



## **DJANGO COURSE CONTENT**

### **Introduction**

- Introduction to Web
- What is WEB?
- Features of WEB?
- Introduction to HTML & HTML5
- Introduction to CSS & CSS3
- Introduction to JAVASCRIPT
- Introduction to Bootstrap
- Creating Basic Web Pages

### **Django Web Framework**

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

### **Getting Started with Django**

- Creating the first Project
- Integrating the Project to PYCHARM & Other IDEs
- The Project Structure
- Running the in the server
- Setting Up Your Project
- Create and configure Django apps
- Django App Structure
- Configuring App in Project

### **URLs and Views**

- What is URL?
- Define URL patterns
- What is View
- Configure URLs

---

#### **HYDERABAD IT TRAININGS**

Plot No: 40, Third Floor, Vittalrao Nagar, Madhapur, Hitech City Main Rd, Hyderabad-081

Phone: +91 81439 56849 Visit: [www.hyderabadittrainings.com](http://www.hyderabadittrainings.com)



- Developing different views

### **Django Templates**

- Define Django Template
- Django MVT Pattern
- Django Template Configuration
- render() function
- Django Template Language
- Template Tags or Template Variables

### **Working with Static Files**

- include Static Files inside Template
- Configuring static files
- Creating Project with static resources
- HTML, CSS, Images

### **DJANGO MODEL**

- Define Database?
- What is Model?
- Database Configuration
- How to Check Django Database Connection
- Defining Django Models
- Django Model Fields
- Field Options
- What is a Migration?
- migrate Command
- Creation of Super User
- Register Model Inside Admin Interface
- Difference between makemigrations and migrate
- Define QuerySet
- The Python Template Engine
- Define Jinja2
- Faker Module

### **Django Forms or Model Forms**

- What is Model Form?
- Advantages of Django Forms



- Creating Django Forms
- CSRF
- Creating a Login form
- Creating Registration Form

### **Outputting CSV with Django**

- What is CSV?
- CSV Using Models
- Creating a Live CSV Project

### **Advanced Template Features**

- Template Inheritance
- Template Filters

### **Session Management**

- Cookies
- Django Session Framework

### **User Authentication**

- Register
- Login
- Logout

### **CRUD Operations**

- C= Create
- R= Retrieve
- U= Update
- D= Delete

### **Django ORM (Object Relational Mapper)**

- Querysets in Django
- filters
- How to Implement OR queries?
- How to Implement AND queries?
- How to Implement NOT queries?
- How to Implement Union Operation for queries?
- How to work with aggregate functions?



**HYDERABAD**  
IT Trainings

- How to order queryset in sorting order?
- How to add/create records?
- How delete records?
- How to update records?

### **Django middleware**

- What is middleware?
- How to define our own middleware?
- `Process_exception()`

### **Source Editors**

### **Live Projects**

### **Resume Preparation**

### **Interview Questions**

### **Regular Assignments**

### **Material Softcopy**

---

**HYDERABAD IT TRAININGS**

Plot No: 40, Third Floor, Vittalrao Nagar, Madhapur, Hitech City Main Rd, Hyderabad-081  
Phone: +91 81439 56849 Visit: [www.hyderabadittrainings.com](http://www.hyderabadittrainings.com)