Introduction to Django Training

Duration: **4 Day**

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Overview

The {*training} begins with an introduction to the fundamentals of the Django web application framework, guiding participants step-by-step through the installation process. Together with the instructor, participants will create a simple web application that demonstrates Django's principles and components.

Prerequisites

Recommended Module Combinations

- Combine this course with **Python for Nonprogrammers** or **Python for Programmers** to strengthen your Python skills.
- Follow it up with **Advanced Django** to explore more advanced Django topics.

Who Should Attend

This Django course is designed for both beginners and programmers with some prior experience in Django.

- You should have experience in an object-oriented programming (OOP) language.
- Python knowledge is ideal but not required to get started.
- A basic understanding of web application development with databases is recommended.

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Outline

Covered topics include:

- Software tools for a Django development environment
- Database abstraction (Object Relational Mapper – ORM)
- Creating a model
- Model validation
- Data export and import (via JSON)
- Using ORM from the command line
- Django's built-in admin interface
- Centralized URL definition (Routing)
- Function-based views
- Class-based views
- Creating templates with Django's template engine
- Managing static files in Django
- Managing Django settings
- Debugging techniques
- Logging
- Forms and form validation
- Sending emails from a form
- Pagination
- Authentication
- Sessions and messages
- Security best practices
- Writing custom middleware
- Creating custom tags and filters