

## Django Training Course Content

### Section 1: Django Web Framework

- What is a Framework
- Introduction to Django
- Django – Design Philosophies
- History of Django
- Why Django and Features
- Environment setup
- Web Server

### Section 2: MVC Pattern

- MVC Architecture vs MVT Architecture
- Django MVC – MVT Pattern

### Section 3: Getting Started with Django

- Creating the first Project
- Integrating the Project to sublime text
- The Project Structure
- Running the server
- Solving the issues and Migrations
- Database Setup
- Setting Up Your Project

### Section 4: Create an Application

- What Django Follows
- Structure of django framework
- Model Layer
- What are models
- Model fields
- Querysets

### Section 5: Django – Admin Interface

- Starting the Admin Interface
- Migrations

### **Section 6: Views Layer**

- Simple View
- Basic view(displaying hello world)
- Functional views, class based views

### **Section 7: Django – URL Mapping**

- Organizing Your URLs
- Role of urls in djang
- Working urls
- Forms
- Sending Parameters to Views
- Templates layer
- The Render Function

### **Section 8: Django Template Language (DTL)**

- Role of template layer in django
- Filters,Tags, Tag if, Tag for, Block and Extend Tags
- Comment Tag, Usage of templates
- Extending base template

### **Section 9: Django – Models**

- Creating a Model
- Manipulating Data (CRUD)
- Linking Models
- Django – Page Redirection

### **Section 10: Django – Sending E-mails**

- Sending a Simple E-mail
- Sending Multiple Mails with send\_mass\_mail
- Sending HTML E-mail
- Sending HTML E-mail with Attachments

### **Section 11: Django – Form Processing**

- Using Form in a View
- Usage of forms
- Crud operations using forms
- Crispy forms in django

### **Section 12: Django – File Uploading**

- Uploading an Image
- Django – Apache Setup

### **Section 13: Django – Cookies Handling**

- Django – Sessions
- Django – Comments

### **Section 14: Django Admin**

- Creating Super User
- Using admin in Django
- Adding models to admin
- Adding model objects using admin
- Displaying in cmd using querysets

### **Section 15: Static files**

- Loading css files into templates
- Loading js files into templates
- Uploading image using models
- User authentication

### **Section 16: Deployment**

- wsgi server
- Gunicorn, uwsgi concepts
- Godaddy domain
- Digital ocean cloud machine concepts
- Deploy your application