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Effortlessly ensure your application's code quality from day 1 About This Book Customize your Moodle 3.x app. Leverage the new features of Moodle 3.x by diving deep into the Moodle development eco-system. Cater to heavy user traffic, customize learning requirements and create custom third party plugins. Who This Book Is For This book is for Moodle developers who are familiar with the basic Moodle functionality and have an understanding of the types of scenarios in which the Moodle platform can be usefully employed. You must have medium-level PHP programming knowledge. You should be familiar with HTML and XML protocols. You do not need to have prior knowledge of Moodle-specific terminology What You Will Learn Work with the different types of custom modules that can be written for Moodle 3.x Understand how to author custom modules so they conform to the agreed Moodle 3.x development guidelines Get familiar with the Moodle 3.x architecturelits internal and external APIs Customize Moodle 3.x so it can integrate seamlessly with third-party applications of any kind Build a new course format to specify the layout of a course Implement third-party graphics libraries in your plugins Build plugins that can be themed easily Provide custom APIs that will provide the means to automate Moodle 3 in real time In Detail The new and revamped Moodle is the top choice for developers to create cutting edge e-learning apps that cater to different user's segments and are visually appealing as well. This book explains how the Moodle 3.x platform provides a framework that allows developers to create a customized e-learning solution. It begins with an exploration of the different types of plugin.. We then continue with an investigation of creating new courses. You will create a custom plugin that pulls in resources from a third-party repository. Then you'll learn how users can be assigned to courses and granted the necessary

permissions. Furthermore, you will develop a custom user home. At the end of the book, we'll discuss the Web Services API to fully automate Moodle 3.x in real time. Style and approach This book takes a step-by-step practical approach with every step explained in great detail using practical examples. You will create custom plugins from scratch with the examples shown and create new modules as well as extensions with the examples presented. Discover what it means to be an expert developer by exploring the latest features available to you in Alfresco One 5.x About This Book Create reliable and secure enterprise apps with the latest Alfresco One 5.x platform Explore all the latest Alfresco One 5.x APIs such as the CMIS API, Alfresco One API, and the integrated RESTful API to get more out of your enterprise apps Unleash the power of the latest JavaScript engine and the JavaScript API for Alfresco to customize your existing apps for the Alfresco 5 platform Who This Book Is For If you're an enterprise app developer who wants to create custom applications with Alfresco, then this book is for you. Previous knowledge with Alfresco would be helpful but is not necessary. What You Will Learn Create and manage a custom content model Configure the Alfresco Share user interface Build a new AngularJS 2.0 application Create business process definitions using Activiti Designer Discover the most common extensions provided by Alfresco Configure Alfresco to authenticate against LDAP, including & chaining" LDAP with Alfresco authentication Get familiar with the latest features of Alfresco Mobile SDK, Smart Search, and the new Angular framework In Detail Do you want to create more reliable and secure solutions for enterprise apps? Alfresco One 5.x is your gateway to developing the best industry-standard enterprise apps and this book will help you to become a pro with Alfresco One 5.x development. This book will help you create a complete fully featured app for your organization and while you create that perfect app, you will explore and implement the new and intriguing features of Alfresco. The book starts with an introduction to the Alfresco platform and you'll see how to configure and customize it. You will learn how to work with the content in a content management system and how you can extend it to your own use case. Next, you will find out how to work with Alfresco Share, an all-purpose user interface for general document management, and customize it. Moving on, you write web scripts that create, read, and delete data in the back-end repository. Further on from that, you'll work with a set of tools that Alfresco provides; to generate a basic AngularJS application supporting use cases, to name a few authentication, document list, document view. Finally, you'll learn how to develop your own Alfresco Mobile app and understand how Smart Folders and Search manager work. By the end of the book, you'll know how to configure Alfresco to authenticate against LDAP, be able to set up Single Sign-On (SSO), and work with Alfresco's security services. Style and approach This book takes a step-by-step practical tutorial-style approach helping you create a complete enterprise app using Alfresco. "JBuilder Developer's Guide" provides comprehensive coverage of JBuilder from the practitioner's viewpoint. The authors develop a consolidated application throughout the chapters, allowing conceptual cohesion and illustrating the use of JBuilder to build 'real-world' applications. The examples can be compiled and run under JBuilder Personal edition, a free edition of JBuilder. "JBuilder Developer's Guide" is not version specific but explains the latest JBuilder 6, 7, and 8 features such as enterprise J2EE application development, CORBA, SOAP, XML tools, Enterprise JavaBeans, JavaServer Pages/Servlets, and JavaBeans technology. JBuilder repeatedly wins

"developer's choice" awards as the best visual tool for developing Java applications. The European Molecular Biology Open Software Suite (EMBOSS) is a well established, high quality package of open source software tools for molecular biology. It includes over 200 applications for molecular sequence analysis and general bioinformatics including sequence alignment, rapid database searching and sequence retrieval, motif identification and pattern analysis and much more. The EMBOSS User's Guide is the official and definitive guide to the package, containing comprehensive information and practical instructions from the people who developed it: □ No prior experience with EMBOSS necessary □ Set up and maintenance - get up and running quickly □ Hands-on tutorial - learn EMBOSS the easy way, by working through practical examples □ Data types and file formats - learn about the biological data that can be manipulated and analysed □ In-depth explanation of the EMBOSS command line - learn advanced 'power user' features □ Practical guides to popular EMBOSS GUIs (wEMBOSS and Jemboss)

IBM® Rational® Application Developer for WebSphere® Software v7.5 (Application Developer, for short) is the full function Eclipse 3.4 based development platform for developing Java™ Standard Edition Version 6 (Java SE 6) and Java Enterprise Edition Version 5 (Java EE 5) applications with a focus on applications to be deployed to IBM WebSphere Application Server and IBM WebSphere Portal. Rational Application Developer provides integrated development tools for all development roles, including Web developers, Java developers, business analysts, architects, and enterprise programmers. Rational Application Developer is part of the IBM Rational Software Delivery Platform (SDP), which contains products in four life cycle categories: - Architecture management, which includes integrated development environments - Change and release management - Process and portfolio management - Quality management

This IBM Redbooks™ publication is a programming guide that highlights the features and tooling included with Rational Application Developer v7.5. Many of the chapters provide working examples that demonstrate how to use the tooling to develop applications, as well as achieve the benefits of visual and rapid application development. This publication is an update of Rational Application Developer V7 Programming Guide, SG24-7501. The first guide to developing user location applications

You are walking down a street and suddenly, your cell phone display flashes the news that you are 70 feet from a Starbuck's and that you are entitled to a dollar off your next purchase. You have just witnessed an example of user location services, one of the exciting new generations of cell phone and handheld services. This book describes the architecture and operation of this technology. It also familiarizes readers with the new location services development standard, shows how to programming with GIS, provides GUI design guidelines, and uses real-world examples to teach valuable lessons on how to successfully develop and deploy user location applications for the wireless Web. CD-ROM contains a host of tools for developing positioning and location services. For all users who work with ISPF on z/OS MVS. The readers of this book will learn how to use the ISPF professionally in their daily work in z/OS to quickly reach optimal results: - Detailed description of TSO/ISPF logon processes - Use of ISPF command tables - DSLIST - Optimal use of Data Set Lists - Use of Object / Action Workplace as an optimal work surface - Detailed description on use of the ISPF editor - Utilities for allocated data sets - Secret commands usable in ISPF - Descriptions for using the downloadable SMART ISPF Utilities The author gives many useful hints and tips

based on his extensive experience working with ISPF. The applications of all the major ISPF commands are demonstrated by examples from practice. The book can be used as a teaching aid as well as a practical guide for daily work. Looks at the application design process, describing how to create user-friendly applications. Expert author John Mueller provides a complete view of Microsoft's free Web site creation program. Over 75% of network attacks are targeted at the web application layer. This book provides explicit hacks, tutorials, penetration tests, and step-by-step demonstrations for security professionals and Web application developers to defend their most vulnerable applications. This book defines Web application security, why it should be addressed earlier in the lifecycle in development and quality assurance, and how it differs from other types of Internet security. Additionally, the book examines the procedures and technologies that are essential to developing, penetration testing and releasing a secure Web application. Through a review of recent Web application breaches, the book will expose the prolific methods hackers use to execute Web attacks using common vulnerabilities such as SQL Injection, Cross-Site Scripting and Buffer Overflows in the application layer. By taking an in-depth look at the techniques hackers use to exploit Web applications, readers will be better equipped to protect confidential. The Yankee Group estimates the market for Web application-security products and services will grow to \$1.74 billion by 2007 from \$140 million in 2002

Author Michael Cross is a highly sought after speaker who regularly delivers Web Application presentations at leading conferences including: Black Hat, TechnoSecurity, CanSec West, Shmoo Con, Information Security, RSA Conferences, and more This book is a comprehensive guide to frontend web app testing. You'll develop a solid understanding of the advanced features that lead testing frameworks offer and the pillars of a successful web app testing strategy. With this book, you'll be able to devise a suitable testing strategy using both code coverage and test coverage measurements. If you have any interest in writing .NET programs using Active Directory or ADAM, this is the book you want to read. Joe Richards, Microsoft MVP, directory services Identity and Access Management are rapidly gaining importance as key areas of practice in the IT industry, and directory services provide the fundamental building blocks that enable them. For enterprise developers struggling to build directory-enabled .NET applications, The .NET Developer's Guide to Directory Services Programming will come as a welcome aid. Microsoft MVPs Joe Kaplan and Ryan Dunn have written a practical introduction to programming directory services, using both versions 1.1 and 2.0 of the .NET Framework. The extensive examples in the book are in C#; a companion Web site includes both C# and Visual Basic source code and examples. Readers will

- Learn to create, rename, update, and delete objects in Active Directory and ADAM
- Learn to bind to and search directories effectively and efficiently
- Learn to read and write attributes of all types in the directory
- Learn to use directory services within ASP.NET applications

Get concrete examples of common programming tasks such as managing Active Directory and ADAM users and groups, and performing authentication

Experienced .NET developers—those building enterprise applications or simply interested in learning about directory services—will find that The .NET Developer's Guide to Directory Services Programming unravels the complexities and helps them to avoid the common pitfalls that developers face. Build smarter and efficient database application systems for your organization with SQL Server 2017 Key Features Build database applications by using the

development features of SQL Server 2017 Work with temporal tables to get information stored in a table at any time Use adaptive querying to enhance the performance of your queries Book Description Microsoft SQL Server 2017 is the next big step in the data platform history of Microsoft as it brings in the power of R and Python for machine learning and containerization-based deployment on Windows and Linux. Compared to its predecessor, SQL Server 2017 has evolved into Machine Learning with R services for statistical analysis and Python packages for analytical processing. This book prepares you for more advanced topics by starting with a quick introduction to SQL Server 2017's new features and a recapitulation of the possibilities you may have already explored with previous versions of SQL Server. The next part introduces you to enhancements in the Transact-SQL language and new database engine capabilities and then switches to a completely new technology inside SQL Server: JSON support. We also take a look at the Stretch database, security enhancements, and temporal tables. Furthermore, the book focuses on implementing advanced topics, including Query Store, columnstore indexes, and In-Memory OLTP. Towards the end of the book, you'll be introduced to R and how to use the R language with Transact-SQL for data exploration and analysis. You'll also learn to integrate Python code in SQL Server and graph database implementations along with deployment options on Linux and SQL Server in containers for development and testing. By the end of this book, you will have the required information to design efficient, high-performance database applications without any hassle. What you will learn Explore the new development features introduced in SQL Server 2017 Identify opportunities for In-Memory OLTP technology Use columnstore indexes to get storage and performance improvements Exchange JSON data between applications and SQL Server Use the new security features to encrypt or mask the data Control the access to the data on the row levels Discover the potential of R and Python integration Model complex relationships with the graph databases in SQL Server 2017 Who this book is for Database developers and solution architects looking to design efficient database applications using SQL Server 2017 will find this book very useful. In addition, this book will be valuable to advanced analysis practitioners and business intelligence developers. Database consultants dealing with performance tuning will get a lot of useful information from this book as well. Some basic understanding of database concepts and T-SQL is required to get the best out of this book. Mac OS X, Apple's newest operating system for the Macintosh platform, is profoundly different from its earlier versions because of its similarity to the UNIX operating system. For developers writing software for OS X this means adjusting to two new environments to create applications and to access the enhanced features of the new OS, Cocoa and Carbon. Cocoa is an object-oriented API in which all future OS X programs will be written. Carbon is a transitional technology allowing compatibility of applications written for earlier versions of the Mac OS with Mac OS X. Mac OS X Developer's Guide focuses equally on Cocoa and Carbon, guiding the reader through these technologies and showing how to write applications in both. It is the first book for Mac OS X developers written for those who are already working on applications, as well as new developers just getting started. It starts off describing the new OS and its development tools then focuses on specific programming issues, providing tips on making the transition from classic Mac OS code to Mac OS X. * A guide for developers already writing applications as well as new developers just getting started * Focuses equally on both

Cocoa and Carbon environments * Provides tips on transitioning from writing code for classic Mac OS to OS X * References Apple online materials extensively, to keep developers up to speed on changes The only book to focus on integrating Microsoft's advance scripting technologies to build n-tier applications, this advanced guide shows how to create powerful Web applications using integrated technologies, including XML, DHTML behaviors, scripting components and ASP. It also explains how to build components and increase code re-use, how to apply scripting to the new capabilities of Internet Explorer 5, and how to use Web Scripting to build and e-commerce application. In The Developer's Guide to Social Programming, Mark Hawker shows developers how to build applications that integrate with the major social networking sites. Unlike competitive books that focus on a single social media platform, this book covers all three leading platforms: Facebook, OpenSocial, and Twitter. Hawker identifies the characteristics of superior, highly engaging social media applications, and shows how to use the Facebook platform, Google Friend Connect, and the Twitter API to create them. You'll find practical solutions and code for addressing many common social programming challenges, from site registration to search, blog commenting to creating location-based applications. Hawker concludes by walking you through building a complete, integrated social application: one that works seamlessly across all leading platforms, and draws on powerful features from each. Coverage includes Working with the Twitter API, including the Search API, Lists API, and Retweets API Authenticating users with Twitter OAuth Mastering the Facebook API, FQL, and XFBML Utilizing the Facebook JavaScript Library for creating dynamic content, and animation Exploring the Google Friend Connect JavaScript API, and integrating with the OpenSocial API Using Facebook's tools for sharing, social commenting, stream publishing, and live conversation Using the PHP OpenSocial Client Library with Google Friend Connect Creating, testing, and submitting Google Friend Connect gadgets Annotation This book is designed to teach the FileMaker Pro developer about XML and XSL. Companion CD includes SQL Anywhere Studio 9 Developer Edition (for Windows), all the code from the examples and full BNF from the book in HTML format!SQL Anywhere Studio 9 Developers Guide describes in detail how to administer and program SQL Anywhere, the leading relational database for mobile, distributed, and embedded applications. This book focuses on the various tasks performed during the life cycle of a typical database, such as creating tables and other schema objects, and inserting, selecting, updating, and deleting data. Additional topics include packaging SQL code into procedures, triggers, and events; distributing data across multiple databases using MobiLink; protecting the database from disaster; and tuning for performance. Borland(r) Delphi 6 Developer's Guide is a new edition of the #1 best-selling Delphi book by authors Steve Teixeira and Xavier Pacheco. Steve and Xavier are of the winners of the Delphi Informant Reader's Choice Award for both Delphi 4 Developer's Guide and Delphi 5 Developer's Guide. Borland(r) Delphi 6 Developer's Guide is completely updated for Delphi 6 and includes in-depth coverage on Borland's new CLX architecture, DBExpress Applications, SOAP, CORBA, WebSnap and BizSnap features. It continues as a complete reference and authoritative guide to the newest version of Delphi. Over the last ten years, the ARM architecture has become one of the most pervasive architectures in the world, with more than 2 billion ARM-based processors embedded in products ranging from cell phones to automotive

braking systems. A world-wide community of ARM developers in semiconductor and product design companies includes software developers, system designers and hardware engineers. To date no book has directly addressed their need to develop the system and software for an ARM-based system. This text fills that gap. This book provides a comprehensive description of the operation of the ARM core from a developer's perspective with a clear emphasis on software. It demonstrates not only how to write efficient ARM software in C and assembly but also how to optimize code. Example code throughout the book can be integrated into commercial products or used as templates to enable quick creation of productive software. The book covers both the ARM and Thumb instruction sets, covers Intel's XScale Processors, outlines distinctions among the versions of the ARM architecture, demonstrates how to implement DSP algorithms, explains exception and interrupt handling, describes the cache technologies that surround the ARM cores as well as the most efficient memory management techniques. A final chapter looks forward to the future of the ARM architecture considering ARMv6, the latest change to the instruction set, which has been designed to improve the DSP and media processing capabilities of the architecture. * No other book describes the ARM core from a system and software perspective. * Author team combines extensive ARM software engineering experience with an in-depth knowledge of ARM developer needs. * Practical, executable code is fully explained in the book and available on the publisher's Website. * Includes a simple embedded operating system.

IBM and the rest of the computer industry are putting most of their DBMS development efforts into SQL. This reference provides the SQL/400 skills that a successful applications developer needs and shows how to create comprehensive, complex, and professional SQL/400 databases. Users of this book will be able to quickly and efficiently build I-Mode pages using any desired text editor. Following examples and instructions based on the authors' successful experiences, developers will create or convert images from other platforms, create animations and sound files, and develop dynamic database driven I-Mode applications and Web sites using common scripting languages such as Perl, PHP, and Java. They will also understand the relationship between I-Mode and other wireless technologies, and the unique business model of I-Mode. An overview of several "killer applications" that have fueled I-Mode's success will further prepare the reader to create applications that take full advantage of the features of small-screen devices.

Serpent is a user interface management system (UIMS) that supports the development and implementation of user interfaces, providing an editor to specify the user interface and a runtime system that enables communication between the application and the end user. This manual describes how to develop applications using Serpent. Readers are assumed to have read and understood the concepts described in the Serpent Overview, as well as to have had experience using the C programming language.

IBM® Rational® Application Developer for WebSphere® Software V7.0 (for short, Rational Application Developer) is the full function Eclipse 3.2 based development platform for developing Java™ 2 Platform Standard Edition (J2SETM) and Java 2 Platform Enterprise Edition (J2EETM) applications with a focus on applications to be deployed to IBM WebSphere Application Server and IBM WebSphere Portal. Rational Application Developer provides integrated development tools for all development roles, including Web developers, Java developers, business analysts, architects, and enterprise programmers. Rational Application Developer is part of the IBM Rational Software Delivery

Platform (SDP), which contains products in four life cycle categories: - Architecture management, which includes integrated development environments (Application Developer is here) - Change and release management - Process and portfolio management - Quality management This IBM Redbooks® publication is a programming guide that highlights the features and tooling included with Rational Application Developer V7.0. Many of the chapters provide working examples that demonstrate how to use the tooling to develop applications, as well as achieve the benefits of visual and rapid application development. This publication is an update of Rational Application Developer V6 Programming Guide, SG24-6449. This book consists of six parts: - Introduction to Rational Application Developer - Develop applications - Test and debug applications - Deploy and profile applications - Team development - Appendixes

"Fully updated and revised for Eclipse 3.0, this book is the definitive Eclipse reference--an indispensable guide for tool builders, rich client application developers, and anyone customizing or extending the Eclipse environment." --Dave Thomson, Eclipse Project Program Director, IBM

The Ultimate Guide to Eclipse 3.0 for the Java Developer. No Eclipse Experience Required! Eclipse is a world-class Java integrated development environment (IDE) and an open source project and community. Written by members of the IBM Eclipse Jumpstart team, The Java(tm) Developer's Guide to Eclipse, Second Edition, is the definitive Eclipse companion. As in the best-selling first edition, the authors draw on their considerable experience teaching Eclipse and mentoring developers to provide guidance on how to customize Eclipse for increased productivity and efficiency. In this greatly expanded edition, readers will find A total update, including the first edition's hallmark, proven exercises--all revised to reflect Eclipse 3.0 changes to the APIs, plug-ins, UI, widgets, and more A special focus on rich client support with a new chapter and two exercises A comprehensive exercise on using Eclipse to develop a Web commerce application using Apache's Tomcat A new chapter on JFace viewers and added coverage of views A new chapter on internationalization and accessibility New chapters on performance tuning and Swing interoperability Using this book, those new to Eclipse will become proficient with it, while advanced developers will learn how to extend Eclipse and build their own Eclipse-based tools. The accompanying CD-ROM contains Eclipse 3.0, as well as exercise solutions and many code examples. Whether you want to use Eclipse and Eclipse-based offerings as your integrated development environment or customize Eclipse further, this must-have book will quickly bring you up to speed. The first book to cover the Ektron content management system (CMS) Ektron CMS400.NET provides a complete platform that features all the functionality needed to create, deploy, and manage your Web site. The power is in your hands when you use the built-in server controls to deploy a site or customize the deployment with the API. Authored by a trio of Ektron insiders, this book escorts you through the detailed steps of building a prototype company site. Upon completion, you will have a complete and functional coded Web site that you can use as a template for future projects. Introduces the Ektron CMS400.NET as well as the Ektron architecture and includes an in-depth explanation of the Ektron framework Assumes no prior knowledge of the Ektron platform Shows you how to install the CMS, software dependencies, and samples sites Explains how to implement a social network and construct a storefront Ektron Users Guide provides you with everything you need to know about the exciting possibilities of working with this popular and powerful platform. Get

the most out of the rich development capabilities of SQL Server 2016 to build efficient database applications for your organization

About This Book Utilize the new enhancements in Transact-SQL and security features in SQL Server 2016 to build efficient database applications

Work with temporal tables to get information about data stored in the table at any point in time

A detailed guide to SQL Server 2016, introducing you to multiple new features and enhancements to improve your overall development experience

Who This Book Is For This book is for database developers and solution architects who plan to use the new SQL Server 2016 features for developing efficient database applications. It is also ideal for experienced SQL Server developers who want to switch to SQL Server 2016 for its rich development capabilities. Some understanding of the basic database concepts and Transact-SQL language is assumed.

What You Will Learn Explore the new development features introduced in SQL Server 2016 Identify opportunities for In-Memory OLTP technology, significantly enhanced in SQL Server 2016 Use columnstore indexes to get significant storage and performance improvements Extend database design solutions using temporal tables Exchange JSON data between applications and SQL Server in a more efficient way Migrate historical data transparently and securely to Microsoft Azure by using Stretch Database Use the new security features to encrypt or to have more granular control over access to rows in a table Simplify performance troubleshooting with Query Store Discover the potential of R's integration with SQL Server In Detail

Microsoft SQL Server 2016 is considered the biggest leap in the data platform history of the Microsoft, in the ongoing era of Big Data and data science. Compared to its predecessors, SQL Server 2016 offers developers a unique opportunity to leverage the advanced features and build applications that are robust, scalable, and easy to administer. This book introduces you to new features of SQL Server 2016 which will open a completely new set of possibilities for you as a developer. It prepares you for the more advanced topics by starting with a quick introduction to SQL Server 2016's new features and a recapitulation of the possibilities you may have already explored with previous versions of SQL Server. The next part introduces you to small delights in the Transact-SQL language and then switches to a completely new technology inside SQL Server - JSON support. We also take a look at the Stretch database, security enhancements, and temporal tables. The last chapters concentrate on implementing advanced topics, including Query Store, columnstore indexes, and In-Memory OLTP. You will finally be introduced to R and how to use the R language with Transact-SQL for data exploration and analysis. By the end of this book, you will have the required information to design efficient, high-performance database applications without any hassle.

Style and approach This book is a detailed guide to mastering the development features offered by SQL Server 2016, with a unique learn-as-you-do approach. All the concepts are explained in a very easy-to-understand manner and are supplemented with examples to ensure that you—the developer—are able to take that next step in building more powerful, robust applications for your organization with ease.

ZK is an open-source web development framework that enables web applications to have the rich user experiences and low development costs that desktop applications have had for years. ZK includes an Ajax-based event-driven engine, rich sets of XML User Interface Language (XUL) and XHTML components, and a markup language. The ZK rich client framework takes the so-called server-centric approach: the content synchronization of components and the event pipelining between

clients and servers are automatically done by the engine and Ajax plumbing codes are completely transparent to web application developers. Therefore, the end users get rich user interfaces with similar engaged interactivity and responsiveness to that of desktop applications, while for programmers, development remains similar in simplicity to that of desktop applications. This book is a Developer's Guide that steps you through the ZK framework with examples. It starts with installing and configuring ZK and takes you on to integrate it with other frameworks. By the time you are through the book you will be able to build an application on your own. Learn the A to Z of building excellent Splunk applications with the latest techniques using this comprehensive guide

About This Book This is the most up-to-date book on Splunk 6.3 for developers Get ahead of being just a Splunk user and start creating custom Splunk applications as per your needs Your one-stop-solution to Splunk application development Who This Book Is For This book is for those who have some familiarity with Splunk and now want to learn how to develop an efficient Splunk application. Previous experience with Splunk, writing searches, and designing basic dashboards is expected. What You Will Learn Implement a Modular Input and a custom D3 data visualization Create a directory structure and set view permissions Create a search view and a dashboard view using advanced XML modules Enhance your application using eventtypes, tags, and macros Package a Splunk application using best practices Publish a Splunk application to the Splunk community In Detail Splunk provides a platform that allows you to search data stored on a machine, analyze it, and visualize the analyzed data to make informed decisions. The adoption of Splunk in enterprises is huge, and it has a wide range of customers right from Adobe to Dominos. Using the Splunk platform as a user is one thing, but customizing this platform and creating applications specific to your needs takes more than basic knowledge of the platform. This book will dive into developing Splunk applications that cater to your needs of making sense of data and will let you visualize this data with the help of stunning dashboards. This book includes everything on developing a full-fledged Splunk application right from designing to implementing to publishing. We will design the fundamentals to build a Splunk application and then move on to creating one. During the course of the book, we will cover application data, objects, permissions, and more. After this, we will show you how to enhance the application, including branding, workflows, and enriched data. Views, dashboards, and web frameworks are also covered. This book will showcase everything new in the latest version of Splunk including the latest data models, alert actions, XML forms, various dashboard enhancements, and visualization options (with D3). Finally, we take a look at the latest Splunk cloud applications, advanced integrations, and development as per the latest release.

Style and approach This book is an easy-to-follow guide with lots of tips and tricks to help you master all the concepts necessary to develop and deploy your Splunk applications. Authenticating users with passwords is a fundamental part of web and mobile security. It is also the part that's easy to get wrong. This book is for developers who want to learn how to implement password authentication correctly and securely. It answers many questions that everyone has when writing their own authentication system or learning a framework that implements it. Store passwords securely What is the best password hashing function for your app? How many bytes of salt should you use? What is the optimal password hash length? How to encode and store hashes? When to pepper and encrypt hashes and how to

do it securely? How to avoid vulnerabilities in bcrypt, PBKDF2, and scrypt, and which Argon2 version to use? How to update password hashes to keep up with Moore's law? How to enforce password quality? Remember users How to implement secure sessions that are not vulnerable to timing attacks and database leaks? Why is it a bad idea to use JWT and signed cookies for sessions? How to allow users to view and revoke sessions from other devices? Verify usernames and email addresses How to verify email addresses and why is it important? How Skype failed to do it and got hacked. How to avoid vulnerabilities caused by Unicode? How to disallow profanities and reserved words in usernames? Add multi-factor authentication How to implement two-factor authentication with TOTP and WebAuthn/U2F security keys How to generate recovery codes? How long should they be? How to rate limit 2FA and why not doing it breaks everything? Also... How to create accessible registration and log in forms? How to use cryptography to improve security and when to avoid it? How to generate random strings that are free from modulo bias? The book applies to any programming language. It explains concepts and algorithms in English and provides references to relevant libraries for popular programming languages. There are plenty of books that show you how to write applications in a specific language. They explain the nuts and bolts of the syntax and the use of the tools to build applications with the latest features and functionality available. There are also a number of fine books that show you how to be "a computer consultant." But there are a whole host of issues specific to the business of writing, delivering and supporting custom software systems. This is the only book that will take you on a step-by-step tour of the entire process. "DevGuide 3", with over 150 pages of new material, shows you how to do "The Other 90%" of the work involved in producing custom software applications. Learn to integrate programming with good documentation. This book teaches you the craft of documentation for each step in the software development lifecycle, from understanding your users' needs to publishing, measuring, and maintaining useful developer documentation. Well-documented projects save time for both developers on the project and users of the software. Projects without adequate documentation suffer from poor developer productivity, project scalability, user adoption, and accessibility. In short: bad documentation kills projects. Docs for Developers demystifies the process of creating great developer documentation, following a team of software developers as they work to launch a new product. At each step along the way, you learn through examples, templates, and principles how to create, measure, and maintain documentation—tools you can adapt to the needs of your own organization. What You'll Learn Create friction logs and perform user research to understand your users' frustrations Research, draft, and write different kinds of documentation, including READMEs, API documentation, tutorials, conceptual content, and release notes Publish and maintain documentation alongside regular code releases Measure the success of the content you create through analytics and user feedback Organize larger sets of documentation to help users find the right information at the right time Who This Book Is For Ideal for software developers who need to create documentation alongside code, or for technical writers, developer advocates, product managers, and other technical roles that create and contribute to documentation for their products and services. Developers will discover how to unleash the full power of Microsoft SQL Server 2005 with this developer's guide by best-selling author, Michael Otey. Completely rewritten and reengineered, this book will focus on the new programming

models and will provide readers with all the information they need to produce top-quality commercial applications Engineer your way to excellence! This professional resource explains in full detail how to build VoiceXML-based applications using real-world programs you can adapt for your own projects. The book includes three full-scale, enterprise-level applications complete with all source code. DB2 Developer's Guide is the field's #1 go-to source for on-the-job information on programming and administering DB2 on IBM z/OS mainframes. Now, three-time IBM Information Champion Craig S. Mullins has thoroughly updated this classic for DB2 v9 and v10. Mullins fully covers new DB2 innovations including temporal database support; hashing; universal tablespaces; pureXML; performance, security and governance improvements; new data types, and much more. Using current versions of DB2 for z/OS, readers will learn how to:

- * Build better databases and applications for CICS, IMS, batch, CAF, and RRSAF
- * Write proficient, code-optimized DB2 SQL
- * Implement efficient dynamic and static SQL applications
- * Use binding and rebinding to optimize applications
- * Efficiently create, administer, and manage DB2 databases and applications
- * Design, build, and populate efficient DB2 database structures for online, batch, and data warehousing
- * Improve the performance of DB2 subsystems, databases, utilities, programs, and SQL

stat DB2 Developer's Guide, Sixth Edition builds on the unique approach that has made previous editions so valuable. It combines:

- * Condensed, easy-to-read coverage of all essential topics: information otherwise scattered through dozens of documents
- * Detailed discussions of crucial details within each topic
- * Expert, field-tested implementation advice
- * Sensible examples

IBM® Rational® Application Developer for WebSphere® Software V8 is the full-function Eclipse 3.6 technology-based development platform for developing Java™ Platform, Standard Edition Version 6 (Java SE 6) and Java Platform, Enterprise Edition Version 6 (Java EE 6) applications. Beyond this function, Rational Application Developer provides development tools for technologies, such as OSGi, Service Component Architecture (SCA), Web 2.0, and XML. It has a focus on applications to be deployed to IBM WebSphere Application Server and IBM WebSphere Portal. Rational Application Developer provides integrated development tools for all development roles, including web developers, Java developers, business analysts, architects, and enterprise programmers. This IBM Redbooks® publication is a programming guide that highlights the features and tooling included with Rational Application Developer V8.0.1. Many of the chapters provide working examples that demonstrate how to use the tooling to develop applications and achieve the benefits of visual and rapid application development. This publication is an update of Rational Application Developer V7.5 Programming Guide, SG24-7672. Transform the ways you communicate, create, collaborate, and explore using Microsoft HoloLens

About This Book

- Create immersive augmented reality apps for Microsoft HoloLens from scratch
- Leverage the powerful HoloLens sensors to interact with real-world motions and gestures and make your app life-like
- Explore the powerful Unity 5 SDK along with the Windows Unified platform to get the most out of your HoloLens app

Who This Book Is For

If you are a developer who wants to create augmented reality apps for the Microsoft HoloLens platform, then this is the book for you. Coding experience with C# is assumed.

What You Will Learn

- Design an app for HoloLens that is feasible and attractive to use
- Add gestures and interact with them
- Create sounds in the app and place them in a 3D space
- Use voice generation and voice recognition to make your apps

more lifelike Interact with the physical environment to place holograms on top of physical objects Compare HoloLens with the other products and know how to use its strengths Use assets from third parties to enrich our app In Detail HoloLens, Microsoft's innovative augmented reality headset, overlaps holograms into a user's vision of their environment. Your ideas are closer to becoming real when you can create and work with holograms in relation to the world around you. If you are dreaming beyond virtual worlds, beyond screens, beyond pixels, and want to take a big leap in the world of augmented reality, then this is the book you want. Starting off with brainstorming and the design process, you will take your first steps in creating your application for HoloLens. You will learn to add gestures and write an app that responds to verbal commands before gradually moving on creating sounds in the app and placing them in a 3D space. You will then communicate between devices in the boundaries of the UWP model. Style and approach This book takes a step-by-step, practical, tutorial-style approach where you will dive deep into HoloLens app development. You will work with the API and write your own complex scripts that would interact with the powerful HoloLens sensors and with realistic examples, you will be able to create immersive 3D apps for HoloLens. The European Molecular Biology Open Software Suite (EMBOSS) is a high quality, well documented package of open source software tools for molecular biology. EMBOSS includes extensive and extensible C programming libraries, providing a powerful and robust toolkit for developing new bioinformatics tools from scratch. The EMBOSS Developer's Guide is the official and definitive guide to developing software under EMBOSS. It includes comprehensive reference information and guidelines, including step-by-step instructions and real-world code examples:

- Learn how to write fully-featured tools guided by the people who developed EMBOSS
- Step-by-step guide to writing EMBOSS applications, illustrated with functional, deployed code
- ACD file development - learn how to customise existing tools without coding, or design and write entirely new application interfaces
- EMBOSS API programming guidelines - quickly master application development
- Wrapping and porting applications under EMBOSS - learn how to incorporate third-party tools

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