Force.com Apex Code Developer's Guide

Forcecom Apex Code Developers Guide

Chamil Madusanka

Forcecom Apex Code Developers Guide:

<u>Development with the Force.com Platform</u> Jason Ouellette,2013 Master Force com Today s Fastest Most Flexible Cloud Development Platform With Salesforce com s Force com platform you can build and deploy powerful cloud based enterprise applications faster than ever before Now Jason Ouellette gives you all the practical technical guidance you need to make the most of the newest Force com releases in your own custom cloud applications Throughout he adds new code and updated best practices for rapidly prototyping building and testing production quality Force com solutions This edition s extensive new coverage includes Developer Console JSON Streaming and Tooling APIs Bulk API Force com Canvas REST integration support for Web MVC frameworks Dynamic Apex and Visualforce and an all new chapter on mobile user interfaces Ouellette covers the entire platform UIs database design analytics security and many other topics His code examples emphasize maintainability flexibility and seamless integration and you can run and adapt all of them with a free Force com Developer Edition account Coverage includes Leveraging Force com s customizable infrastructure to deliver advanced Platform as a Service PaaS solutions Understanding Force com s unique processes tools and architecture Developing a complete application from requirements and use cases through deployment Using the Force com database as a framework for highly flexible maintainable applications Applying Force com s baked in security including user identity data ownership and fine grained access control Constructing powerful business logic with Apex SOQL and SOSL Adopting asynchronous actions Single Page Applications and other advanced features in Web user interfaces Building intuitive user interfaces with Visualforce and extending them to public facing websites and mobile devices Creating smartphone tablet friendly apps with HTML5 and Visualforce Performing massive data intensive tasks offline with Batch Apex Using Force com integration options including REST SOAP Canvas and the Streaming Bulk Tooling and Metadata APIs Developing internal social applications with Force com s Chatter collaboration tools If you re already building Web or mobile applications take your next giant step into enterprise cloud development with Development with the Force com Platform Third Edition All code examples in this book are available on Github at http goo gl fjRqMX and as a Force com IDE project on Github at https github com jmouel dev with force 3e *Salesforce Handbook* Wes Nolte,Jeff Douglas,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   Teach Yourself VISUALLY Salesforce.com Justin Davis,Richard Wentk,2013-06-04 Provides clear step by step instructions for tackling more than 130 Salesforce com tasks Each task based spread covers a single technique sure to help you get up and running on Salesforce com in no time   Developer's Guide to the Force.com Platform Rick Greenwald,2008   *The developer's guide to the Force.com platform* Rick Greenwald,2008   **Development with the Force.com Platform** Jason Ouellette,2013-11-12 Master Force com Today s Fastest Most Flexible Cloud Development Platform With Salesforce com s Force com platform you can build and deploy powerful cloud based enterprise applications faster than ever before Now Jason Ouellette gives you all the practical technical guidance you need to make the most of the newest Force com releases in your own custom cloud applications Throughout he adds new code and updated best practices for rapidly prototyping building and testing production quality Force com solutions This edition s extensive new coverage includes Developer Console JSON Streaming and Tooling APIs Bulk API Force com Canvas REST integration support for Web MVC frameworks Dynamic Apex and Visualforce and an all new chapter on mobile user interfaces Ouellette covers the entire platform UIs database design analytics security and many other topics His code examples emphasize maintainability flexibility and seamless integration and you can run and adapt all of them with a free Force com Developer Edition account Coverage includes Leveraging Force com s customizable infrastructure to deliver advanced Platform as a Service PaaS solutions Understanding Force com s unique processes tools and architecture Developing a complete application from requirements and use cases through deployment Using the Force com database as a framework for highly flexible maintainable applications Applying Force com s baked in security including user identity data ownership and fine grained access control Constructing powerful business logic with Apex SOQL and SOSL Adopting asynchronous actions Single Page Applications and other advanced features in Web user interfaces Building intuitive user interfaces with Visualforce and extending them to public facing websites and mobile devices Creating smartphone tablet friendly apps with HTML5 and Visualforce Performing massive data intensive tasks offline with Batch Apex Using Force com integration options including REST SOAP Canvas and the Streaming Bulk Tooling and Metadata APIs Developing internal social applications with Force com s Chatter collaboration tools If you re already building Web or mobile applications take your next giant step into enterprise cloud development with Development with the Force com Platform Third Edition All code examples in this book are available on Github at http goo gl fjRqMX and as a Force com IDE project on Github at https github com jmouel dev with force 3e   **Mastering Application Development with Force.com** Kevin J. Poorman,2016-01-28 Design and develop state of the art applications using Force com s powerful development platform About This Book Flaunt your skillsets by developing complex applications that include demanding concepts such as triggers Visualforce controllers batch jobs and Lightning components Earn the gratitude of your colleagues by structuring a project so that multiple developers can work independently of each other Kevin Poorman the author of the book and a Force com MVP shares his

years of Force com knowledge and experience with you through the medium of telling examples Who This Book Is For If you re a Force com developer with a fundamental understanding of Apex and JavaScript but now want to enhance your skills with tips tricks and guidance on the best architectural and engineering practices then this book is for you What You Will Learn Creating triggers and the best practices for writing them Developing a number of Visualforce controllers and extensions Integrating third party web APIs into your Apex code Writing unit tests that cover testing bulk safety user and profile settings and negative tests Creating a Lightning component for use in Salesforce1 Getting acquainted with various methods for deploying metadata between orgs Using the Rest sObject API for access to Salesforce objects and data using the REST methodology Learning about overarching architectural considerations such as naming conventions testing practices and data modeling practices In Detail Force com is an extremely powerful scalable and secure cloud platform delivering a complete technology stack ranging from databases and security to workflow and the user interface With salesforce com s Force com cloud platform you can build any business application and run it on your servers The book will help you enhance your skillset and develop complex applications using Force com It gets you started with a quick refresher of Force com s development tools and methodologies and moves to an in depth discussion of triggers bulkification DML order of operations and trigger frameworks Next you will learn to use batchable and schedulable interfaces to process massive amounts of information asynchronously You will also be introduced to Salesforce Lightning and cover components including backend apex controllers frontend JavaScript controllers events and attributes in detail Moving on the book will focus on testing various apex components what to test when to write the tests and most importantly how to test Next you will develop a changeset and use it to migrate your code from one org to another and learn what other tools are out there for deploying metadata You will also use command line tools to authenticate and access the Force com Rest sObject API and the Bulk sObject API additionally you will write a custom Rest endpoint and learn how to structure a project so that multiple developers can work independently of each other without causing metadata conflicts Finally you will take an in depth look at the overarching best practices for architecture structure and engineering code applications on the Force com platform Style and approach A step by step tutorial with plenty of tips and tricks that will help you develop complex Force com applications   Salesforce Coding Genius James Anderson,Markus Koche,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   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

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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 p 4 of cover *Salesforce Coding Genius* Wood,Markus Koche,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 The framework is detailed below Dont forget to share your story with us We would love to hear from you how this book helps you NOTE Due to some technical glitches initial version of this book doesnt print examples so we have updated the book with latest version For any query or concern drop us a mail on info expounddigital com   **Apex Design Patterns** Jitendra Zaa,Anshul Verma,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   **Advanced Apex Programming for Salesforce. Com and Force. Com** Dan Appleman,2015-08-31 Beyond the Force com documentation Third 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 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 This third edition contains updates through Summer 15 API 34 along with significant new content on asynchronous design patterns optimization and maintaining Apex applications

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

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is required **Learning Apex Programming** Matt Kaufman,Michael Wicherski,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 **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 *Practical Salesforce.com Development Without Code* Philip Weinmeister,2014-12-31 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 Practical Salesforce com Development Without Code 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 mantra Salesforce com expert Phil Weinmeister 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 By adopting Practical Salesforce com Development Without Code as your guide you will learn how to deliver business solutions within Salesforce com by combining analysis creativity and logic with some of its core elements including validation rules workflow rules and formula fields In addition Weinmeister dissects and explains the most useful functions and features for developers and shows you how to use them Among other things you will learn how to Build objects fields and relationships to establish a sensible data model Automate business processes by using workflow rules and flows Visual Workflow Utilize functions and develop formulas effectively for a variety of business needs Develop intricate approval processes to handle exception scenarios Employ publisher actions to drive additional functionality from the Chatter feed Manage your data using Data Loader Best of all

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Forcecom Apex Code Developers Guide Introduction

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