CD” is designed to provide a comprehensive roadmap for implementing DevOps practices and CI/CD pipelines in modern enterprises. This book offers a firsthand, practical approach to automation, aimed at helping organizations break down traditional silos, streamline development processes, and accelerate the delivery of high-quality software. Whether you are an IT leader, a developer, a DevOps engineer, or a business executive, this guide will equip you with the knowledge and tools to harness the power of automation and transform your organization’s software development and delivery process. DevOps is not just a set of tools or practices; it is a cultural shift that encourages collaboration, transparency, and shared responsibility across development, operations, and security teams. By automating key parts of the software lifecycle—such as build, testing, deployment, and monitoring—DevOps helps organizations increase

productivity, improve quality, and respond to customer needs more quickly. CI/CD, as the cornerstone of DevOps, enables teams to deliver code changes rapidly and reliably, ensuring that software is always in a deployable state. In this book, we explore the full spectrum of DevOps and CI/CD practices, from building and optimizing pipelines to integrating security and monitoring into the process. We provide in-depth discussions of the key principles of DevOps, covering topics like continuous integration, continuous deployment, version control, configuration management, and automated testing. You will also learn how to leverage tools like Jenkins, GitLab, Ansible, Docker, Kubernetes, and many others to automate and streamline your software development and deployment processes. One of the key aspects of successful DevOps implementation is fostering collaboration and communication across teams. We dive into how you can create a culture that embraces

change, continuous learning, and shared accountability. We also highlight the importance of incorporating security into every step of the development pipeline—what is often referred to as DevSecOps—ensuring that your automation efforts do not compromise the security of your systems. As enterprises grow and the complexity of their software systems increases, scaling DevOps and CI/CD becomes an essential challenge. This book addresses how to scale automation to meet the demands of large organizations, optimizing pipeline performance, managing infrastructure as code, and ensuring that your DevOps practices evolve with your enterprise’s needs. The transformation to DevOps and CI/CD is not without its challenges. Legacy systems, organizational resistance, and the complexities of integrating diverse tools can slow down progress. However, the benefits of this transformation are undeniable: faster release cycles, higher-quality software, improved collaboration, and

enhanced customer satisfaction. This book will provide you with the strategies, tools, and real-world examples needed to overcome these challenges and drive successful DevOps adoption. By the end of this guide, you will have a clear understanding of how to implement and scale DevOps and CI/CD within your organization. You will also have practical knowledge to automate repetitive tasks, optimize workflows, reduce downtime, and empower your teams to deliver value faster. Whether you are just beginning your DevOps journey or looking to refine your existing practices, this book will serve as an invaluable resource for transforming your enterprise into a fully automated, agile, and modern software-driven organization. Welcome to the future of enterprise automation. Let us get started.

Authors

Instant Approach to Software Testing Dr Anand Nayyar

2019-10-22 One-stop Guide to software testing types, software errors, and planning

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process DESCRIPTION

Software testing is conducted to assist testers with information to improvise the quality of the product under testing. The book primarily aims to present testing concepts, principles, practices, methods cum approaches used in practice. The book will help the readers to learn and detect faults in software before delivering it to the end user. The book is a judicious mix of software testing concepts, principles, methodologies, and tools to undertake a professional course in software testing. The book will be a useful resource for students, academicians, industry experts, and software architects to learn artefacts of testing. The book discuss the foundation and primary aspects connected to the world of software testing, then it discusses the levels, types and terminologies associated with software testing. In the further chapters it will gives a comprehensive overview of software errors faced in software testing as well as various techniques for

error detection, then the test case development and security testing. In the last section of the book the book discusses the defect tracking, test reports, software automation testing using the Selenium tool and then ISO/IEEE-based software testing standards. KEY FEATURES

- Presents a comprehensive investigation about the software testing approach in terms of techniques, tools and standards
- Highlights test case development and defect tracking
- In-depth coverage of test reports development
- Covers the Selenium testing tool in detail
- Comprehensively covers IEEE/ISO/IEC software testing standards

WHAT WILL YOU LEARN

With this book, the readers will be able to learn: Taxonomy, principles and concepts connected to software testing. Software errors, defect tracking, and the entire testing process to create quality products. Generate test cases and reports for detecting errors, bugs, and faults. Automation testing using the Selenium testing tool. Software

testing standards as per IEEE/ISO/IEC to conduct standard and quality testing. **WHO THIS BOOK IS FOR** The readers should have a basic understanding of software engineering concepts, object-oriented programming and basic programming fundamentals. **Table of Contents**

1. Introduction to Software Testing
2. Software Testing Levels, Types, Terms, and Definitions
3. Software Errors
4. Test Planning Process (According to IEEE standard 829)
5. Test Case Development
6. Defect Tracking
7. Types of Test Reports
8. Software Test Automation
9. Understanding the Software Testing Standards

Automation Testing Practical Guide

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lombok.com, Automation Testing Practical Guide PDF eBook download haven that beckons readers into a world of literary wonders. In this Automation Testing Practical Guide review, we will delve into the intricacies of the platform, exploring its features, content diversity, user interface, and the overall reading experience it promises.

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