

# *SUMAN IT*

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## Why Learn Django?

Today Django is one of the best and easy framework for doing the job of development very easily. It also integrates very well with other frameworks like Angular and React and has its own admin panel which helps for non-technical customers. It is way faster and secure when compared with other frameworks or languages like PHP.

## Django Course Content

### Introduction to HTML5:

HTML is the standard markup language for creating Web pages.

- HTML stands for Hyper Text Markup Language
- HTML describes the structure of Web pages using markup
- HTML elements are the building blocks of HTML pages
- HTML elements are represented by tags
- HTML tags label pieces of content such as "heading", "paragraph", "table", and so on
- Browsers do not display the HTML tags, but use them to render the content of the page
  - HEADER TAG
  - PARAGRAPH TAG
  - IMAGE TAG
  - HEIGHT AND WIDTH TAG
  - BUTTONS

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- LIST
- HORIZONTAL TAG
- LINE BREAKS
- FORMATTING SPACES AND NEW LINES
- STYLES
- BACKGROUND COLOR
- TEXT COLOR
- TEXT FONT
- TEXT FONT - SIZE
- TEXT-ALIGNMENT
- BOLD
- STRONG
- ITALIC
- MARKED
- SMALL
- DEL
- INSERTED
- COMMENTS
- SUBSCRIPT AND SUPERScript

### **Introduction to CSS3:**

- **CSS** stands for **Cascading Style Sheets**.
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media.
- CSS saves a lot of work. It can control the layout of multiple web pages all at once.

- INLINE CSS
- INTERNAL CSS
- EXTERNAL CSS
- HTML WITH CSS FONT
- ID ATTRIBUTE
- CLASS ATTRIBUTE
- BORDERS
- PADDING
- MARGIN
- TABLES
- HORIZONTAL AND VERTICAL TABLES
- NESTED LIST
- FORMS AND RADIO BUTTONS
- DIV AND SPAN
- CSS COLORS - HEX CODES
- SHORT HEX CODES
- HTML LAYERS

## Getting Started:

- Introduction to Web Design architecture
- Problems solved by frameworks
- Frameworks Design Pattern
- Introduction to MVC architecture
- Introduction to MVT architecture
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## Introduction to DJANGO:

- Introduction to Django Framework
- Other frameworks of Python
- Introduction to Virtual Environment
- Installation of Virtual Environment
- Installing Django
- Creating a New Project.
- Project architecture Overview
- Creation of New App
- Application architecture Overview
- Configuration of database
- Server configuration in Django
- Working with Django Admin Panel

## Configuring URL's:

- Introduction to URL's conf
- Regular Expressions Revisited
- Expression samples
- Simple URL's conf example
- Integrating app Url's with project Url's
- Passing of Urls arguments.

## Django Views:

- Introduction to Django Views
- Introduction to Django Function Based Views
- Introduction to Django Class Based Views
- Understanding of Http Response Class
- Understanding Http Request Objects
- Working with various Http Request Methods
- Introduction to Render.
- Introduction to Context Dict object
- Getting data from url's into views
- Out putting data from Views to HTML

## **Django Templates:**

- Introduction to Templates
- Configuring Settings.py for Templates
- Loading Template Files
- Filling In Template Content
- Introduction to DTL
- Template Tags
- Jinja logic
- Block Tag
- End for
- Template Views

## **Django Models:**

- Introduction to Models
- Configuring Django for Database Access
- Introduction to database modules
- Django Models and Field Types
- Django Field attributes and arguments
- Make migrations and Migrate Commands
- Adding of Model to admin site
- Review of Admin site for Models.

## **Administrative settings and Uses:**

- Introduction to Django Admin
- Creation of Super users
- Authentication of users
- Using admin app in Django
- Login/Logout with Django Admin Database
- Login/Logout without Django admin Database.

## **Django REST framework:**

- Introduction to API
- Introduction to Serialization
- Introduction to REST Framework