

Module: Django - web development in Python

In this training, you will learn how to create web applications with Django: Python callbacks, MVT model, routing, models and views, using the ORM, retrieving and validating inputs, scaffolding and the Django administrator, internationalization and deployment.

Prerequisites : Programming concepts, use a programming language.



Ways to take this course: Online Instructor Led
Online self-paced
Video On Demand

Video conference tool : ZOOM

Duration : 28 H (4 days)

OUTLINE

Introduction do Django

- Python
- The Django Framework
- Processing HTTP request
- Structure of a Django project
- The MVT design pattern
- Generate a project (CLI), settings.py
- Django Documentation

Routing, views and templates

- The urls.py
- file Pattern matching in URLs
- Route isolation by application
- Views and HTTP Response
- Create templates
- Filters and tags
- Template inheritance
- Static Resources

Database, ORM

- The Django ORM
- Create a template
- Relations: OneToOne, FK, ManyToMany
- CRUD on models
- SQL Queries
- Using QuerySet
- DB Migrations

Models and Views

- Model in a view
- Models: validation
- Advanced queries
- Stored procedures
- Transaction management

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Forms management

- Form processing
- Form and templates
- Field validation
- Verify a form
- Resources in a form
- Forms and Formset

Django Admin

- Scaffolding
- Generate admin
- Customize pages
- Customize forms
- Use administrator
- Add JavaScript
- Manage roles and users

Internationalize the application

- Internationalization
- Translations
- Enable languages
- User language detection
- Translations in JavaScript

Deployment and maintenance

- The database
- Ansible Automation
- The Docker container
- Integration in Apache.
- WSGI protocol
- Managing static files
- Django-debug-toolbar

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