Apex Developer Guide

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Mastering Apex Programming Paul Battisson 2020-11-20 Get to grips with the advanced features of Apex programming for Salesforce developers using this comprehensive guide Key FeaturesDiscover how to build reliable applications with Apex by avoiding common mistakes and pitfallsLearn how to use the different asynchronous programming tools in ApexProfile and improve the performance of your Apex codeBook Description As applications built on the Salesforce platform are now a key part of many organizations, developers are shifting focus to Apex, Salesforce's proprietary programming language. As a Salesforce developer, it is important to understand the range of tools at your disposal, how and when to use them, and best practices for working with Apex. Mastering Apex Programming will help you explore the advanced features of Apex programming and guide you in delivering robust solutions that scale. This book starts by taking you through common Apex mistakes, debugging, exception handling, and testing. You'll then discover different asynchronous Apex programming options and develop custom Apex REST web services. The book shows you how to define and utilize Batch Apex, Queueable Apex, and Scheduled Apex using common scenarios before teaching you how to define, publish, and consume platform events and RESTful endpoints with Apex. Finally, you'll learn how to profile and improve the performance of your Apex application, including architecture trade-offs. With code examples used to facilitate discussion throughout, by the end of the book, you'll have developed the skills needed to build robust and scalable applications in Apex. What you will learnUnderstand common coding mistakes in Apex and how to avoid them using best practicesFind out how to debug a Salesforce Apex application effectivelyExplore different asynchronous Apex options and their common use casesDiscover tips to work effectively with platform eventsDevelop custom Apex REST services to allow inbound integrationsBuild complex logic and processes on the Salesforce platformWho this book is for This book is for Salesforce developers who are interested in mastering Apex programming skills. You'll also find this book helpful if you're an experienced Java or C# developer looking to switch to Apex programming for developing apps on the Salesforce platform. Basic Apex programming knowledge is essential to understand the concepts covered.

Learning Salesforce Development with Apex Paul Battisson 2020-08-10 Learn to harness the power of the Apex language to build Salesforce applications KEY FEATURES - Learn how to work with the Apex language. - Learn how to develop Apex Triggers. - Learn how to use SOQL and SOSL to retrieve data. - Learn how to write Object-Oriented Salesforce code. - Explore the best practices to deliver scalable and maintainable code. DESCRIPTION This book covers the fundamentals of the Salesforce Apex programming language used by developers to build powerful applications in the cloud. In this book, you will learn how to work with the Apex language to build scalable applications that can interact with and update data from your users. We cover the language from the ground up, introducing programming concepts such as variables and control statements alongside clear and concise examples to help you understand the key concepts and features. Platform-specific features such as Apex triggers, SOQL and SOSL are covered in detail to help ensure you deliver robust and scalable solutions. Nuances and best practices for development are discussed along with how to effectively test your code to ensure that you can deploy it to users with confidence. Object-oriented programming in Apex is also covered in-depth to ensure that you can develop dynamic solutions and build for the future. The book also discusses and shows developers how to integrate

with third-party solutions using REST APIs in Apex. By the end of the book, the reader will know how to start developing applications using Apex with confidence. WHAT WILL YOU LEARN - Learn how to declare variables in Apex. - Understand how to work with collections in Apex. - Use different control statements within Apex to control program flow. - Learn how to use the built-in tools to test in Apex. - Understand how to make callouts to external applications and data sources. WHO THIS BOOK IS FOR This book is intended for those starting out with Apex, whether existing Salesforce Admins or those joining the Salesforce ecosystem with little professional prior programming experience, such as students. The reader is expected to have some basic familiarity with Salesforce as a platform, although key concepts are reviewed. TABLE OF CONTENTS 0. Introduction 1. An Introduction to the Salesforce Platform 2. What is Apex? 3. Variables in Apex 4. Collections 5. Control Statements 6. Apex Triggers 7. SOQL 8. SOSL 9. Defining Apex Classes 10. Apex Class Inheritance 11. Testing Apex 12. Callouts in Apex 13. Epilogue

Salesforce Platform Developer I Certification Guide Jan Vandevelde 2019-05-24 Build and deploy scalable applications on the Salesforce Lightning Platform using the latest features of Spring '19 Key Features An end-to end-guide with practice tests to help you achieve the Salesforce Platform Developer certification Design data models, user interfaces, and business logic for your custom applications Understand the complete development life cycle from designing to testing Book Description Salesforce Lightning Platform, used to build enterprise apps, is being increasingly adopted by admins, business analysts, consultants, architects, and especially developers. With this Salesforce certification, you'll be able to enhance your development skills and become a valuable member of your organization. This certification guide is designed to be completely aligned with the official exam study guide for the latest Salesforce Certified Platform Developer I release and includes updates from Spring '19. Starting with Salesforce fundamentals and performing data modeling and management, you'll progress to automating logic and processes and working on user interfaces with Salesforce components. Finally, you'll learn how to work with testing frameworks, perform debugging, and deploy metadata, and get to grips with useful tips and tricks. Each chapter concludes with sample questions that are commonly found in the exam, and the book wraps up with mock tests to help you prepare for the DEV501 certification exam. By the end of the book, you'll be ready to take the exam and earn your Salesforce Certified Platform Developer I certification. What you will learn Solve sample questions and mock tests and work with exam patterns Gain an understanding of declarative Salesforce tools such as Process Builder, flows, and many more Code in Salesforce using the Developer Console and IDEs Grasp the basics of object-oriented programming Write Apex classes, Visualforce pages, and Apex test classes with easy-to-follow steps Explore the different deployment tools that you can use to push metadata to different environments Build custom declarative apps and programs on Force.com platforms Who this book is for The Salesforce Platform Developer I Certification Guide is for you if you want to learn how to develop and deploy business logic and user interfaces using the capabilities of the Lightning Platform. No prior knowledge of Apex programming is required.

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Cloud Computing Using Salesforce Ashwini Kumar Raj 2021-01-02 Design customized software solutions using the Salesforce Application Development services. KEY FEATURES ● Get an overview of Salesforce ● Understand the Design and Data Process ● Automate Business Process using Salesforce tools ● Study up

on Security & Data Management in Salesforce ● Learn how to write code on the Salesforce Platform DESCRIPTION This book enables you to use Salesforce as per your business needs. You will get an overview of all the aspects and features of Salesforce. Following the introduction, the book focuses on how to design an app. You will then learn how to use the Salesforce Data Process and Security Architecture in the app design. Moving on, you will understand how to use force.com to customize the UI and automate the process. Lastly, you will learn how to deploy and debug the app. If you are planning to get a PD1(Platform Developer 1), Admin, or App builder certification, this book is for you. WHAT YOU WILL LEARN ● Get to know more about the Lightning Experience Unit ● Learn how to develop reports and dashboards in Salesforce ● Get familiar with the basics of Salesforce Apex Coding and Programming ● Learn how to use Custom Controllers and Controller Extensions in Salesforce ● Learn how to integrate Email services in Salesforce WHO THIS BOOK IS FOR This book is designed for Computer Science students who want to learn Salesforce. It is also for Salesforce Admins, who wants to explore the coding part of Salesforce. This book will also help professionals to clear PD1(Platform Developer 1), Admin, and App builder certification. TABLE OF CONTENTS 1. Introduction to Cloud Computing 2. Salesforce Fundamentals 3. Introduction to Salesforce Lightning Interface 4. Introduction to CRM 5. Organisational Set up 6. Designing Applications on Force.com 7. Implementing Business Processes 8. Data Management 9. Data Analytics - Reports & Dashboards 10. SECURITY AND ACCESS 11. Introduction to Chatter 12. Mobile Administration 13. Programming with Apex 14. Use SOQL & SOSL 15. DML Essentials 16. Trigger Essential 17. Creating Visualforce Pages 18. Working with Custom Controllers and Controller Extensions 19. More Customization Less Programming 20. Testing Essentials 21. Scheduler, Batch, Email Service, Integration 22. Debugging & Deployment

Enter the Animal Teya Brooks Pribac 2021-02-01 Historically, grief and spirituality have been jealously guarded as uniquely human experiences. Although non-human animal grief has been acknowledged in recent times, its potency has not been recognised as equal to human grief. Anthropocentric philosophical questions still underpin both academic and popular discussions. In Enter the Animal, Teya Brooks Pribac examines what we do and don't know about grief and spirituality. She explores the growing body of knowledge about attachment and loss and how they shape the lives of both human and non-human animals. A valuable addition to the vibrant interdisciplinary conversation about animal subjectivity, Enter the Animal identifies conceptual and methodological approaches that have contributed to the prejudice against nonhuman animals. It offers a compelling theoretical base for the consideration of grief and spirituality across species and highlights important ethical implications for how humans treat other animals.

Oracle APEX Priyanka Agarwal 2017-05-08 After Great response of Oracle APEX - Tips and Tricks I, Priyanka Agarwal is releasing her second book in series. Oracle APEX - Tips and Tricks II contains step-by-step application development techniques, real-world coding examples, and best practices. You will find out how to work with the App Builder and Page Designer, use APEX themes (responsive and mobile included), templates and wizards, and design and deploy custom web apps. Helps understand APEX concepts and programming fundamentals. Make the most of Oracle Apex with this guide to best practices and its Tips and Tricks II. It will help you look at the bigger picture when building applications and take more elements into account and deal with everyday common issues that are faced. Who This Book Is For This book is filled with tips on how to make the most of Oracle APEX. Developers beginning with application development as well as those who are experienced will benefit from this book. You will need to have basic knowledge of SQL and PL/SQL to follow the examples in this book. In Detail Have you ever wanted to create real-world database applications? In this book you're not only getting APEX best practices and tricks, but will also take into account the total environment of an APEX application and benefit from it. "Oracle APEX Tips and Tricks" will guide you through the development of real-world applications. It will give you a broader view of APEX. The various aspects include setting up APEX environment, testing and debugging, security, and getting the best out of SQL and PL/SQL. "Oracle APEX Tips and Tricks" is where practical development begins! Published by: MeetCoogle

Beginning Salesforce Developer Michael Wicherski 2017-12-05 Get started developing on the Force.com platform in no time. With step-by-step guidance, starting with setting up your developer environment and progressing through to deploying to production, you will learn industry best practices to release robust custom applications with tangible benefits to your company or your client. Geared specifically toward beginning developers, Beginning Salesforce Developer establishes a strong understanding of basic code constructs through examples. Rather than simply explaining how to use the platform, you will receive a comprehensive understanding of why, allowing you to address platform quirks and "gotchas" that might occur. The book also serves to lay the foundation for continuing on to Salesforce Developer Pro. What You'll Learn Configure your Salesforce development environment Understand the Salesforce data model and query languages Create basic Apex triggers Use standard controllers with basic Visualforce pages Utilize Visualforce with custom-built Apex controllers Write test coverage Who This Book Is For Salesforce administrators who wish to transition into developing on the Force.com platform. The book also serves as a quick immersion into the world of development for complete beginners through proprietary Salesforce development languages on the Force.com platform.

Force.com Enterprise Architecture Andrew Fawcett 2017-03-31 Architect and deliver packaged Force.com applications that cater to enterprise business needs About This Book Explore the lightning framework, advanced application life cycle processes, and testing Use the Force.com platform to build truly integrated, scalable, and robustly engineered applications focused on enterprise-level customer demands Using the Lightning technology to deliver modern and responsive user experiences targeting multiple devices through Lightning Experience and Salesforce1 Mobile. Step-by-step, work on examples to get you building your own ready-to-install packaged application Who This Book Is For This book is for advanced Force.com developers and architects who need to understand the Salesforce platform from the perspective of enterprise-level requirements. A prior understanding of Apex and Visualforce is a must. Those familiar with other enterprise software ecosystems will also find this book ideal as they adopt Force.com. What You Will Learn Package, install, test, and upgrade an application Define architecture-aligning data storage and functional requirements Develop Apex code that is easy to navigate, self-documenting, testable, robust, and organic Leverage your application's clientagnostic Service layer backbone to support numerous platform areas Get the most from hosting your application within the Lightning Experience and Salesforce1 Mobile clients Apply querying, indexing, and asynchronous best practices Leverage mocking and dependency injection in your Apex tests Explore tips for developing advanced applications In Detail Companies of all sizes have seen the need for Force.com's architectural strategy focused on enabling their business objectives. Successful enterprise applications require planning, commitment, and investment in the best tools, processes, and features available. This book will teach you how to architect and support enduring applications for enterprise clients with Salesforce by exploring how to identify architecture needs and design solutions based on industry standard patterns. There are several ways to build solutions on Force.com, and this book will guide you through a logical path and show you the steps and considerations required to build packaged solutions from start to finish. It covers all aspects, from engineering to getting your application into the hands of your customers, and ensuring that they get the best value possible from your Force.com application. You will get acquainted with extending tools such as Lightning App Builder, Process Builder, and Flow with your own application logic. In addition to building your own application API, you will learn the techniques required to leverage the latest Lightning technologies on desktop and mobile platforms. Style and approach The book takes a straightforward approach, taking apart the Force.com architecture for you to gain a deep understanding of how you can implement the Salesforce platform based on enterprise-level requirements.

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Beginning Oracle Application Express Rick Greenwald 2011-03-16 This book shows you how to master Application Express to build effective web-based Oracle database applications. The author provides hands-on, step-by-step guidance on the complete development process, through creating, customizing, and extending the application. In addition to presenting how to build a simple application, this guide also details reporting and charting, themes and templates, and security. Additionally, it demonstrates how to use packaged applications and how to work with multiple applications. Data migration and integration with the Oracle environment is also discussed.

Head First Java Kathy Sierra 2005-02-09 Learning a complex new language is no easy task especially when it s an object-oriented computer programming language like Java. You might think the problem is your

brain. It seems to have a mind of its own, a mind that doesn't always want to take in the dry, technical stuff you're forced to study. The fact is your brain craves novelty. It's constantly searching, scanning, waiting for something unusual to happen. After all, that's the way it was built to help you stay alive. It takes all the routine, ordinary, dull stuff and filters it to the background so it won't interfere with your brain's real work-- recording things that matter. How does your brain know what matters? It's like the creators of the Head First approach say, suppose you're out for a hike and a tiger jumps in front of you, what happens in your brain? Neurons fire. Emotions crank up. Chemicals surge. That's how your brain knows. And that's how your brain will learn Java. Head First Java combines puzzles, strong visuals, mysteries, and soul-searching interviews with famous Java objects to engage you in many different ways. It's fast, it's fun, and it's effective. And, despite its playful appearance, Head First Java is serious stuff: a complete introduction to object-oriented programming and Java. You'll learn everything from the fundamentals to advanced topics, including threads, network sockets, and distributed programming with RMI. And the new. second edition focuses on Java 5.0, the latest version of the Java language and development platform. Because Java 5.0 is a major update to the platform, with deep, code-level changes, even more careful study and implementation is required. So learning the Head First way is more important than ever. If you've read a Head First book, you know what to expect--a visually rich format designed for the way your brain works. If you haven't, you're in for a treat. You'll see why people say it's unlike any other Java book you've ever read. By exploiting how your brain works, Head First Java compresses the time it takes to learn and retain--complex information. Its unique approach not only shows you what you need to know about Java syntax, it teaches you to think like a Java programmer. If you want to be bored, buy some other book. But if you want to understand Java, this book's for you.

Oracle APEX 4. 0 Cookbook Michel Van Zoest 2011 Annotation. Oracle Application Express 4.0 is a rapid web application development tool that works with the Oracle database. Using features like Plug-ins and Dynamic Actions, APEX helps you build applications with the latest techniques in AJAX and JavaScript. The Oracle Application Express 4.0 Cookbook shows you recipes to develop and deploy reliable, modern web applications using only a web browser and limited programming experience. With recipes covering many different topics, it will show you how to use the many features of APEX 4.0. You will learn how to create simple form and report pages and how to enhance the look of your applications by using stylesheets. You will see how you can integrate things such as Tag Clouds, Google Maps, web services, and much more in your applications. Using Plug-ins, Dynamic Actions, BI Publisher, translations and Websheets, you will be able to enhance your applications to a new level in APEX. This book will show you how to be Agile in the development of your web applications by using Team Development, debugging, and third-party tools. After reading this book, you will be able to create feature-rich web applications in Application Express 4.0 with ease and confidence. A practical reference guide with over 70 recipes for every APEX developer.

Django Cookbook Beau Curtin 2016-06-13 Django Cookbook Web Development with Django This book is an exploration of Django, which is a Python framework used for the development of web apps. This book provides you with an explanation of what the framework is and its relationship to Python. The first chapter guides you on how to set up the environment ready for programming with Django. The Admin Interface in Django will also be discussed. After reading, you will learn how to set up, launch and use this interface. This book also guides you as to how to create views in Django. The process of URL mapping, models in Django, and how to perform page redirection will also be discussed in this book. The various ways to send E-mails in Django will also be covered. Generic views as well as form processing will also be discussed in detail, as well as the processes for handling both cookies and sessions. Here is a preview of what you'll learn: Setting up the Environment The Admin Interface Creating Views in Django - URL Mapping Template System Models Page Redirection Sending E-mails Generic Views Form Processing in Django Uploading Files Handling Cookies Sessions in Django Memory Caching in Django Download your copy of " h1 Django Cookbook " by scrolling up and clicking "Buy Now With 1-Click" button.

Advanced Apex Programming in Salesforce Dan Appleman 2018 Advanced Apex Programming focuses entirely on the Apex language and core design patterns. You'll learn how to truly think in Apex - to embrace limits and bulk patterns. You'll see how to develop architectures for efficient and reliable trigger handling, and for asynchronous operations. You'll discover that best practices differ radically depending on whether you are building software for a specific organization or for a managed package. And you'll find approaches for incorporating testing and diagnostic code that can dramatically improve the reliability and deployment of Apex software, and reduce your lifecycle and support costs.Based on his experience as a consultant, Salesforce MVP, and architect of major AppExchange packages, Dan Appleman focuses on the real-world problems and issues that are faced by Apex developers every day, along with the obscure problems and surprises that can sneak up on you if you are unprepared.

Salesforce Coding Genius James Anderson 2019-06-26 Architect and deliver packaged Force.com applications that cater to enterprise business needsKey Features* Salesforce Lightning Wizard Framework - A framework built on the top of Lightning to support complex requirements of organisations* Salesforce Batch Framework - A framework built on Apex, Native Salesforce which helps organisations to achieve any complex asynchronous jobs requirements easily* Saelsforce Trigger Framework - Step-by-Step process to adopt with Trigger framework which support any complex real time business operations and also reduces cyclomatic complexity at the same time.Book DescriptionSalesforce Coding Genius is neither a tutorial nor a book for beginners. Intended for developers who are already familiar with the Apex language, and experienced Java and C# developers who are moving to Apex, this book starts where the Salesforce Apex documentation leaves off.Are you facing a challenging Salesforce.com problem--say, relating to automation, configuration, formulation, or reporting--that you can't quite crack? Or maybe you are hoping to infuse some creativity into your solution design strategy to solve problems faster or make solutions more efficient? Salesforce Coding Genius shows you how to unlock the power of the Force.com platform to solve real business problems--and all without writing a line of code. Adhering to Salesforce.com's "clicks, not code", Salesforce.com expert Markus Koche walks you through different business problems and identifies effective, creative--and proven--approaches to solutions using the platform's declarative framework.If you are a Salesforce.com administrator, analyst, consultant, or developer, you can attest to the insatiable appetite of users for new functionality. Your clients expect solutions--and now with Salesforce Coding Genius you can deliver a best solution for your project.What you will learn* Package, install, test, and upgrade an application* Define architecture-aligning data storage and functional requirements* Develop Apex code that is easy to navigate, self-documenting, testable, robust, and organic* Leverage your application's clientagnostic Service layer backbone to support numerous platform areas* Get the most from hosting your application within the Lightning Experience and Salesforce1 Mobile clients* Apply querying, indexing, and asynchronous best practices* Leverage mocking and dependency injection in your Apex tests* Explore tips for developing advanced applicationsThe purpose of this book is to detail best practice for Apex code development on the Salesforce project which should be followed by developers working on the project. It also details some design patterns and testing frameworks which should be adopted where possible to provide robust and scalable platforms as follows:+ Salesforce Lightning Wizard Framework + Salesforce Batch Apex Framework+ Salesforce Trigger Framework+ Salesforce Lightning Component FrameworkThese frameworks helps in understanding the basics of Apex / Lightning. It is designed on the top of exisiting Apex or Lightning Framework which extends the use cases of most common business logics. This book has defined a lightning component framework that will be leveraged and utilised on the project. For any query or concern drop us a mail on info@expounddigital.com

Oracle Application Express by Design Patrick Cimolini 2017-06-25 Learn the many design decisions that must be made before starting to build a large Oracle Application Express (APEX) application for the cloud or enterprise. One of APEX's key strengths is the fact that it is a Rapid Application Development (RAD) tool. This is also a major weakness when it tempts developers to start coding too soon. Small applications that consist of tens of pages can be coded without a lot of design work because they can be re-factored quickly when design flaws are discovered. Design flaws in large cloud and enterprise applications that consist of hundreds or thousands of pages are not so easy to re-factor due to the time needed to redevelop and retest the application, not to mention the risk of breaking functionality in subtle ways. Designing a large application before coding starts is a profitable exercise because a thoughtful design goes a long way in mitigating cost overruns and schedule slippage while simultaneously enhancing quality. Oracle Application Express by Design takes into account perspectives from other non-developer stakeholders such as maintenance developers, business analysts, testers, technical writers, end users, and business owners;

overlooking these perspectives is one of the chief causes of expensive rework late in the development cycle. Oracle Application Express by Design illustrates APEX design principles by using architecture diagrams, screen shots, and explicit code snippets to guide developers through the many design choices and complex interrelationship issues that must be evaluated before embarking on large APEX projects. Guides you through important, up-front APEX design decisions Helps you to optimize your design by keeping all stakeholders in mind Explicit code examples show how design impacts cost, schedule, and quality What You Will Learn Pick and choose from the list of designs before coding begins. Bake optimal quality into the underlying fabric of an APEX application. Think and design from outside the developer's narrow perspective. Optimize APEX application designs to satisfy multiple stakeholder groups. Evaluate design options through hands-on, explicit code examples. Define and measure success for large cloud and enterprise APEX applications. Who This Book Is For Oracle Application Express by Design is written for APEX developers and development teams. Architecture diagrams, screen shots, and explicit code snippets are designed to focus developers' attention on the diverse needs of all the stakeholders who are involved in building large cloud and enterprise APEX applications. Readers will find concrete examples in the book of how to implement various design strategies to achieve optimal results for their organization.

Extending Oracle Application Express with Oracle Cloud Features Adrian Png 2022-09-04 This book shows Oracle Application Express (APEX) developers how to take advantage of Oracle Cloud Infrastructure (OCI) features for APEX that might otherwise go missed. You will learn how to use OCI features for data science tasks such as detecting anomalies in your data, securing your applications through single sign-on, training machine learning models, and much more. The book provides an in-depth look at Oracle Cloud features and demonstrates how they can be easily integrated into an APEX application. While the book focuses on developing for APEX, the approaches covered in the book are also applicable to any other modern web developer framework for applications running on the OCI platform. For many organizations, the database is the heart of operations. Those who opt to invest in the Oracle Database can learn from this book how to maximize their return on investment. The book begins with an introduction to OCI and help on setting up your OCI developer environment. From there you'll begin with security by learning to provide single sign-on via the Oracle Identity Cloud Service. Subsequent chapters take you through cloud-focused features such as Object Storage, Oracle Function, Oracle Machine Learning REST Services, and Oracle Cloud Anomaly Detection. You'll even learn to troubleshoot email delivery services. What You Will Learn Be aware of Oracle Cloud Infrastructure features for developers Provide a seamless user login experience with OAuth2 authentication Integrate with cloud native services such as cloud-based object storage and serverless functions Enhance APEX applications with machine learning features Implement Natural Language Processing and Anomaly Detection Algorithms Troubleshoot email delivery services when sending emails using the APEX_MAIL package Design and implement an APEX environment that is secure Who This Book Is For APEX developers who are looking to extend their application's capabilities using features and resources available through the Oracle Cloud, and cloud solutions architects who support development teams and help design and implement architectures that benefit business operations

Oracle APEX Best Practices Alex Nuijten 2012-11-05 In clearly written chapters you will be guided through different aspects of Oracle Application Express. Varying from setting up your environment to maximizing SQL and PL/SQL. Examples are given based on a simple but appealing case. This book is filled with best practices on how to make the most of Oracle APEX. Developers beginning with application development as well as those who are experienced will benefit from this book. You will need to have basic knowledge of SQL and PL/SQL to follow the examples in this book.

Mastering Salesforce DevOps Andrew Davis 2019-10-29 This practical guide brings DevOps principles to Salesforce development. It fits together two major movements within the IT world: the movement to Software/Platform as a Service (SaaS/PaaS), and the DevOps movement. While SaaS and PaaS allow companies to invest in their core competencies rather than maintain their own infrastructure, the goal of DevOps is to optimize the process of delivering software innovation and value. The release of Salesforce DX in late 2017 unlocks the possibility of a true DevOps workflow on Salesforce. But DevOps is new to the Salesforce world and there is not a widespread understanding of its goals and methods, and so adoption of Salesforce DX is still in the early stages. Mastering Salesforce DevOps explains how to build a powerful and comprehensive DevOps workflow for Salesforce—allowing you to finally deploy the world's most innovative platform using the world's most effective and efficient techniques. It addresses the need for a comprehensive guide to DevOps for Salesforce, allowing teams to bring proven practices from the IT world to resolve the hardest problems facing Salesforce developers today. What You Will Learn Improve company performance and software delivery performance using Salesforce DX Translate DevOps concepts into the unique language and practices of Salesforce Understand why and how you can implement Salesforce DX to achieve greater productivity and innovation Enable continuous delivery on Salesforce Build packages and architect code so it can be deployed easilyAllow admins to participate in what has traditionally been a developer workflow Know the techniques for reducing the stress and risk of deploymentApply the full range of automated tests that can be used on Salesforce Who This Book Is for Salesforce developers, release managers, and those managing Salesforce development teams who need a guide to DevOps, and DevOps specialists who need to apply familiar concepts to Salesforce

Oracle Application Express 3.2 Arie Geller 2010-06-01 Developing data-centric web applications can be a real challenge as it is a multi-disciplinary process. There are many technologies involved in the client side (HTML, CSS, JavaScript, and so on); the interaction with the database, on the server side; the typeless nature of the web environment; and above all, the need to put it all together. This needs to be done in a manner that will allow the end users to do their job in the simplest and most efficient way, while enriching their user experience. How often have you wished that developing such applications could be uncomplicated and straightforward? This book will show you that it's possible, and teaches you how to do it, using Oracle Application Express (APEX). With this practical guide to APEX, you'll learn how to easily develop data-centric web applications for the Oracle environment. The book covers the development cycle of an APEX application, reviewing the major APEX principles and building blocks chapter by chapter. It starts with the basic skills you need to get going when developing with APEX. Later, you will learn advanced issues, such as how to build tailor-made forms and reports, using APEX APIs, AJAX, and so on. It not only deals with the "How" but also with the "Why", and before long you will be able to understand APEX concepts, and use them to expand and enhance the built-in features, wizards, and tools. The book starts with the design phase, including building the necessary database objects infrastructure; continues with ways to implement the application logic (on the server side) and the User Interface (on the client side), whilst showing you how to enhance your applications' features and functionality according to your specific needs; and it ends with application deployment. The book emphasizes and clearly documents areas such as Globalization, Localization, and developing multi-lingual applications, and includes a special discussion about Right-To-Left (RTL) support for APEX applications, documented here for the first time. Throughout the book, there are many screenshots and snippets of code, taken from working APEX applications. The book is accompanied by demo APEX applications that you can download and install in your APEX environment, thoroughly analyze, and learn from as you read the book.

Pro Oracle Application Express 4 Tim Fox 2011-11-28 Pro Oracle Application Express 4 is your key to mastering one of the most innovative products to come out of Oracle in years. Application Express, termed "APEX" for short, is fast becoming one of the easiest and most widely-used of tools for creating enterprise-level applications that run against an Oracle database. APEX is easy enough for power users to create ad-hoc applications atop something more reliable than a spreadsheet. Yet APEX is powerful and extensible enough to enable fully-scalable, enterprise-level applications that are accessed by thousands of users. Authors Tim Fox, John Scott, and Scott Spendolini take you to the professional level in developing for Application Express. They show how to handle user authentication in enterprise environments and how to extend APEX by writing components based upon Oracle's new plug-in architecture. You'll learn to deal with localization issues such as time zones and translations, and to customize the look and feel of an APEX website to blend in with your corporate branding strategy. The authors also cover web service development, performance and scalability, and the production issues that you encounter in enterprise-level deployments. Many years of experience in solving the "hard problems" are coalesced in this book to help you, the reader, take advantage of all that APEX has to offer. Focuses on high-end, enterprise-level development Covers new features such as plug-ins and Websheets Introduces the new interface released with APEX 4.0

Mastering Salesforce CRM Administration Rakesh Gupta 2017-03-27 Learn about the Advanced Administration Certification Examination and build a successful career in Salesforce administration About This Book Build your skills and knowledge to crack the Advanced Admin Certification Examination Leverage the advanced administration capabilities of Salesforce and Salesforce1 Optimize and extend Sales Cloud and Service Cloud applications Who This Book Is For This book is written for Salesforce admins who are looking to gain an in-depth knowledge of the Salesforce platform and grow their value in their organization. It will teach them to implement and design advanced business process automation for the benefit of their organization. What You Will Learn Adopt Lightning Experience to improve the productivity of your organization's sales team Create and maintain service entitlements and entitlement processes Process Builder basic and advanced concepts Different ways to deploy applications between environments Best practices for improving and enriching data quality In Detail The book starts by refreshing your knowledge of common admin tasks. You will go over Lightning Experience and various security aspects. You will be shown how to implement territory management in your organization and make use of custom objects. From here, the book progresses to advanced configuration, data management, and data analytics before swiftly moving on to setting up advanced organization-wide features that affect the look and feel of the application. Extend the capabilities of your organization's Salesforce implementation by optimizing and extending Sales Cloud, Salesforce1, and Service Cloud applications. This guide will equip you with the tools you need to build a successful career in Salesforce. Style and approach The book takes a straightforward, no-nonsense approach to working with the Salesforce CRM platform. It is filled with examples, advanced use cases, and all the resources you need to be a Salesforce Jedi.

Salesforce Advanced Administrator Certification Guide Enrico Murru 2019-11-08 Salesforce Advanced Administrator Certification Guide is a complete resource that will help you gain the knowledge and master the skills required to earn the advanced administrator credentials. With plenty of questions and answers along with best practices, you will learn all the concepts asked in exams specially designed with this guide.

Oracle Application Express Forms Converter Douwe Pieter van den Bos 2009-07-29 Packed with plentiful screenshots and clear explanations, this book is a step-by-step tutorial that demonstrates a successful Oracle Forms to Oracle APEX Conversion project. This book is for Oracle Forms developers who want to migrate to Oracle APEX. The book will also be useful for Oracle APEX developers who want to convert their older Forms applications to Oracle APEX applications.

Understanding Oracle APEX 5 Application Development Edward Sciore 2015-07-15 This new edition of Understanding Oracle APEX 5 Application Development shows APEX developers how to build practical, non-trivial web applications. The book introduces the world of APEX properties, explaining the functionality supported by each page component as well as the techniques developers use to achieve that functionality. The book is targeted at those who are new to APEX and just beginning to develop real projects for production deployment. Reading the book and working the examples will leave you in a good position to build good-looking, highly-functional, web applications. Topics include: conditional formatting, user-customized reports, data entry forms, concurrency and lost updates, and updatable reports. Accompanying the book is a demo web application that illustrates each concept mentioned in the book. Specific attention is given in the book to the thought process involved in choosing and assembling APEX components and features to deliver a specific result. Understanding Oracle APEX 5 Application Development is the ideal book to take you from an understanding of the individual pieces of APEX to an understanding of how those pieces are assembled into polished applications. Teaches how to develop non-trivial APEX applications. Provides deep understanding of APEX functionality. Shows the techniques needed for customization.

Apex Design Patterns Jitendra Zaa 2016-04-27 Harness the power of Apex design patterns to build robust and scalable code architectures on the Force.com platform About This Book Apply Creational, Structural and behavioural patterns in Apex to fix governor limit issues. Have a grasp of the anti patterns to be taken care in Apex which could have adverse effect on the application. The authors, Jitendra Zaa is a salesforce MVP and Anshul Verma has 12+ years of experience in the area of application development. Who This Book Is For If you are a competent developer with working knowledge of Apex, and now want to deep dive into the world of Apex design patterns to optimize the application performance, then this book is for you. Prior knowledge of Salesforce and Force.com platform is recommended. What You Will Learn Apply OOPs

principal in Apex to design a robust and efficient solution to address various facets to a business problem Get to grips with the benefits and applicability of using different design patterns in Apex Solve problems while instantiating, structuring and giving dynamic behavior to Apex classes Understand the implementation of creational, structural, behavioral, concurrency and anti-patterns in your application Follow the Apex best practices to resolve governor limit issues Get clued up about the Inheritance, abstract classes, polymorphism in Apex to deal with the object mechanism Master various design patterns and determine the best out of them Explore the anti patterns that could not be applied to Apex and their appropriate solutions In Detail Apex is an on-demand programming language providing a complete set of features for building business applications – including data models and objects to manage data. Apex being a proprietor programming language from Salesforce to be worked with multi tenant environment is a lot different than traditional OOPs languages like Java and C#. It acts as a workflow engine for managing collaboration of the data between users, a user interface model to handle forms and other interactions, and a SOAP API for programmatic access and integration. Apex Design Patterns gives you an insight to several problematic situations that can arise while developing on Force.com platform and the usage of Design patterns to solve them. Packed with real life examples, it gives you a walkthrough from learning design patterns that Apex can offer us, to implementing the appropriate ones in your own application. Furthermore, we learn about the creational patterns that deal with object creation mechanism and structural patterns that helps to identify the relationship between entities. Also, the behavioural and concurrency patterns are put forward explaining the communication between objects and multi-threaded programming paradigm respectively. We later on, deal with the issues regarding structuring of classes, instantiating or how to give a dynamic behaviour at a runtime, with the help of anti-patterns. We learn the basic OOPs principal in polymorphic and modular way to enhance its capability. Also, best practices of writing Apex code are explained to differentiate between the implementation of appropriate patterns. This book will also explain some unique patterns that could be applied to get around governor limits. By the end of this book, you will be a maestro in developing your applications on Force.com for Salesforce Style and approach This book is a step-by-step guide, complete with well-tested programs and real world situations to solve your common occurring problems in Apex design by using the anti-patterns. It gets crackling from exploring every appropriate solution to comparing the best one as per OOps principal.

Understanding Oracle APEX 20 Application Development Edward Sciore 2021-01-03 This book shows developers and Oracle professionals how to build practical, non-trivial web applications using Oracle's rapid application development environment – Application Express (APEX). This third edition Is revised to cover the new features and user interface experience found in APEX 20. Interactive grids and form regions are two of the newer aspects of APEX covered in this edition. The book is targeted at those who are new to APEX and just beginning to develop real projects for deployment, as well as those who are familiar with APEX and want a deeper understanding. The book takes you through the development of a demo web application that illustrates the concepts all APEX programmers should know. This book introduces the world of APEX properties, explaining the functionality supported by each page component as well as the techniques developers use to achieve that functionality. Topics include conditional formatting, user-customized reports, data entry forms, concurrency and lost updates, and security control. Specific attention is given in the book to the thought process involved in choosing and assembling APEX components and features to deliver a specific result. Understanding Oracle APEX 20 Application Development, 3rd Edition is the ideal book to take you from an understanding of the individual pieces of APEX to an understanding of how those pieces are assembled into polished applications. What You Will Learn Build attractive, highly functional web apps from the ground up Enhance and customize pages created by the APEX wizards Understand the security implications of page design Write PL/SQL code for process activity and verification Build complex components such as forms and interactive grids Who This Book Is For Developers new to APEX who desire a strong fundamental understanding of how APEX applications work. For existing developers and database administrators desiring to mine the most value from APEX by improving their development techniques.

Salesforce Handbook Wes Nolte 2011-03-01 This book is not intended to be a deep-dive on security, programming, reporting, configuration, etc. but more of a high-level overview on salesforce.com, Force.com

development, tools, methodology and other resources. We will not cover all aspects of salesforce.com. We wrote this book to (hopefully) become an invaluable resource for anyone new or inexperienced with the Force.com platform. For new administrators and developers coming on to the platform, we see a gaping hole in existing reference books. This book is not intended for end users or advanced developers. This book is for people somewhere in the middle; let's say a business analyst or a new Java or .NET developer. We would like this to be the first book you pick up after your boss walks in and says, "Let's take a look at salesforce.com and see if we can build some applications in the cloud."This book contains the information that we wish we had when we started developing applications on Force.com.

Advanced Apex Programming for Salesforce.com and Force.com Daniel Appleman 2013 Note: The third edition of this book is now available ISBN: 978-1936754106 in both paperback and eBook formats Beyond the Force.com documentation - Second edition Advanced Apex Programming for Salesforce.com and Force.com is neither a tutorial nor a book for beginners. Intended for developers who are already familiar with the Apex language, and experienced Java and C# developers who are moving to Apex, this book starts where the Force.com documentation leaves off. Instead of trying to cover all of the features of the platform, Advanced Apex programming focuses entirely on the Apex language and core design patterns. You'll learn how to truly think in Apex - to embrace limits and bulk patterns. You'll see how to develop architectures for efficient and reliable trigger handling, and for asynchronous operations. You'll discover that best practices differ radically depending on whether you are building software for a specific organization or for a managed package. And you'll find approaches for incorporating testing and diagnostic code that can dramatically improve the reliability and deployment of Apex software, and reduce your lifecycle and support costs. Based on his experience as a consultant, Force.com MVP and architect of a major AppExchange package, Dan Appleman focuses on the real-world problems and issues that are faced by Apex developers every day, along with the obscure problems and surprises that can sneak up on you if you are unprepared. This second edition contains updates through Winter 14 (API 29) along with significant new content on triggers, asynchronous design patterns, concurrency and more

Learning Salesforce Lightning Application Development Mohith Shrivastava 2018-07-31 Build, design, and style beautiful and informative applications on the Salesforce Lightning platform Key Features Build and Test Lightning Components that enhance application usability and adaptability Apply Security Best Practices to your Custom Lightning Components Design Lightning Components for Salesforce UIs such as Lightning Pages, Salesforce 1 Application, Communities, and more. Book Description Built on the Salesforce App Cloud, the new Salesforce Lightning Experience combines three major components: Lightning Design System, Lightning App Builder, and Lightning Components, to provide an enhanced user experience. This book will enable you to quickly create modern, enterprise apps with Lightning Component Framework. You will start by building simple Lightning Components and understanding the Lightning Components architecture. The chapters cover the basics of Lightning Component Framework semantics and syntax, the security features provided by Locker Service, and use of third-party libraries inside Lightning Components. The later chapters focus on debugging, performance tuning, testing using Lightning Testing Services, and how to publish Lightning Components on Salesforce AppExchange. What you will learn Understand Lightning Components architecture Learn Locker security best practices Debug and Improve performance of your Lightning Components Use third-party libraries along with Lightning Component Framework Learn how to publish Lightning Components on AppExchange Use Lightning Out to take your Lightning Components outside the Salesforce platform Who this book is for This book is for Salesforce developers or developers from other platforms who are familiar with HTML, CSS, and JavaScript and want to build and test Salesforce Lightning components. No knowledge of Salesforce Lightning is required.

Expert Oracle Application Express Doug Gault 2015-08-20 Expert Oracle Application Express, 2nd Edition is newly updated for APEX 5.0 and brings deep insight from some of the best APEX practitioners in the field today. You'll learn about important features in APEX 5.0, and how those can be applied to make your development work easier and with greater impact on your business. Oracle Application Express (APEX) is an entirely web-based development framework that is built into every edition of Oracle Database. The framework rests upon Oracle's powerful PL/SQL language, enabling power users and developers to

rapidly develop applications that easily scale to hundreds, even thousands of concurrent users. APEX has seen meteoric growth and is becoming the tool of choice for ad-hoc application development in the enterprise. The many authors of Expert Oracle Application Express, 2nd Edition build their careers around APEX. They know what it takes to make the product sing—developing secure applications that can be deployed globally to users inside and outside a large enterprise. The authors come together in this book to share some of their deepest and most powerful insights into solving the difficult problems surrounding globalization, configuration and lifecycle management, and more. New in this edition for APEX 5.0 is coverage of Oracle REST Data Services, map integration, jQuery with APEX, and the new Page Designer. You'll learn about debugging and performance, deep secrets to customizing your application u ser interface, how to secure applications from intrusion, and about deploying globally in multiple languages. Expert Oracle Application Express, 2nd Edition is truly a book that will move you and your skillset a big step towards the apex of Application Express development. Contains all-new content on Oracle REST Data Services, jQuery in APEX, and map integration Addresses globalization and other concerns of enterprise-level development Shows how to customize APEX for your own application needs

Becoming a Salesforce Certified Technical Architect Tameem Bahri 2021-02-12 Design and build high-performance, secure, and scalable Salesforce solutions to meet business demands and gain practical experience using real-world scenarios by creating engaging end-to-end solution presentations Key Features • Learn common integration, data migration, and security patterns for designing scalable and reliable solutions on the Salesforce Lightning platform • Build an end-to-end delivery framework pipeline for delivering successful projects within specified timelines • Gain access to an exclusive book club of skilled Salesforce professionals, to discuss ideas, best practices, and share experiences of designing modern solutions using Salesforce Book Description Salesforce Certified Technical Architect (CTA) is the ultimate certification to validate your knowledge and skills when it comes to designing and building high-performance technical solutions on the Salesforce platform. The CTA certificate is granted after successfully passing the CTA review board exam, which tests your platform expertise and soft skills for communicating your solutions and vision. You'll start with the core concepts that every architect should master, including data lifecycle, integration, and security, and build your aptitude for creating high-level technical solutions. Using real-world examples, you'll explore essential topics such as selecting systems or components for your solutions, designing scalable and secure Salesforce architecture, and planning the development lifecycle and deployments. Finally, you'll work on two full mock scenarios that simulate the review board exam, helping you learn how to identify requirements, create a draft solution, and combine all the elements together to create an engaging story to present in front of the board or to a client in real life. By the end of this Salesforce book, you'll have gained the knowledge and skills required to pass the review board exam and implement architectural best practices and strategies in your day-to-day work. What you will learn • Explore data lifecycle management and apply it effectively in the Salesforce ecosystem • Design appropriate enterprise integration interfaces to build your connected solution • Understand the essential concepts of identity and access management • Develop scalable Salesforce data and system architecture • Design the project environment and release strategy for your solution • Articulate the benefits, limitations, and design considerations relating to your solution • Discover tips, tricks, and strategies to prepare for the Salesforce CTA review board exam Who this book is for This book is for Salesforce architects who want to become certified technical architects by learning how to design secure and scalable technical solutions for their organizations. A solid understanding of the Salesforce platform is required, ideally combined with 3 to 5 years of practical experience as an application architect, system architect, enterprise architect, or solution architect. Table of Contents • Starting Your Journey as a CTA • Core Architectural Concepts - Data • Core Architectural Concepts - Integration and Cryptography • Core Architectural Concepts - Identity and Access Management • Developing a Scalable System Architecture • Formulating a Secure Architecture in Salesforce • Designing a Scalable Salesforce Data Architecture • Creating a Lean Solution Architecture • Forging an Integrated Solution • Development Life Cycle and Deployment Planning • Communicating and Socialising Your Solution • Practice the Review Board - First Mock (N.B. Please use the Look Inside option to see further chapters)

Learning Force.com Application Development Chamil Madusanka 2015-04-27 If you are a developer

who wants to learn how to develop and deploy applications from the Salesforce.com platform, then this book is for you. No prior knowledge of Salesforce is necessary.

Learning Apex Programming Matt Kaufman 2015-01-31 If you are a developer who has some object-oriented programming experience, Learning Apex Programming is the perfect book for you. This book is most appropriate for developers who wish to gain an understanding of the Force.com platform and how to use Apex to create business applications.

Professional Heroku Programming Chris Kemp 2013-01-22 A complete guide to building and deploying web apps withHeroku A cloud application platform, Heroku is currently the onlyapproved platform for creating apps within Facebook, and its numberof users is growing at rapid pace. However, there are very fewbooks on the market that offer professional-level coverage of thisplatform, until now. The author duo begins with an introduction tothe Heroku platform and its associated core concepts and then goeson to explain how writing for this platform differs from that oftraditional development systems. Example applications, additionalresources, and advice for your next steps round out this resource,making it a thorough, indispensable guide. Features information not found anywhere else, as both authorswork for Heroku Explains the inner workings of Heroku with special emphasisplaced on building web and mobile applications Introduces GIT-based development workflow and the process modelwithin the Heroku platform Details coding, building, deploying, and scaling effectivelyusing the Heroku tool base Providing you with fully functional code and downloadable codeexamples, Professional Heroku Programming is your completeguide to mastering this platform.

Apex Design Patterns Anshul Verma 2016-04-20 Harness the power of Apex design patterns to build robust and scalable code architectures on the Force.com platformAbout This Book- Apply Creational, Structural and behavioural patterns in Apex to fix governor limit issues.- Have a grasp of the anti patterns to be taken care in Apex which could have adverse effect on the application.- The authors, Jitendra Zaa is a salesforce MVP and Anshul Verma has 12+ years of experience in the area of application development.Who This Book Is ForIf you are a competent developer with working knowledge of Apex, and now want to deep dive into the world of Apex design patterns to optimize the application performance, then this book is for you. Prior knowledge of Salesforce and Force.com platform is recommended.What You Will Learn- Apply OOPs principal in Apex to design a robust and efficient solution to address various facets to a business problem- Get to grips with the benefits and applicability of using different design patterns in Apex- Solve problems while instantiating, structuring and giving dynamic behavior to Apex classes- Understand the implementation of creational, structural, behavioral, concurrency and anti-patterns in your application- Follow the Apex best practices to resolve governor limit issues- Get clued up about the Inheritance, abstract classes, polymorphism in Apex to deal with the object mechanism- Master various design patterns and determine the best out of them- Explore the anti patterns that could not be applied to Apex and their appropriate solutionsIn DetailApex is an on-demand programming language providing a complete set of features for building business applications - including data models and objects to manage data. Apex being a proprietor programming language from Salesforce to be worked with multi tenant environment is a lot different than traditional OOPs languages like Java and C#. It acts as a workflow engine for managing collaboration of the data between users, a user interface model to handle forms and other interactions, and a SOAP API for programmatic access and integration.Apex Design Patterns gives you an insight to several problematic situations that can arise while developing on Force.com platform and the usage of Design patterns to solve them. Packed with real life examples, it gives you a walkthrough from learning design patterns that Apex can offer us, to implementing the appropriate ones in your own application. Furthermore, we learn about the creational patterns that deal with object creation mechanism and structural patterns that helps to identify the relationship between entities. Also, the behavioural and concurrency patterns are put forward explaining the communication between objects and multi-threaded programming paradigm respectively. We later on, deal with the issues regarding structuring of classes, instantiating or how to give a dynamic behaviour at a runtime, with the help of anti-patterns. We learn the basic OOPs principal in polymorphic and modular way to enhance its capability. Also, best practices of writing Apex code are explained to differentiate between the implementation of appropriate patterns. This book will also explain some unique patterns that could be applied to get around governor limits.By the end

of this book, you will be a maestro in developing your applications on Force.com for SalesforceStyle and approachThis book is a step-by-step guide, complete with well-tested programs and real world situations to solve your common occurring problems in Apex design by using the anti-patterns. It gets crackling from exploring every appropriate solution to comparing the best one as per OOps principal.

ARM System Developer's Guide Andrew Sloss 2004-05-10 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.

Visualforce Developer's Guide Chamil Madusanka 2013-09 This is a mini tutorial guide that discusses the most important and the most frequently used technical aspects of Visualforce development, thereby making it a perfect companion for Visualforce developers.This book is for Visualforce developers who are looking for a pocket guide that will resolve their most frequently faced issues.

Apex Developer Guide Zanis Khan 2019 Master the Apex object oriented programming language in this video series from Apex expert Zanis Khan. Click here to watch all of Zanis' other videos on O'Reilly . There are 15 topics within this Apex video series: Introducing Apex . This first topic in the Apex programming video series provides an overview to Apex. Learn about Apex functionality, architecture, and use cases. Follow along with Zanis to install the Developer Edition of Salesforce. Write your first Apex program. Apex Data Types . This second topic in the Apex programming video series explains data types. Follow along with Zanis during the hands-on part of this video and learn how to use primitive (integer, double, long, date, datetime, string, ID, Boolean), collection, sObject, Enums, and Class data types. Apex Variables . This third topic in the Apex programming video series explains variables in detail. Follow along with Zanis during the hands-on part of this video and practice creating variables. Realize how similar the variable concept is between Java and Apex. Apex Arrays . This fourth topic in the Apex programming video series explores arrays. Follow along with Zanis during the hands-on part of this video and practice creating arrays and inserting and accessing elements of an array. Apex Constants . This fifth topic in the Apex programming video series explains constants, which are variables which do not change their value once assigned. Follow along with Zanis during the hands-on part of this video and learn how to create and use constants. Decision Making in Apex . This sixth topic in the Apex programming video series explains decision making in Apex. Follow along with Zanis during the hands-on part of this video and practice creating IF and IF-ELSE statements in Apex. Apex Loops . This seventh topic in the Apex programming video series covers loops. Follow along with Zanis during the hands-on part of this video and learn when to use loops and how to create FOR, WHILE, and DO-WHILE loops in Apex. Apex Classes . This eighth topic in the Apex programming video series focuses on classes. Follow along with Zanis during the hands-on part of this video and learn how to create and use classes and their modifiers (Private, Public, and Global) in Apex. Apex Methods . This ninth topic in the Apex programming video series explains methods (also known as functions). Follow along with Zanis during the hands-on part of this video and practice writing public and

protected methods, and...