This course offer Django framework (MTV) training with hands on session using Eclipse+Pydev Environment.

Prerequisite

Advance Python Skills, Object Oriented Programming in Python.

Set up Requirements

Computer with the following software

Tool:Sublime Text Editor +Eclipse + Pydev

Operating System: Ubuntu16.x or MacOS or Windows7/8/10.

Python 2.7.12 or Anaconda Python 2.7.12 (latest version)

Django 1.10.x

MySQL Server5.6.x

Connector

https://pypi.python.org/pypi/MySQL-python/1.2.5

Day Wise Break Up

Day	Module	Topics
Day 1	Module 1	Review of Object Oriented Programming using Python Introduction to Django Django Philosophy Django MTV Framework Django Installation Django Command Line Interface Django Administration Django Application Development Django Best Practices
	Module 2	Generating Simple Django Views Static and Dynamic View HttpResponse, Request, render_to_response
	Module 3	Python Regular Expression Concepts Configuring URLconf's URL Practice using Regular Expression

Module 4	 Django Templates/Advanced Template Usage About Templates Template Fundamentals Creating Template Objects Loading Template Files Filling in Template Content (Context Objects) Template Filters Template Tags More on For Loops Template Inheritance Easy Rendering of Templates
	 Filling in Template Content (Context Objects) Template Filters Template Tags More on For Loops Template Inheritance

Day 2	Module 5	 Database Models with Django Database abstraction (Object Relational Mapper) Working with an ORM on the command line Model validation Using Django's admin About Database Models Integration with MySQL Server 5.6 Configuring Django for Database Access Understanding Django Apps About Django Models Defining Django Models Understanding Model Fields & Options Table Naming Conventions Creating A Django Model Adding the App to Your Project Validating the App Generating & Reviewing the SQL Adding Data to the Model Primary Keys and the Model Simple Data Retrieval Using a Model Understanding QuerySets Applying Filters Specifying Field Lookups Lookup Types Slicing QuerySets Specifying Ordering in QuerySets Common QuerySet Methods Deleting Records Managing Related Records Retrieving Related Records Using Q Objects Creating Forms from Models Case Study
Day 3	Module 6	Model Forms
	Module 7	Forms, Contact Forms and Templates Integration
	Module 8	Email Forms, SMTP Configuration Case Study

Day 4	Module 9	Using the Django Admin Interface
	Module 10	Access Control with Sessions and Users
	Module 11	Generic Views/Class-based views
	Module 12	Restframework Case Study Serialisation
Day 5	Module 13	Advance Django Concepts Export and import of data (via JSON) How to handle static files in Django Different debugging techniques Logging File Create and Formats Decorators Pagination Authentication Middleware Write your own middleware Django Project Deployments
	Module 14	Summary and Conclusion