
File Type PDF Services Web And Applications Web Of Testing Security And Functional Software Web Break To How

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KEY=WEB - KELLEY VALENTINE

HOW TO BREAK WEB SOFTWARE

FUNCTIONAL AND SECURITY TESTING OF WEB APPLICATIONS AND WEB SERVICES

Addison-Wesley Professional Rigorously test and improve the security of all your Web software! It's as certain as death and taxes: hackers will mercilessly attack your Web sites, applications, and services. If you're vulnerable, you'd better discover these attacks yourself, before the black hats do. Now, there's a definitive, hands-on guide to security-testing any Web-based software: How to Break Web Software. In this book, two renowned experts address every category of Web software exploit: attacks on clients, servers, state, user inputs, and more. You'll master powerful attack tools and techniques as you uncover dozens of crucial, widely exploited flaws in Web architecture and coding. The authors reveal where to look for potential threats and attack vectors, how to rigorously test for each of them, and how to mitigate the problems you find. Coverage includes · Client vulnerabilities, including attacks on client-side validation · State-based attacks: hidden fields, CGI parameters, cookie poisoning, URL jumping, and session hijacking · Attacks on user-supplied inputs: cross-site scripting, SQL injection, and directory traversal · Language- and technology-based attacks: buffer overflows, canonicalization, and NULL string attacks · Server attacks: SQL Injection with stored procedures, command injection, and server fingerprinting · Cryptography, privacy, and attacks on Web services Your Web software is mission-critical-it can't be compromised. Whether you're a developer, tester, QA specialist, or IT manager, this book will help you protect that software-systematically.

TESTING APPLICATIONS ON THE WEB

TEST PLANNING FOR INTERNET-BASED SYSTEMS

John Wiley & Sons A software testing survival guide for those who work in Internet time With Internet applications spreading like wildfire, the field of software testing is increasingly challenged by the brave new networked world of e-business. This book brings you up to speed on the technologies, testing concepts, and tools you'll need to run e-business applications on the Web. Written by Hung Nguyen, a coauthor of the bestselling software testing book of all time, Testing Computer Software, this new guide takes you to the next level, helping you apply your existing skills to the testing of B2B (Business-to-Business), B2C (Business-to-Consumer), and internal Web-based applications. You'll learn how to test transactions across networks, explore complex systems for errors, and work efficiently with the many components at play--from servers to browsers to protocols. Most importantly, you'll get detailed instructions on how to carry out specific test types along with case studies and error examples for each test. Software testers, test leads and test managers, QA analysts and managers, and IT managers and staff will find this an invaluable resource for their testing projects. With an emphasis on achievable goals and necessary rather than nice-to-have features, Testing Applications on the Web provides: An analysis of the Web-application model and the difference between Web testing and traditional testing A tutorial on the methodology and techniques for networking technologies and component-based testing Strategies for test planning, test case designing, and error analysis on the Web Effective real-world practices for UI (User Interface) tests, security tests, installation tests, load and stress tests, database tests, and more A survey of commercial tools and a sampling of proven test matrices and templates

TEST AND ANALYSIS OF WEB SERVICES

Springer Science & Business Media The authors have here put together the first reference on all aspects of testing and validating service-oriented architectures. With contributions by leading academic and industrial research groups it offers detailed guidelines for the actual validation process. Readers will find a comprehensive survey of state-of-the-art approaches as well as techniques and tools to improve the quality of service-oriented applications. It also includes references and scenarios for future research and development.

WEB SECURITY TESTING COOKBOOK

SYSTEMATIC TECHNIQUES TO FIND PROBLEMS FAST

"**O'Reilly Media, Inc.**" Among the tests you perform on web applications, security testing is perhaps the most important, yet it's often the most neglected. The recipes in the Web Security Testing Cookbook demonstrate how developers and testers can check for the most common web security issues, while conducting unit tests, regression tests, or exploratory tests. Unlike ad hoc security assessments, these recipes are repeatable, concise, and systematic-perfect for integrating into your regular test suite. Recipes cover the basics from observing messages between clients and servers to multi-phase tests that script the login and execution of web application features. By the end of the book, you'll be able to build tests pinpointed at Ajax functions, as well as large multi-step tests for the usual suspects: cross-site scripting and injection attacks. This book helps you: Obtain, install, and configure useful and free-security testing tools Understand how your application communicates with users, so you can better simulate attacks in your tests Choose from many different methods that simulate common attacks such as SQL injection, cross-site scripting, and manipulating hidden form fields Make your tests repeatable by using the scripts and examples in the recipes as starting points for automated tests Don't live in dread of the midnight phone call telling you that your site has been hacked. With Web Security Testing Cookbook and the free tools used in the book's examples, you can incorporate security coverage into your test suite, and sleep in peace.

ASP.NET COOKBOOK

"**O'Reilly Media, Inc.**" Provides information on Web site development using ASP.NET 2.0.

AUTOMATED WEB TESTING

STEP BY STEP AUTOMATION GUIDE

Createspace Independent Publishing Platform 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.

THE ART OF APPLICATION PERFORMANCE TESTING

HELP FOR PROGRAMMERS AND QUALITY ASSURANCE

"**O'Reilly Media, Inc.**" This practical book provides a step-by-step approach to testing mission-critical applications for scalability and performance before they're deployed -- a vital topic to which other books devote one chapter, if that. Businesses today live and die by network applications and web services. Because of the increasing complexity of these programs, and the pressure to deploy them quickly, many professionals don't take the time to ensure that they'll perform well and scale effectively. The Art of Application Performance Testing explains the complete life cycle of the testing process, and demonstrates best practices to help you plan, gain approval for, coordinate, and conduct performance tests on your applications. With this book, you'll learn to: Set realistic performance testing goals Implement an effective application performance testing strategy Interpret performance test results Cope with different application technologies and architectures Use automated performance testing tools Test traditional local applications, web-based applications, and web services (SOAs) Recognize and resolves issues that are often overlooked in performance tests Written by a consultant with 30 years of experience in the IT industry and over 12 years experience with performance testing, this easy-to-read book is illustrated with real-world examples and packed with practical advice. The Art of Application Performance Testing thoroughly explains the pitfalls of an inadequate testing strategy and offers you a robust, structured approach for ensuring that your applications perform well and scale effectively when the need arises. "Ian has maintained a vendor-agnostic methodology beautifully in this material. The metrics and graphs, along with background information provided in his case studies, eloquently convey to the reader, 'Methodology above all, tools at your discretion...' Ian's expertise shines through throughout the entire reading experience."-- Matt St. Onge, Enterprise Solution Architect, HCL Technologies America / Teradyne

MODERN WEB TESTING WITH TESTCAFE

GET TO GRIPS WITH END-TO-END WEB TESTING WITH TESTCAFE AND JAVASCRIPT

Packt Publishing Ltd A no-nonsense guide to getting started with TestCafe quickly by building a complete test suite while learning the core concepts of test automation with TestCafe Key FeaturesBuild a proof-of-concept project to demonstrate your familiarity with TestCafeDiscover useful tips and best practices for building production-ready and fault-tolerant testsWrite clean and maintainable tests by refactoring your codebase using PageObject patternBook Description TestCafe is an open source end-to-end testing framework that combines unmatched ease of use with advanced automation and robust built-in stability mechanisms. This book is a comprehensive, project-based introduction to TestCafe that will show you how to use the TestCafe framework and enable you to write fast and reliable tests; plus you'll have a proof of concept ready to demonstrate the practical potential of TestCafe. You'll begin by learning how to write end-to-end web tests using the TestCafe syntax and features of the TestCafe framework. You'll then go from setting up the environment all the way through to writing production-ready tests. You'll also find out how to build a sample set of tests in a step-by-step manner and use TestCafe to log in to the website, verify the elements present on different pages, create/delete entities, and run custom JavaScript code. As you advance, you'll delve into several stages of refactoring that will take you through the showcase setup/teardown and PageObject patterns. While this test suite is relatively simple to build, it showcases some of the most prominent features of TestCafe. Finally, this TestCafe book will show you how the tests can be run on a free and simple-to-use website, without requiring you to build and deploy your own servers or backend services. By the end of this book, you'll have learned how to write and enhance end-to-end tests with TestCafe to solve real-world problems and deliver results. What you will learnUnderstand the basic concepts of TestCafe and how it differs from classic SeleniumFind out how to set up a TestCafe test environmentRun TestCafe with command-line settingsVerify and execute TestCafe code in the browserAutomate end-to-end testing with TestCafe using expert techniquesDiscover best practices in TestCafe development and learn about the future roadmap of TestCafeWho this book is for The book is for QA professionals, test engineers, software engineers, and test automation enthusiasts looking for hands-on guidance on learning about TestCafe. This book is also great for full-stack developers who want to learn more about new tools for testing their code. The book assumes a basic understanding of JavaScript, Node.js, HTML, CSS, and some simple Bash commands.

ADVANCED COMPUTING

FIRST INTERNATIONAL CONFERENCE ON COMPUTER SCIENCE AND INFORMATION TECHNOLOGY, CCSIT 2011, BANGALORE, INDIA, JANUARY 2-4, 2011. PROCEEDINGS

Springer Science & Business Media This volume constitutes the third of three parts of the refereed proceedings of the First International Conference on Computer Science and Information Technology, CCSIT 2010, held in Bangalore, India, in January 2011. The 46 revised full papers presented in this volume were carefully reviewed and selected. The papers are organized in topical sections on soft computing, such as AI, Neural Networks, Fuzzy Systems, etc.; distributed and parallel systems and algorithms; security and information assurance; ad hoc and ubiquitous computing; wireless ad hoc networks and sensor networks.

TESTING OF WEB SERVICES

FROM ACTIVE TO PASSIVE

LAP Lambert Academic Publishing Over the last few years, the Service Oriented Architecture (SOA) is the latest approach to building, integrating and maintaining complex enterprise software systems. Web services are the applications-based to build these SOA applications. The Quality Of these Web Services (QoS) e cts to the quality of application, and test is a method to assess the QoS. This book, therefore, provides the models, the methods and the tools to test a web service, including unit, integration and passive testing. Moreover, it also analyzes many approaches and tools of software testing. This book should help for professionals in Web services testing, and should be especially useful to experts, students in testing of software, systems or communication protocols.

THE ART OF APPLICATION PERFORMANCE TESTING

HELP FOR PROGRAMMERS AND QUALITY ASSURANCE

"**O'Reilly Media, Inc.**" This practical book provides a step-by-step approach to testing mission-critical applications for scalability and performance before they're deployed -- a vital topic to which other books devote one chapter, if that. Businesses today live and die by network applications and web services. Because of the increasing complexity of these programs, and the pressure to deploy them quickly, many professionals don't take the time to ensure that they'll perform well and scale effectively. The Art of Application Performance Testing explains the complete life cycle of the testing process, and demonstrates best practices to help you plan, gain approval for, coordinate, and conduct performance tests on your applications. With this book, you'll learn to: Set realistic performance testing goals Implement an effective application performance testing strategy Interpret performance test results Cope with different application technologies and architectures Use automated performance testing tools Test traditional local applications, web-based applications, and web services (SOAs) Recognize and resolves issues that are often overlooked in performance tests Written by a consultant with 30 years of experience in the IT industry and over 12 years experience with performance testing, this easy-to-read book is illustrated with real-world examples and packed with practical advice. The Art of Application Performance Testing thoroughly explains the pitfalls of an inadequate testing strategy and offers you a robust, structured approach for ensuring that your applications perform well and scale effectively when the need arises. "Ian has maintained a vendor-agnostic methodology beautifully in this material. The metrics and graphs, along with background information provided in his case studies, eloquently convey to the reader, 'Methodology above all, tools at your discretion...' Ian's expertise shines through throughout the entire reading experience."-- Matt St. Onge, Enterprise Solution Architect, HCL Technologies America / Teradyne

THE ART OF APPLICATION PERFORMANCE TESTING

FROM STRATEGY TO TOOLS

"**O'Reilly Media, Inc.**" Because performance is paramount today, this thoroughly updated guide shows you how to test mission-critical applications for scalability and performance before you deploy them—whether it's to the cloud or a mobile device. You'll learn the complete testing process lifecycle step-by-step, along with best practices to plan, coordinate, and conduct performance tests on your applications. Set realistic performance testing goals Implement an effective application performance testing strategy Interpret performance test results Cope with different application technologies and architectures Understand the importance of End User Monitoring (EUM) Use automated performance testing tools Test traditional local applications, web applications, and web services Recognize and resolves issues often overlooked in performance tests Written by a consultant with over 15 years' experience with performance testing, The Art of Application Performance Testing thoroughly explains the pitfalls of an inadequate testing strategy and offers a robust, structured approach for ensuring that your applications perform well and scale effectively when the need arises.

SOFTWARE APPLICATIONS: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global Includes articles in topic areas such as autonomic computing, operating system architectures, and open source software technologies and applications.

WEB PENETRATION TESTING WITH KALI LINUX

Packt Publishing Ltd Web Penetration Testing with Kali Linux contains various penetration testing methods using BackTrack that will be used by the reader. It contains clear step-by-step instructions with lot of screenshots. It is written in an easy to understand language which will further simplify the understanding for the user. "Web Penetration Testing with Kali Linux" is ideal for anyone who is interested in learning how to become a penetration tester. It will also help the users who are new to Kali Linux and want to learn the features and differences in Kali versus Backtrack, and seasoned penetration testers who may need a refresher or reference on new tools and techniques. Basic familiarity with web-based programming languages such as PHP, JavaScript and MySQL will also prove helpful.

HANDS-ON APPLICATION PENETRATION TESTING WITH BURP SUITE

USE BURP SUITE AND ITS FEATURES TO INSPECT, DETECT, AND EXPLOIT SECURITY VULNERABILITIES IN YOUR WEB APPLICATIONS

Packt Publishing Ltd Test, fuzz, and break web applications and services using Burp Suite's powerful capabilities Key Features Master the skills to perform various types of security tests on your web applications Get hands-on experience working with components like scanner, proxy, intruder and much more Discover the best-way to penetrate and test web applications Book Description Burp suite is a set of graphic tools focused towards penetration testing of web applications. Burp suite is widely used for web penetration testing by many security professionals for performing different web-level security tasks. The book starts by setting up the environment to begin an application penetration test. You will be able to configure the client and apply target whitelisting. You will also learn to setup and configure Android and IOS devices to work with Burp Suite. The book will explain how various features of Burp Suite can be used to detect various vulnerabilities as part of an application penetration test. Once detection is completed and the vulnerability is confirmed, you will be able to exploit a detected vulnerability using Burp Suite. The book will also covers advanced concepts like writing extensions and macros for Burp suite. Finally, you will discover various steps that are taken to identify the target, discover weaknesses in the authentication mechanism, and finally break the authentication implementation to gain access to the administrative console of the application. By the end of this book, you will be able to effectively perform end-to-end penetration testing with Burp Suite. What you will learn Set up Burp Suite and its configurations for an application penetration test Proxy application traffic from browsers and mobile devices to the server Discover and identify application security issues in various scenarios Exploit discovered vulnerabilities to execute commands Exploit discovered vulnerabilities to gain access to data in various data stores Write your own Burp Suite plugin and explore the Infiltrator module Write macros to automate tasks in Burp Suite Who this book is for If you are interested in learning how to test web applications and the web part of mobile applications using Burp, then this is the book for you. It is specifically designed to meet your needs if you have basic experience in using Burp and are now aiming to become a professional Burp user.

PERFORMANCE TESTING GUIDANCE FOR WEB APPLICATIONS

This reference provides an end-to-end approach for implementing performance testing. (Computer Books)

HANDS-ON RESTFUL WEB SERVICES WITH ASP.NET CORE 3

DESIGN PRODUCTION-READY, TESTABLE, AND FLEXIBLE RESTFUL APIS FOR WEB APPLICATIONS AND MICROSERVICES

Packt Publishing Ltd Get up to speed with the latest features of C# 8, ASP.NET Core 3 and .NET Core 3.1 LTS to create robust and maintainable web services Key Features Apply design patterns and techniques to achieve a reactive, scalable web service Document your web services using the OpenAPI standard and test them using Postman Explore mechanisms to implement a secure web service using client-side SSL and token authentication Book Description In recent times, web services have evolved to play a prominent role in web development. Applications are now designed to be compatible with any device and platform, and web services help us keep their logic and UI separate. Given its simplicity and effectiveness in creating web services, the RESTful approach has gained popularity, and this book will help you build RESTful web services using ASP.NET Core. This REST book begins by introducing you to the basics of the REST philosophy, where you'll study the different stages of designing and implementing enterprise-grade RESTful web services. You'll also gain a thorough understanding of ASP.NET Core's middleware approach and learn how to customize it. The book will later guide you through improving API resilience, securing your service, and applying different design patterns and techniques to achieve a scalable web service. In addition to this, you'll learn advanced techniques for caching, monitoring, and logging, along with implementing unit and integration testing strategies. In later chapters, you will deploy your REST web services on Azure and document APIs using Swagger and external tools such as Postman. By the end of this book, you will have learned how to design RESTful web services confidently using ASP.NET Core with a focus on code testability and maintainability. What you will learn Gain a comprehensive working knowledge of ASP.NET Core Integrate third-party tools and frameworks to build maintainable and efficient services Implement patterns using dependency injection to reduce boilerplate code and improve flexibility Use ASP.NET Core's out-of-the-box tools to test your applications Use Docker to run your ASP.NET Core web service in an isolated and self-contained environment Secure your information using HTTPS and token-based authentication Integrate multiple web services using resiliency patterns and messaging techniques Who this book is for This book is for anyone who wants to learn how to build RESTful web services with the ASP.NET Core framework to improve the scalability and performance of their applications. Basic knowledge of C# and .NET Core will help you make the best use of the code samples included in the book.

SERVICE AVAILABILITY

THIRD INTERNATIONAL SERVICE AVAILABILITY SYMPOSIUM, ISAS 2006, HELSINKI, FINLAND, MAY 15-16, 2006, REVISED SELECTED PAPERS

Springer Science & Business Media This book constitutes the thoroughly refereed post-proceedings of the Third International Service Availability Symposium, ISAS 2006, held in Helsinki, Finland, in May 2006. The 19 revised full papers presented were carefully reviewed and selected from 38 submissions. The papers are organized in topical sections on availability modeling, estimation and analysis, dependability techniques and their applications, performability: measurements and assessments, service availability standards: experience reports and futures.

GO WEB PROGRAMMING

Simon and Schuster Summary Go Web Programming teaches you how to build scalable, high-performance web applications in Go using modern design principles. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology The Go language handles the demands of scalable, high-performance web applications by providing clean and fast compiled code, garbage collection, a simple concurrency model, and a fantastic standard library. It's perfect for writing microservices or building scalable, maintainable systems. About the Book Go Web Programming teaches you how to build web applications in Go using modern design principles. You'll learn how to implement the dependency injection design pattern for writing test doubles, use concurrency in web applications, and create and consume JSON and XML in web services. Along the way, you'll discover how to minimize your dependence on external frameworks, and you'll pick up valuable productivity techniques for testing and deploying your applications. What's Inside Basics Testing and benchmarking Using concurrency Deploying to standalone servers, PaaS, and Docker Dozens of tips, tricks, and techniques About the Reader This book assumes you're familiar with Go language basics and the general concepts of web development. About the Author Sau Sheong Chang is Managing Director of Digital Technology at Singapore Power and an active contributor to the Ruby and Go communities. Table of Contents PART 1 GO AND WEB APPLICATIONS Go and web applications Go Chat Chat PART 2 BASIC WEB APPLICATIONS Handling requests Processing requests Displaying content Storing data PART 3 BEING REAL Go web services Testing your application Leveraging Go concurrency Deploying Go

BUILDING WEB APPLICATIONS WITH ADO.NET AND XML WEB SERVICES

John Wiley & Sons

SECURITY TESTING HANDBOOK FOR BANKING APPLICATIONS

IT Governance Ltd Security Testing Handbook for Banking Applications is a specialised guide to testing a wide range of banking applications. The book is intended as a companion to security professionals, software developers and QA professionals who work with banking applications.

PENETRATION TESTER'S OPEN SOURCE TOOLKIT

Elsevier Penetration Tester's Open Source Toolkit, Third Edition, discusses the open source tools available to penetration testers, the ways to use them, and the situations in which they apply. Great commercial penetration testing tools can be very expensive and sometimes hard to use or of questionable accuracy. This book helps solve both of these problems. The open source, no-cost penetration testing tools presented do a great job and can be modified by the student for each situation. This edition offers instruction on how and in which situations the penetration tester can best use them. Real-life scenarios support and expand upon explanations throughout. It also presents core technologies for each type of testing and the best tools for the job. The book consists of 10 chapters that covers a wide range of topics such as reconnaissance; scanning and enumeration; client-side attacks and human weaknesses; hacking database services; Web server and Web application testing; enterprise application testing; wireless penetrating testing; and building penetration test labs. The chapters also include case studies where the tools that are discussed are applied. New to this edition: enterprise application testing, client-side attacks and updates on Metasploit and Backtrack. This book is for people who are interested in penetration testing or professionals engaged in penetration testing. Those working in the areas of database, network, system, or application administration, as well as architects, can gain insights into how penetration testers perform testing in their specific areas of expertise and learn what to expect from a penetration test. This book can also serve as a reference for security or audit professionals. Details current open source penetration testing tools Presents core technologies for each type of testing and the best tools for the job New to this edition: Enterprise application testing, client-side attacks and updates on Metasploit and Backtrack

THE BOOK OF VISUAL BASIC 2005

NET INSIGHT FOR CLASSIC VB DEVELOPERS

No Starch Press From the author of the highly acclaimed Book of VB .NET comes this comprehensive introduction to Visual Basic 2005, the newest version of Microsoft's popular programming language. If you're a developer who is new to the language, you will learn to use VB 2005 effectively. If you're from the old school of VB but haven't yet made the jump to .NET, you will be able to make the transition seamlessly. And you won't have to wade through boring, unnecessary material before you get there. This guide covers all the necessities, ditching jargon and getting right to the substance of how to: * Implement object-oriented programming with classes, interfaces, and inheritance * Design well-behaved multithreaded applications * Work with XML, file streams, and ADO.NET, the .NET toolkit for relational databases * Build code-driven web pages and rich Windows applications * Deploy your applications with snazzy setup programs Conversational in tone and eminently readable, this book tackles VB 2005's hot new features and explains how to work with .NET, but it doesn't water the information down for beginners. After a brief overview of changes from VB 6, you'll get real-world examples in each chapter that will get you up to speed and ready to perform in the VB 2005 environment. Helpful code examples, references to additional online material, and tips on planning, design, and architecture round out The Book of Visual Basic 2005. Professional developers who need to master VB 2005 will want this book by their side.

WORKSHOP ON TESTING, ANALYSIS, AND VERIFICATION OF WEB SERVICES AND APPLICATIONS (TAV-WEB 2006)

WEB APPLICATION SECURITY

IBERIC WEB APPLICATION SECURITY CONFERENCE, IBWAS 2009, MADRID, SPAIN, DECEMBER 10-11, 2009. REVISED SELECTED PAPERS

Springer Science & Business Media IBWAS 2009, the Iberic Conference on Web Applications Security, was the first international conference organized by both the OWASP Portuguese and Spanish chapters in order to join the international Web application security academic and industry communities to present and discuss the major aspects of Web applications security. There is currently a change in the information systems development paradigm. The emergence of Web 2.0 technologies led to the extensive deployment and use of W-based applications and Web services as a way to develop new and flexible information systems. Such systems are easy to develop, deploy and maintain and they demonstrate impressive features for users, resulting in their current wide use. The "social" features of these technologies create the necessary "massification" effects that make millions of users share their own personal information and content over large web-based interactive platforms. Corporations, businesses and governments all over the world are also developing and deploying more and more applications to interact with their businesses, customers, suppliers and citizens to enable stronger and tighter relations with all of them. Moreover, legacy non-Web systems are being ported to this new intrinsically connected environment. IBWAS 2009 brought together application security experts, researchers, educators and practitioners from industry, academia and international communities such as OWASP, in order to discuss open problems and new solutions in application security. In the context of this track, academic researchers were able to combine interesting results with the experience of practitioners and software engineers.

COMPUTER SCIENCE AND ITS APPLICATIONS

CSA 2012

Springer Science & Business Media The 4th FTRA International Conference on Computer Science and its Applications (CSA-12) will be held in Jeju, Korea on November 22–25, 2012. CSA-12 will be the most comprehensive conference focused on the various aspects of advances in computer science and its applications. CSA-12 will provide an opportunity for academic and industry professionals to discuss the latest issues and progress in the area of CSA. In addition, the conference will publish high quality papers which are closely related to the various theories and practical applications in CSA. Furthermore, we expect that the conference and its publications will be a trigger for further related research and technology improvements in this important subject. CSA-12 is the next event in a series of highly successful International Conference on Computer Science and its Applications, previously held as CSA-11 (3rd Edition: Jeju, December, 2011), CSA-09 (2nd Edition: Jeju, December, 2009), and CSA-08 (1st Edition: Australia, October, 2008).

LUMEN PROGRAMMING GUIDE

WRITING PHP MICROSERVICES, REST AND WEB SERVICE APIS

Apress Learn to write test-driven microservices, REST APIs, and web service APIs with PHP using the Lumen micro-framework, from the now popular Laravel family. This book shows you how testing APIs can help you write bullet-proof web application services and microservices. In the Lumen Programming Guide you will learn how to use Lumen—a micro-framework by Laravel—to write bullet-proof APIs. Lumen helps you write productive, maintainable APIs using modern application design. You will learn how to write fully-tested APIs and understand essential Lumen concepts used to build a solid foundation for writing API projects. What You Will Learn Maintain your API's database structure through built-in database migrations Write tests with factory data in a test database Respond with consistent data output in JSON Deal with PHP exceptions by using JSON responses Create, read, update, and delete REST resources Represent model associations in API responses Build a solid foundation for writing tests with PHPUnit and Mockery Validate data Who This Book Is For PHP developers with no Laravel experience. Only a basic understanding of HTTP and writing PHP applications is needed to get started.

SOFTWARE TESTING IN THE CLOUD: PERSPECTIVES ON AN EMERGING DISCIPLINE

PERSPECTIVES ON AN EMERGING DISCIPLINE

IGI Global In recent years, cloud computing has gained a significant amount of attention by providing more flexible ways to store applications remotely. With software testing continuing to be an important part of the software engineering life cycle, the emergence of software testing in the cloud has the potential to change the way software testing is performed. Software Testing in the Cloud: Perspectives on an Emerging Discipline is a comprehensive collection of research by leading experts in the field providing an overview of cloud computing and current issues in software testing and system migration. Deserving the attention of researchers, practitioners, and managers, this book aims to raise awareness about this new field of study.

TEST AND ANALYSIS OF WEB SERVICES

Springer The authors have here put together the first reference on all aspects of testing and validating service-oriented architectures. With contributions by leading academic and industrial research groups it offers detailed guidelines for the actual validation process. Readers will find a comprehensive survey of state-of-the-art approaches as well as techniques and tools to improve the quality of service-oriented applications. It also includes references and scenarios for future research and development.

THE OFFICIAL DVSA THEORY TEST FOR CAR DRIVERS

This publication is the official theory test book for car drivers, compiled by the Driver and Vehicle Standards Agency. It contains multiple choice questions from the whole theory test question bank, with answers and explanations, dealing with topics such as: alertness and attitude, vehicle safety and handling, safety margins, hazard awareness, vulnerable road users, motorway rules and rules of the road, road and traffic signs, documents, accidents, and vehicle loading.

INFOWORLD

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

INNOVATIONS AND ADVANCES IN COMPUTER SCIENCES AND ENGINEERING

Springer Science & Business Media Innovations and Advances in Computer Sciences and Engineering includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computer Science, Software Engineering, Computer Engineering, and Systems Engineering and Sciences. Innovations and Advances in Computer Sciences and Engineering includes selected papers from the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2008) which was part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2008).

UML-BASED SOFTWARE TESTING DESIGN FOR OBJECT-ORIENTED AND WEB SERVICE SOFTWARE SYSTEM

Software testing is an essential phase in software development, which is the primary way to evaluate software under development. With rapidly growing user needs and the complex design of software application, software testing needs more efficient and effective ways to assure the reliability and quality of software. The supporting technology for software testing has been widely studied, and Unified Modeling Language (UML) is one of the technologies which can be powerfully applied in software testing. UML is a practical standard for design and visualization of complex software systems. It is not only helpful for the software designers and developers but also for the software testers. Object-oriented programming and Web Services are the most popular technologies of software development for Object-Oriented systems and web application. However, there are several testing issues unique to Object-Oriented software and Web Services. The characteristics of Object-Oriented language increase the complexity of relationships in software components and introduce new kinds of faults raising issues in software testing. In Service-Oriented Architecture (SOA), the enterprises take advantage of the dynamic discovery and invocation capabilities of Web Services to build loosely coupled Service-Oriented applications. The complex applications can be obtained by discovering and composing existing services, but it also arises many testing issues by the simplistic approach of Web Services. In this dissertation, a framework of UML-based software testing design is proposed to model the Object-Oriented software system and Service-Oriented software for more effective and efficient software testing. The framework consists of three main components; test model generation, test case generation, and testing execution. First, the test model generation uses UML diagrams to create test models for Object-Oriented software systems and Service-Oriented software separately. Second, a test case generation approach that includes defined coverage criteria and generation of the test path and test data according to the test model is introduced. For the test path generation, we proposed an algorithm to automatically generate the paths according to different coverage criteria. Third, the mutation testing and different mutant operators are used for testing execution to verify the proposed test model.

INTEGRATED APPROACHES IN INFORMATION TECHNOLOGY AND WEB ENGINEERING: ADVANCING ORGANIZATIONAL KNOWLEDGE SHARING

ADVANCING ORGANIZATIONAL KNOWLEDGE SHARING

IGI Global Provides a collection of authoritative articles from distinguished international researchers in information technology and Web engineering.

SOFTWARE ENGINEERING

INTERNATIONAL SUMMER SCHOOLS, ISSSE 2006-2008, SALERNO, ITALY, REVISED TUTORIAL LECTURES

Springer Software engineering is widely recognized as one of the most exciting, stimulating, and profitable research areas, with a significant practical impact on the software industry. Thus, training future generations of software engineering researchers and bridging the gap between academia and industry are vital to the field. The International Summer School on Software Engineering (ISSSE), which started in 2003, aims to contribute both to training future researchers and to facilitating the exchange of knowledge between academia and industry. This volume constitutes a collection of articles originating from tutorial lectures given during the last three ISSSE summer schools, as well as a number of contributions on some of the latest findings in the field of software engineering. The book is organized in three parts on software requirements and design; software testing and reverse engineering; and management.

NODE.JS WEB DEVELOPMENT

SERVER-SIDE WEB DEVELOPMENT MADE EASY WITH NODE 14 USING PRACTICAL EXAMPLES

Packt Publishing Ltd Build scalable web applications using Node.js, Express.js, and the latest ECMAScript techniques, along with deploying applications with AWS and Docker with this updated fifth edition Key Features • Learn backend web programming with the JavaScript stack • Explore best practices, right from configuring and building web servers to deploying them on a production cloud hosting system: AWS using Docker and Terraform • Work through the different stages of developing robust and scalable apps using Node.js 14 Book Description Node.js is the leading choice of server-side web development platform, enabling developers to use the same tools and paradigms for both server-side and client-side software. This updated fifth edition of Node.js Web Development focuses on the new features of Node.js 14, Express 4.x, and ECMAScript, taking you through modern concepts, techniques, and best practices for using Node.js. The book starts by helping you get to grips with the concepts of building server-side web apps with Node.js. You'll learn how to develop a complete Node.js web app, with a backend database tier to help you explore several databases. You'll deploy the app to real web servers, including a cloud hosting platform built on AWS EC2 using Terraform and Docker Swarm, while integrating other tools such as Redis and NGINX. As you advance, you'll learn about unit and functional testing, along with deploying test infrastructure using Docker. Finally, you'll discover how to harden Node.js app security, use Let's Encrypt to provision the HTTPS service, and implement several forms of app security with the help of expert practices. With each chapter, the book will help you put your knowledge into practice throughout the entire life cycle of developing a web app. By the end of this Node.js book, you'll have gained practical Node.js web development knowledge and be able to build and deploy your own apps on a public web hosting solution. What you will learn • Install and use Node.js 14 and Express 4.17 for both web development and deployment • Implement RESTful web services using the Restify framework • Develop, test, and deploy microservices using Docker, Docker Swarm, and Node.js, on AWS EC2 using Terraform • Get up to speed with using data storage engines such as MySQL, SQLite3, and MongoDB • Test your web applications using unit testing with Mocha, and headless browser testing with Puppeteer • Implement HTTPS using Let's Encrypt and enhance application security with Helmet Who this book is for If you're looking for an alternative to the 'P' languages (Perl, PHP, and Python), or if you want to get started with server-side web development with JavaScript programming, or if you want a deep dive into deploying services to cloud hosting, this Node.js book is for you. A rudimentary understanding of JavaScript and web application development is a must before you get started with this book. Table of Contents • About Node.js • Setting Up Node.js • Exploring Node.js Modules • HTTP Servers and Clients • Your First Express Application • Implementing the Mobile-First Paradigm • Data Storage and Retrieval • Authenticating Users with a Microservice • Dynamic Client/Server Interaction with Socket.IO • Deploying Node.js Applications to Linux Servers • Deploying Node.js microservices with Docker • Deploying a Docker Swarm to AWS EC2 with Terraform • Unit Testing and Functional Testing • Security in Node.js Applications

THE TESTING NETWORK

AN INTEGRAL APPROACH TO TEST ACTIVITIES IN LARGE SOFTWARE PROJECTS

Springer Science & Business Media "The Testing Network" presents an integrated approach to testing based on cutting-edge methodologies, processes and tools in today's IT context. It means complex network-centric applications to be tested in heterogeneous IT infrastructures and in multiple test environments (also geographically distributed). The added-value of this book is the in-depth explanation of all processes and relevant methodologies and tools to address this complexity. Main aspects of testing are explained using TD/QC - the world-leader test platform. This up-to-date know-how is based on real-life IT experiences gained in large-scale projects of companies operating worldwide. The book is abundantly illustrated to better show all technical aspects of modern testing in a national and international context. The author has a deep expertise by designing and giving testing training in large companies using the above-mentioned tools and processes. "The Testing Network" is a unique synthesis of core test topics applied in real-life.

JAVA EE 8 DEVELOPMENT WITH ECLIPSE

DEVELOP, TEST, AND TROUBLESHOOT JAVA ENTERPRISE APPLICATIONS RAPIDLY WITH ECLIPSE, 3RD EDITION

Packt Publishing Ltd Develop and deploy fully functional applications and microservices utilising Tomcat, Glassfish servers, Cloud and docker in Java EE 8 Key Features Explore the complete workflow of developing enterprise Java applications Develop microservices with Docker Container and deploy it in cloud Simplify Java EE application development Book Description Java EE is one of the most popular tools for enterprise application design and development. With recent changes to Java EE 8 specifications, Java EE application development has become a lot simpler with the new specifications, some of which compete with the existing specifications. This guide provides a complete overview of developing highly performant, robust and secure enterprise applications with Java EE with Eclipse. The book begins by exploring different Java EE technologies and how to use them (JSP, JSF, JPA, JDBC, EJB, and more), along with suitable technologies for different scenarios. You will learn how to set up the development environment for Java EE applications and understand Java EE specifications in detail, with an emphasis on examples. The book takes you through deployment of an application in Tomcat, GlassFish Servers, and also in the cloud. It goes beyond the basics and covers topics like debugging, testing, deployment, and securing your Java EE applications. You'll also get to know techniques to develop cloud-ready microservices in Java EE. What you will learn Set up Eclipse, Tomcat, and Glassfish servers for Java EE application development Use JSP, Servlet, JSF, and EJBs to create a user interface and write business logic Create Java EE database applications using JDBC and JPA Handle asynchronous messages using MDBs for better scalability Deploy and debug Java EE applications and create SOAP and REST web services Write unit tests and calculate code coverage Use Eclipse MAT (Memory Analysis Tool) to debug memory issues Create and deploy microservices Who this book is for If you are a Java developer with little or no experience in Java EE application development, or if you have experience in Java EE technology but are looking for tips to simplify and accelerate your development process, then this book is for you.

WEB BLOOPERS

60 COMMON WEB DESIGN MISTAKES, AND HOW TO AVOID THEM

Morgan Kaufmann The dot.com crash of 2000 was a wake-up call, and told us that the Web has far to go before achieving the acceptance predicted for it in '95. A large part of what is missing is quality: a primary component of the missing quality is usability. The Web is not nearly as easy to use as it needs to be for the average person to rely on it for everyday information, commerce, and entertainment. In response to strong feedback from readers of GUI BLOOPERS calling for a book devoted exclusively to Web design bloopers, Jeff Johnson calls attention to the most frequently occurring and annoying design bloopers from real web sites he has worked on or researched. Not just a critique of these bloopers and their sites, this book shows how to correct or avoid the blooper and gives a detailed analysis of each design problem. Hear Jeff Johnson's interview podcast on software and website usability at the University of Canterbury (25 min.) Discusses in detail 60 of the most common and critical web design mistakes, along with the solutions, challenges, and tradeoffs associated with them. Covers important subject areas such as: content, task-support, navigation, forms, searches, writing, link appearance, and graphic design and layout. Organized and formatted based on the results of its own usability test performed by web designers themselves. Features its own web site (www.web-bloopers.com)with new and emerging web design no-no's (because new bloopers are born every day) along with a much requested printable blooper checklist for web designers and developers to use.

COLLABORATIVE AND DISTRIBUTED E-RESEARCH: INNOVATIONS IN TECHNOLOGIES, STRATEGIES AND APPLICATIONS

INNOVATIONS IN TECHNOLOGIES, STRATEGIES AND APPLICATIONS

IGI Global "This book offers insight into practical and methodological issues related to collaborative e-research and furthers readers understanding of current and future trends in online research and the types of technologies involved"--Provided by publisher.