

# APEX DEVELOPER GUIDE

Apex is a strongly typed, object-oriented programming language that allows developers to execute flow and transaction control statements on the Salesforce Platform server, in conjunction with calls to the API. This guide introduces you to the Apex development process and provides valuable information on learning, writing, deploying and testing Apex.

For reference information on Apex classes, interfaces, exceptions and so on, see [Apex Reference Guide](#).

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### [Apex Release Notes](#)

Use the Salesforce Release Notes to learn about the most recent updates and changes to Apex.

### [Getting Started with Apex](#)

Learn about the Apex development lifecycle. Follow a step-by-step tutorial to create an Apex class and trigger, and deploy them to a production organisation.

### [Writing Apex](#)

Apex is like Java for Salesforce. It enables you to add and interact with data in the Lightning Platform persistence layer. It uses classes, data types, variables, and if-else statements. You can make it execute based on a condition, or have a block of code execute repeatedly.

### [Running Apex](#)

You can access many features of the Salesforce user interface programmatically in Apex, and you can integrate with external SOAP and REST Web services. You can run Apex code using a variety of mechanisms. Apex code runs in atomic transactions.

### [Debugging, Testing, and Deploying Apex](#)

Develop your Apex code in a sandbox and debug it with the Developer Console and debug logs. Unit-test your code, then distribute it to customers using packages.

### [Apex Reference](#)

In Summer '21 and later versions, Apex reference content is moved to a separate guide called the [Apex Reference Guide](#).

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## Apex Release Notes

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Use the Salesforce Release Notes to learn about the most recent updates and changes to Apex.

For Apex updates and changes that impact the Salesforce Platform, see the [Apex Release Notes](#).

For new and changed Apex classes, methods, exceptions and interfaces, see [Apex: New and Changed Items](#) in the Salesforce Release Notes.

## Getting Started with Apex

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Learn about the Apex development lifecycle. Follow a step-by-step tutorial to create an Apex class and trigger, and deploy them to a production organisation.

# Apex Developer Guide

**Richard Johnson**



## Apex Developer Guide:

*Mastering Apex Programming* Paul Battisson, Mike Wheeler, 2020-11-20 Get to grips with the advanced features of Apex programming for Salesforce developers using this comprehensive guide Key Features Discover how to build reliable applications with Apex by avoiding common mistakes and pitfalls Learn how to use the different asynchronous programming tools in Apex Profile and improve the performance of your Apex code Book 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 learn Understand common coding mistakes in Apex and how to avoid them using best practices Find out how to debug a Salesforce Apex application effectively Explore different asynchronous Apex options and their common use cases Discover tips to work effectively with platform events Develop custom Apex REST services to allow inbound integrations Build complex logic and processes on the Salesforce platform Who 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 [Mastering Apex Programming](#) Paul Battisson, 2023-11-29 Advance your Apex programming skills to the next level with best practices proven techniques and practical code samples with this updated edition along with the most recent advancements in Apex Key Features Understand the various integration asynchronous processing options in Apex and how to use them to scale your application Learn how to integrate external systems with Apex through both inbound and outbound integrations Profile and improve the performance of your Apex code Book Description Applications built on the Salesforce platform are now a key part of many organizations IT systems with more complex and integrated solutions being delivered every day As a Salesforce developer working with Apex it is important to understand the range and variety of tools at your disposal how and when to use them and what the best practices are This revised second edition includes a complete restructuring and five new chapters filled with detailed content on the latest

Salesforce innovations including integrating with DataWeave in Apex and utilizing Flow and Apex together to build scalable applications with Administrators This Salesforce book starts with a discussion around common mistakes debugging exception handling and testing The second section focuses on the different asynchronous Apex programming options to help you build more scalable applications before the third section focuses on integrations including working with platform events and developing custom Apex REST web services Finally the book finishes with a section dedicated to profiling and improving the performance of your Apex including architecture With code examples used to facilitate discussion throughout by the end of the book you will be able to develop robust and scalable applications in Apex with confidence What you will learn Understand common Apex mistakes and how to avoid them through best practices Learn how to debug Apex code effectively Discover the different asynchronous Apex options common use cases and best practices Extend the capabilities of the Salesforce platform with the power of integrations Parse and manipulate data easily with the use of DataWeave functions Develop custom Apex REST services to allow inbound integrations Profile and improve the performance of your Apex code Who this book is for Developers who have basic to intermediate Apex programming knowledge and are interested in mastering Apex programming while exploring the Salesforce com platform This book is also ideal for experienced Java or C developers who are moving to Apex programming for developing apps on the Salesforce platform Basic Apex programming knowledge is assumed

**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 **Apex Developer - 400+ Interview Questions & Answers | Perfect Guide for Success** CloudRoar Consulting Services,101-01-01 Are you aiming to progress into a leadership role in IT service management particularly aligned with strategy transformation and governance 350 Interview Questions Answers for ITIL 4 Strategic Leader PeopleCert AXELOS ITIL 4 Strategic Leader Certification Referenced by CloudRoar Consulting Services is your definitive guide This book is tailored to help you build confidence and depth in the skills that organisations expect from strategic IT leadership without being a pure exam cram guide ITIL 4 Strategic Leader SL a designation by PeopleCert AXELOS recognizes professionals who lead in digitally enabled services and demonstrates how IT directs shapes and supports business strategy peoplecert org 2axelos com 2 While this book does not replace official training or exams its Q A sets reflect knowledge areas from the SL stream especially the two modules Strategist Direct Plan Improve DPI and Leader Digital IT Strategy DITS peoplecert org 1 Inside you ll find 350 expertly crafted questions with model answers covering Digital IT Strategy Alignment How to translate business goals into IT strategy defining digital visions handling disruption innovation and emerging technologies Direct Plan Improve Practices Continual improvement governance risk management decision making structures strategic planning metrics performance measurement Governance Risk Compliance Establishing governance frameworks balancing risk and opportunity regulatory legal compliance audit trails Value Streams Service Value System SVS Understanding the four dimensions of service management value streams service value chain integration of practices to deliver value Leadership Change Culture Leading organisational change influencing culture stakeholder engagement communication coaching future leaders Strategic Decision Making Metrics Key performance indicators balanced scorecards risk quantification prioritizing initiatives investment decision trade offs Driving Transformation Innovation Leveraging technology trends digital disruption cloud AI automation in strategy scalability agility With these Q A you ll be able to diagnose your readiness focus your self study and prepare to articulate both conceptual understanding and practical application in interviews Whether for roles such as IT Strategy Leader IT Director Digital Transformation Lead or for strengthening leadership capability this book helps you shine Because it references the prestigious PeopleCert AXELOS ITIL 4 Strategic Leader scheme it carries credibility in job interviews hiring panels CloudRoar Consulting Services invites you to build not just knowledge but strategic insight Empower your career Lead with clarity Transform with confidence **Apex Development Specialist - 400+ Interview Questions & Answers | Perfect Guide for Success** CloudRoar Consulting Services,101-01-01 Are you aiming to progress into a leadership role in IT service management particularly aligned with

strategy transformation and governance 350 Interview Questions Answers for ITIL 4 Strategic Leader PeopleCert AXELOS ITIL 4 Strategic Leader Certification Referenced by CloudRoar Consulting Services is your definitive guide This book is tailored to help you build confidence and depth in the skills that organisations expect from strategic IT leadership without being a pure exam cram guide ITIL 4 Strategic Leader SL a designation by PeopleCert AXELOS recognizes professionals who lead in digitally enabled services and demonstrates how IT directs shapes and supports business strategy peoplecert org 2axelos com 2 While this book does not replace official training or exams its Q A sets reflect knowledge areas from the SL stream especially the two modules Strategist Direct Plan Improve DPI and Leader Digital IT Strategy DITS peoplecert org 1 Inside you ll find 350 expertly crafted questions with model answers covering Digital IT Strategy Alignment How to translate business goals into IT strategy defining digital visions handling disruption innovation and emerging technologies Direct Plan Improve Practices Continual improvement governance risk management decision making structures strategic planning metrics performance measurement Governance Risk Compliance Establishing governance frameworks balancing risk and opportunity regulatory legal compliance audit trails Value Streams Service Value System SVS Understanding the four dimensions of service management value streams service value chain integration of practices to deliver value Leadership Change Culture Leading organisational change influencing culture stakeholder engagement communication coaching future leaders Strategic Decision Making Metrics Key performance indicators balanced scorecards risk quantification prioritizing initiatives investment decision trade offs Driving Transformation Innovation Leveraging technology trends digital disruption cloud AI automation in strategy scalability agility With these Q A you ll be able to diagnose your readiness focus your self study and prepare to articulate both conceptual understanding and practical application in interviews Whether for roles such as IT Strategy Leader IT Director Digital Transformation Lead or for strengthening leadership capability this book helps you shine Because it references the prestigious PeopleCert AXELOS ITIL 4 Strategic Leader scheme it carries credibility in job interviews hiring panels CloudRoar Consulting Services invites you to build not just knowledge but strategic insight

Empower your career Lead with clarity Transform with confidence      **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

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*ChatGPT for Accelerating Salesforce Development* Andy Forbes, Philip Safir, Joseph Kubon, Francisco Fálder, 2023-12-29 Harness ChatGPT for streamlined flows effective configuration proficient code writing and enhanced project activities Key Features Improve process quality and reduce costs by incorporating ChatGPT into your Salesforce projects Optimize project workflows and align technical capabilities with business goals Integrate ChatGPT's strengths with Salesforce expertise to innovate business analysis coding and testing approaches Purchase of the print or Kindle book includes a free PDF eBook Book Description Authored by a team of Salesforce masters

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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      *Professional Developer's Guide to Domino* Jane Calabria,Rob Kirkland,1997 The definitive tutorial and reference for Domino developers this is more than an installation or implementation guide The book shows Domino administrators how to build interactive Web content with Domino tools replicate information using the new Domino



Weblicator tool and get a site up and running quickly The CD ROM includes Domino add ons and utilities      **Developer's Guide to Computer Game Design** John Scott Lewinski,2000 A book CD ROM package on computer game design featuring interviews with 13 designers writers and other experts in the industry Walks through steps needed to get ideas on paper and offers an insider s view on how games come together Overviews different interactive writing and design software programs and discusses the newest game technology and what the future holds for both console and computer gaming systems The author is a computer game designer The CD ROM contains demo versions of games and software Annotation copyrighted by Book News Inc Portland OR      *Web Developer's Guide to Visual J++ & ActiveX* Trevor Harmon,1996 Do you choose the simplicity of Java or the power of ActiveX Why decide at all With Visual J you can harness the strength of both technologies Web Developer s Guide to Visual J ActiveX shows you how to integrate ActiveX controls with Java applets give your code direct access to hardware and bring the world of ActiveX to your doorstep      **Apex Trigger Mastery in Salesforce Development** Vijay Kumar, Apex Trigger eBook Overview Welcome to eBook Apex Trigger Mastery in Salesforce Development We are excited to help you through the complex world of Apex Triggers in this extensive online eBook Whether you re a professional developer trying to improve your abilities or someone who is excited to begin your Salesforce journey this eBook will equip you with the knowledge and practical experience required to become an expert in Apex Trigger In this eBook I have covered complete syllabus of Salesforce Apex Trigger with real time project example step by step for beginner to advanced label Where you will be learn advanced technical scenarios based on live demo projects example of Apex Trigger in Salesforce This eBook is intended for developers who want to learn how to automated business processes with Apex triggers in Salesforce It is suitable for developers who have experience with JavaScript and web development and want to learn Apex Trigger Development in Salesforce It is also suitable for experienced Salesforce developers who want to learn how to use the Apex Trigger to build more efficient automated business processes with Apex triggers in Salesforce I have taken care of who are brand new to start Salesforce Career as a developer and want to grow their Career in Salesforce application and development Course Structure Introduction to Apex Triggers Overview of triggers and their significance in Salesforce architecture Fundamentals of Trigger Development Syntax structure and basic trigger operations Real Time Scenarios and Projects Apply your skills in hands on projects simulating real world scenarios Advanced Techniques and Best Practices Optimize your code for efficiency and scalability Troubleshooting and Debugging Learn essential techniques to identify and fix issues in your trigger code Why Choose Mastering Apex Triggers Practical hands on approach with real world scenarios Comprehensive coverage from fundamentals to advanced techniques Expert guidance from seasoned Salesforce developers Access to a vibrant community for networking and support What are the requirements or prerequisites for taking this eBook Basic Knowledge of Salesforce Admin Concepts Who is this course for Software Professional Developer Salesforce Administrator This course prepared for IT Professional and working on live project on office Students who learning

Salesforce Administrator Students who learning Salesforce development This eBook prepared for that students who learning from internet and practice on his computer What will you be learn after taking this eBook I created Twelve Chapters to Complete the syllabus of Apex Trigger Mastery in Salesforce Development Topics are Apex Trigger in Salesforce Chapter 1 Introduction of Apex Trigger What is Apex Trigger in Salesforce Importance of Apex Trigger in Salesforce Development Chapter 2 Getting Started with Apex Triggers Understanding Triggers in Salesforce Types of Triggers Triggers Lifecycle Chapter 3 Apex Trigger Syntax and Structure Basic Syntax Trigger Context Variables Trigger Execution Order Chapter 4 Writing Effective Triggers Best Practices for Apex Trigger Development Bulkification Techniques Avoiding Common Pitfalls Chapter 5 Trigger Events and Use Cases Before and After Triggers Trigger Events and When to Use Them Real world Use Cases and Examples Chapter 6 Working with Trigger Context Accessing and Utilizing Trigger Context Variables Trigger Context in Different Trigger Types Handling Trigger Context Exceptions Chapter 7 Advanced Apex Trigger Concepts Trigger Frameworks Dynamic Trigger Handling Asynchronous Trigger Execution Chapter 8 Testing and Debugging Triggers Unit Testing Strategies Debugging Techniques Best Practices for Trigger Testing Chapter 9 Deployment and Version Control Deploying Triggers to Salesforce Version Control Best Practices Collaborative Development Strategies Chapter 10 Optimization and Performance Tuning Apex Trigger Performance Considerations Profiling and Identifying Bottlenecks Strategies for Optimization Chapter 11 Future Trends and Updates Latest Trends in Apex Trigger Development Salesforce Updates and Their Impact Staying Ahead in the Apex Trigger Landscape Chapter 12 Exception Handling in Apex Triggers Error Identification Try Catch Blocks Error Messaging Rollback and Recovery Logging and Monitoring Governor Limits Consideration Unit Testing     [Simulations and Games](#) Donald R. Cruickshank, Ross Telfer, 1979     [Salesforce Platform Developer I Certification Guide](#) Jan Vandevelde, Gunther Roskams, 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 learnSolve sample questions and mock tests and work with exam patternsGain an understanding of declarative Salesforce tools such as Process Builder flows and many moreCode in Salesforce using the Developer Console and IDEsGrasp the basics of object oriented programmingWrite Apex classes Visualforce pages and Apex test classes with easy to follow stepsExplore the different deployment tools that you can use to push metadata to different environmentsBuild custom declarative apps and programs on Force com platformsWho 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

**Developer's Guide to the Force.com Platform** Rick Greenwald,2008      GEN Guide to Biotechnology Companies ,1996      **Title Index, ERIC ED Accessions File** ERIC Processing and Reference Facility,1966      Apex Programming Solutions Richard Johnson,2025-06-18

Apex Programming Solutions Unlock the full power of Salesforce development with Apex Programming Solutions the definitive guide for architects developers and technical leads building next generation enterprise solutions on the Salesforce platform This comprehensive volume begins with an expert exploration of the Apex language diving deep into advanced data types object oriented patterns robust exception handling annotations and modular design techniques that underpin scalable and maintainable code It then rigorously addresses data management at scale from SOQL SOSL query mastery to secure dynamic queries bulk processing and seamless integration with external data sources ensuring every reader is equipped for complex high volume business environments The book progresses to dissect industry focused topics essential for today s Salesforce professionals including asynchronous programming secure solution construction enterprise integration and advanced automated testing Learn proven asynchronous patterns with Batch Apex Queueables and event driven architectures secure your applications through field level security compliance driven design encrypted data management and secure credential storage and maximize automation with sophisticated testing strategies continuous integration code quality enforcement and enterprise DevOps best practices Each chapter pairs conceptual depth with practical guidance empowering you to meet regulatory performance and operational excellence standards Finally Apex Programming Solutions future proofs your skillset by covering architectural patterns for scalable systems modern DevOps workflows and emerging trends like Salesforce Functions AI integrations and multi cloud interoperability Rich with best practices real world patterns and actionable insights this book is an indispensable resource for anyone intent on mastering the art and science of developing robust secure and adaptable solutions on the Salesforce platform

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