

Django Web - framework

Chapter 1: Introduction to web framework

- ✓ What is a server, HTTP Request and HTTP Response?
- ✓ What is a web framework and web application?
- ✓ Challenges in developing web application
- ✓ Django overview and installation

Chapter 2: Starting a django powered project

- ✓ Django project architecture
- ✓ Understanding manage.py
- ✓ Understanding settings.py
- ✓ Understanding init .py and wsgi.py
- ✓ Understanding urls.py and Python regular expression

Chapter 3: Starting your first web application

- ✓ Django project architecture
- ✓ Understanding admin.py
- ✓ Understanding models.py
- ✓ Understanding views.py
- ✓ Running Django development server

Chapter 4: Working with front-end framework

- ✓ Bootstrap tutorial

Chapter 5: Django templates

- ✓ Developing standard web template
- ✓ Template tags
- ✓ Filters in templates
- ✓ Template API

Chapter 6: Django admin

- ✓ Activating the Admin interface
- ✓ Creating super user for Admin site
- ✓ Using the Admin site
- ✓ How to use the Admin site
- ✓ The django.contrib package

Chapter 7: Django models

- ✓ The MVC Development Pattern
- ✓ Defining Models using Python classes
- ✓ Defining Model data fields
- ✓ Initializing model using makemigrations
- ✓ Running model initialization using migrate
- ✓ Registering models in settings.py

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- ✓ Registering models with Admin site

Chapter 8: Views and urls

- ✓ Understanding the view layer
- ✓ Requesting a web page via URL
- ✓ Rendering web page via view function
- ✓ Render HTTPResponse to templates
- ✓ Understanding context data and Python dictionary type

Chapter 9: Django forms

- ✓ Form basics
- ✓ GET and POST methods
- ✓ Form validation
- ✓ Rendering forms
- ✓ ModelForm

Chapter 10: Working with static files

- ✓ Creating static repository
- ✓ Loading static files
- ✓ Adding image file to template

Chapter 11: Django rest framework

- ✓ Setting up django rest_framework
- ✓ GET, POST, PUT and DELETE operations
- ✓ API permissions

Chapter 12: Deploying web application

- ✓ Setting up AWS account and EC2 instance
- ✓ Configuring linux server and installing dependencies
- ✓ Managing inbound and outbound request permissions
- ✓ Deploying django application on Amazon Web Services (AWS-EC2)

Project Work: *To be decided by the batch participants.*