Apex & Visualforce Controllers

Duration
5 days

Delivery Format
Classroom or virtual classroom

Certification
Apex & Visualforce Controllers is recommended as preparation for the Salesforce Certified Advanced Developer exam.

This comprehensive, hands-on course is perfect for developers who want a deep dive into using Apex to build, extend, and deploy Salesforce applications on the Force.com platform. This course also covers Visualforce controllers, which allow developers to specify what happens when a user interacts with the components specified in associated Visualforce markup.

Who should take this course?

Apex & Visualforce Controllers
Designed for developers needing to extend the functionality of their Salesforce applications programmatically. Developers should have a thorough understanding of object-oriented programming concepts as well as experience customizing Salesforce applications using the Force.com declarative capabilities.

It is recommended that developers without object-oriented programming experience attend Introduction to Object-Oriented Programming using Apex (ADM231).

Prerequisites

- Experience building applications using the Force.com declarative features or completion of Building Applications with Force.com (DEV401).
- Completion of the eLearning course "Managing Development with Force.com." Access to the eLearning will be provided after you register for the Apex & Visualforce Controllers course.
  You should complete the eLearning before attending class.
- Experience with Visualforce. You can gain Visualforce experience by completing the "Getting Started with Visualforce" eLearning course available via http://help.salesforce.com and the publicly available, online Visualforce Workbook.

What you will learn

When you complete this course, you'll be able to:

- Write, test, and deploy Apex code, including triggers, controllers, ad-hoc statements, and batch.
- Use development tools, including the Force.com IDE, to author Apex.
- Create Apex web services and callouts to external web services.
- Create, insert, update, delete and retrieve application data using DML,
- SOQL, and SOSL.
- Send and receive emails using Apex.
- Create multi-page wizards.

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Modules & Topics

Force.com Code (Apex)

- Describe the features, functionality, and use cases of Apex
- Describe the data types and syntax of Apex
- Describe how multi-tenancy affects Apex
- Write queries and complex joins using SOQL
- Write text-based searches using SOSL
- Manipulate data using Apex DML
- Write Apex triggers to automate code
- Describe the testing requirements of the Force.com platform
- Write Apex tests
- Create Apex web services using REST and SOAP
- Create callouts to external web services
- Send and receive email from Apex
- Write asynchronous Apex (batch, @future, and scheduled)
- Describe the capabilities of custom settings

Visualforce Controllers

- Understand the Visualforce framework, including its advantages and capabilities
- Use expressions to bind data and actions on a page to a controller
- Understand the concepts behind controllers, including their functionality and capabilities
- Create custom controllers and standard controller extensions to incorporate new data and actions into a page
- Understand the security implications of using custom vs. standard controllers
- Implement wizards using custom controllers to handle the state and operations
- Create custom components that use custom controllers
- Test, debug, and deploy controllers

About Salesforce University

Salesforce University offers a comprehensive catalog of courses and certifications to help you administer, develop, and use your organization's Salesforce environment. Whether you need a customized private course for your whole team or an in-depth instructor-led classroom experience for one person, Salesforce University can help you take the next steps on your journey to success. Contact us today to learn how we can help you get the most out of your Salesforce investment.

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