

Django: Templates, Models & Forms

Learn to build Django web applications with routing, templates, models and forms, from URL mapping to data validation.

11

MODULES

27

TOPICS

COURSE OVERVIEW

This course covers Django's MVT architecture and setting up a Django project, followed by static and dynamic routing with path converters and URL mapping. It then examines the Django template engine, including variables, tags, loops, conditionals, filters, inheritance and static files. The course continues with Django models, covering field validation and relationships, before addressing Django forms, model forms and operations for creating, retrieving and updating user records.

WHO THIS COURSE IS FOR

Web Developers

Backend Developers

Python Developers

Software Engineers

Application Developers

LEARNING OBJECTIVES

- Describe Django's MVT architecture and project structure
- Configure static and dynamic routing with path converters
- Implement URL mapping across a Django project
- Apply Django template features such as tags, loops and conditionals
- Build template inheritance and manage static files
- Implement Django models with field validation and relationships
- Build and render Django forms, including model forms
- Develop operations to create, retrieve and update user models

11 Modules, 27 Topics

01

Introduction to Django

02

Django MVT Architecture

03

Making Django Project

04

Static and Dynamic Routing

05

Dynamic Routing with Path Converters

06

URL Mapping

07

Templates in Django

TOPICS

- Django Template Engine
- Variables
- Tags and Loops
- Conditionals
- Filters and Comments
- Code Templates in Django
- Relative URLs
- Template Inheritance
- Static File in Django

08

Django Models

TOPICS

Models in Django · Models in Code · Implementing Models · Exploring Model in Admin Interface · Build in Field Validation · Many to one Relationship · Many to Many Relationship · One-to-One Relationship

09

Django Forms

TOPICS

Creating Forms · Rendering Forms · DOM fields · Collecting Data via Django Form · Basic form Validation · Initial from Data · Form Field Widgets and labels · Model Form

10

Operations on Models

TOPICS

Create a User Model · Retrieve and Update the User

11

Written Evaluation in Django

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

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Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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