



Django Python Web Framework

- **Django Web Framework**
 - What is a Framework
 - Introduction to Django
 - Django – Design Philosophies
 - History of Django
 - Why django and Features
 - Environment setup
 - Web Server
- **MVC Pattern**
 - MVC Architecture vs MVT Architecture
 - Django MVC – MVT Pattern
- **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
- **Create an Application**
 - What Django Follows
 - Structure of django framework
 - Model Layer
 - What are models
 - Model fields
 - Querysets
- **Django – Admin Interface**
 - Starting the Admin Interface
 - Migrations
- **Views Layer**
 - Simple View
 - Basic view(displaying hello world)
 - Functional views, class based views
- **Django – URL Mapping**
 - Organizing Your URLs
 - Role of urls in djanggo
 - Working urls



- Forms
- Sending Parameters to Views
- Templates layer
- The Render Function
- **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
- **Django – Models**
 - Creating a Model
 - Manipulating Data (CRUD)
 - Linking Models
 - Django – Page Redirection
- **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
- **Django – Form Processing**
 - Using Form in a View
 - Usage of forms
 - Crud operations using forms
 - Crispy forms in django
- **Django – File Uploading**
 - Uploading an Image
 - Django – Apache Setup
- **Django – Cookies Handling**
 - Django – Sessions
 - Django – Comments
- **Django Admin**
 - Creating Super User
 - Using admin in Django
 - Adding models to admin
 - Adding model objects using admin
 - Displaying in cmd using querysets
- **Static files**
 - Loading css files into templates
 - Loading js files into templates



- Uploading image using models
- User authentication
- **Sample Projects and Websites**
 - News website (BLOGs Forums)

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