QSpiders Global
PYTHON FULL STACK

INSTRUCTOR: RAJAT NAROJI
Subject: DJANGO-FRAMEWORK

Django Syllabus

Introduction

- Systems: Windows, Linux, etc.
- Types of Software: Standalone, Client-Server
- Request and Response Flow in 2-tier & 3-tier

Framework Concepts

- Framework and Web Framework
- MVC and MVT Architectures

Starting with Django

- Setting up Environment
- Creating and Running a Django Project

Apps Creation

- Creating and Registering Apps
- App Directory Structure

Views & URLs

- Introduction to Views and URLs
- Creating Views and Configuring URLs

Templates

- Introduction to Templates
- Rendering Templates with Context Data
- Template Inheritance

Dynamic URL Routing

- Creating Dynamic URLs
- Passing Arguments through URLs

Static Files

- Handling Static Files at App and Project Level

HTML Forms

- Creating Forms
- Handling GET and POST Requests
- CSRF Token

Models

- Introduction to Models
- Model Fields and Migrations

Admin Panel

- Creating Super User
- Registering Models and Performing CRUD Operations

CRUD Operations

- Implementing CRUD in Views
- Handling Forms and Validations

Django Forms

- Creating and Using Django Forms
- Form Fields and Validation
- Model Forms

User Authentication

- Authentication and Authorization
- User Login, Signup, and Logout
- User Permissions

APIs (Django REST Framework)

- Introduction to DRF
- Serializers and Serialization
- API Responses and CRUD Operations