Full Stack Web Development with Python and Django (TTPS4860)

Price: 2595

Duration: 5 days

Delivery Methods: Virtual

Overview

Geared for experienced web developers new to Python, Introduction to Full Stack Web Development with Python and Django is a five-day hands-on course that teaches students how to develop Web applications using the Django framework. Students will explore the basics of creating basic applications using the MVC (model-view-controller) design pattern, as well as more advanced topics such as administration, session management, authentication, and automated testing. This comprehensive, practical course provides an in-depth exploration of working with the programming language, not an academic overview of syntax and grammar. Students will immediately be able to use Python to complete tasks in the real world.

Audience Profile

This introductory-level Python course is geared for experienced web developers new to Python who want to use Python and Django for full stack web development projects.

At Course Completion

This course is approximately 40% hands-on, combining expert lecture, real-world demonstrations and group discussions with machine-based practical labs and exercises. Working in a hands-on learning environment, guided by our expert team, attendees will learn to:

· Develop full-stack web sites based on content stored in an RDMS

· Use python data types appropriately

· Define data models

· Understand the architecture of a Django-based web site

· Create Django templates for easy-to-modify views

· Map views to URLs

· Take advantage of the built-in Admin interface

· Provide HTML form processing

Outline

1. The Python Environment

2. Getting Started

3. Flow Control

4. Lists and Tuples

5. Working with Files

6. Dictionaries and Sets

7. Functions

8. Errors and Exception Handling

9. Modules and Packages

10. Classes

11. Django Architecture

12. Getting Started

13. Using cookiecutter

14. Creating models

15. Login for Nothing and Admin for Free

16. Querying Models

17. Views

18. Templates

19. Forms

20. Unit Testing

Prerequisites

This introductory-level Python course is geared for experienced web developers new to Python who want to use Python and Django for full stack web development projects.

Course Schedule

Date	Time	Price	Options

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