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.

IN THIS SECTION:

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.

Appendices

Glossary

Apex Release Notes

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

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](#)

Hussin A.Rothana

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 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   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 you 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 DescriptionApplications 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 forDevelopers 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

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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   *PDII Practice Questions for Salesforce Platform Developer II Certification* Dormouse Quillsby, NotJustExam PDII Practice Questions for Salesforce Platform Developer II Certification Struggling to find quality study materials for the Salesforce Certified Platform Developer II PDII exam Our question bank offers over 280 carefully selected practice questions with detailed explanations insights from online discussions and AI enhanced reasoning to help you master the concepts and ace the certification Say goodbye to inadequate resources and confusing online answers we re here to transform your exam preparation experience Why Choose Our PDII Question Bank Have you ever felt that official study materials for the PDII exam don t cut it Ever dived into a question bank only to find too few quality questions Perhaps you ve encountered online answers that lack clarity reasoning or proper citations We understand your frustration and our PDII certification prep is designed to change that Our PDII question bank is more than just a brain dump it s a comprehensive study companion focused on deep understanding not rote memorization With over 280 expertly curated practice questions you get Question Bank Suggested Answers Learn the rationale behind each correct choice Summary of Internet Discussions Gain insights from online conversations that break down complex topics AI Recommended Answers with Full Reasoning and Citations Trust in clear accurate explanations powered by AI backed by reliable references Your Path to Certification Success This isn t just another study guide it s a complete learning tool designed to empower you to grasp the core concepts of Platform Developer II Our practice questions prepare you for every aspect of the PDII exam ensuring you re ready to excel Say goodbye to confusion and hello to a confident in depth understanding that will not only get you certified but also help you succeed long after the exam is over Start your journey to mastering the Salesforce Certified Platform Developer II certification today with our PDII question bank Learn more Salesforce Certified Platform Developer II https trailhead salesforce com en credentials platformdeveloperii   *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 DescriptionAuthored by a team of Salesforce masters

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