



Easy Coding

Professional Python/Django Development

Course Duration: 64 hours

Total Class: 32

Tools: Python, Django , Vs Code , Git Base

Class #1	Environment Setup, Variable, Data Type & Type Casting
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1. Python environment setup
2. Basic syntax of python (indentation, comments)
3. Python variable
4. Data type in python

Assignment- #1:

Class #2	String of python
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1. Type casting in python
2. Introduction & declaration of string
3. Accessing values & updating string
4. String formatters & escape sequences
5. String functions and operations
6. Most important built-in methods of string

Assignment- #2:

Class #3	Operators & Condition
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1. Operators & Operant
2. Arithmetic, comparison & logical operators
3. Assignment, membership operators
4. If, if....else, & if...elif...else statement
5. Nested if & nested if..else statement

Assignment- #3:

Class #4	Loops in python
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1. For loop statement
2. While loop statement
3. Infinite & nested loop statement
4. Break, continue & pass statement

Assignment- #4:

Class #5	Built-in Data Structure in Python
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1. List in python
2. Indexing, slicing & negative indexing in python
3. Tuple & sets in python
4. Dictionary in python

Assignment- #5:

Class #6	Functions in python
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1. Define a function
2. Function arguments
3. Recursion in python
4. Built-in python
5. Anonymous function or lambda expression

Assignment- #6:

Class #7	File & Exception Handling
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1. Open, read & write a file
2. Errors vs exception
3. Try...except & try...except...else statement
4. Try...except...finally statement

Assignment- #7:

Class #8	Module & Package
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1. Module vs package
2. Create & uses a module
3. Built-in modules (datetime module)
4. Create & uses package
5. pip & PyPI

Assignment- #8:

Class #9	Class, Objects & Inheritance (OOP)
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1. Class & objects
2. Inheritance in python
3. Polymorphism in python
4. Constructors & Destructors in python

Assignment- #9:

Class #10	Git & GitHub
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1. Git vs github
2. Install & configure git
3. Create github account
4. Create repository & deploy on github
5. Fundamental bash commands

Assignment- #10:

Class #11	HTML-5
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6. Basic introduction & setup
7. HTML elements & color
8. HTML text formatting
9. HTML list & link
10. HTML image & Form
11. HTML media & head

Assignment- #11:

Class #12	CSS-3
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1. Basic introduction & setup
2. Font, text & background
3. Padding, margin, outline & border
4. Position, opacity, id, class & comment
5. List, link, image & text effect
6. Media query, transform, translate & scale

Assignment- #12:

Class #13	Bootstrap-5 (part- 01)
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1. Basic introduction & setup
2. Customize (color)
3. Layout
4. Content
5. Forms

Assignment- #13:

Class #14	Bootstrap-5 (part- 02)
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1. Components
2. Helpers
3. Utilities
4. Extends
5. Design a simple template

Assignment- #14:

Class #15	Installation & Configuration Django
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1. Create & active virtual environment
2. Install necessary package
3. Create project and app
4. Configuration app with project
5. Write some function and run the project

Assignment- #15:

Class #16	Static files, URL & Template
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1. Configuring static files
2. URL Configuration
3. Create template object
4. Load template files
5. Template filters

Assignment- #16:

Class #17	Database Model
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1. Creating a django model
2. Understanding models fields & options
3. Adding data to the model
4. Register database table into admin panel
5. Table naming conventions

Assignment- #17:

Class #18	Form, View & Template
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1. Create a model form
2. Create a View for handling form data
3. Template Tags & for loop

4. Template Inheritance
5. Getting form data

Assignment- #18:

Class #19	Complete CRUD operation with FBV Views
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1. Create Model & form
2. Understanding function base views
3. Insert & List show same template
4. Design Template
5. Write view for CRUD

Assignment- #19:

Class #20	Complete TODO App with Generic Views
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1. Create Model & form
2. Understanding Generic views
3. Import Necessary module
4. Design Template for Multi-user
5. Write view for CRUD

Assignment- #20:

Class #21	Relationships in Django Models
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1. What is ORM?
2. One-To-One Relationships
3. Many-To-One Relationships
4. Many-To-Many Relationships

Assignment- #21:

Class #22	E-commerce project setup
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1. Create environment
2. Create project folder
3. Create app folder
4. URL configuration
5. Template rendering main project
6. Create static folder

Assignment- #22:

Class #23	User Authentication System
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1. Creating users
2. Creating superusers
3. Changing passwords
4. Authenticating users

Assignment- #23:

Class #24	Customer Profile Creation
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1. Profile template design
2. Customer profile create
3. Modify customer dashboard
4. Image upload on dashboard
5. Changing customer password

Assignment- #24:

Class #25	Product show, Ck-editor, Sweetalert2
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1. Home page product show
2. Uses of sweetalert2
3. Load More button
4. Learn about crispy form
5. Useful uses of Ck-Editor

Assignment- #25:

Class #26	Product details, Product search
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1. Product Details
2. Related Product Show
3. Using Q Objects
4. Product Search
5. Multiple Search

Assignment- #26:

Class #27	Add to Cart & Remove, Quantity Increment & Decrement
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1. E-commerce Functionality
2. Add to Cart
3. Remove From Cart
4. Quantity Increment
5. Quantity Decrement

Assignment- #27

Class #28	Cart Summary, Checkout, SSL Commerce
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1. Cart Summary
2. Checkout Order
3. Order Confirm(Cash on Delivery and SSL Commerce)
4. Order History
5. Order History Details

Assignment- #28:

Class #29	Wishlist Add & Delete, Form Validators
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1. Product Add to Wishlist
2. Wishlist Product List
3. Delete From Wish List
4. Custom form validators
5. Form validation using clean method

Assignment- #29:

Class #30	Social Share, Whatsapp, Messenger Plugin
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1. Social share button
2. Add whatsapp chat plugin
3. Messenger chat plugin
4. Facebook comment share & like plugin

Assignment- #30:

Class #31	MySQL & Django Model
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1. Retrieve & Delete Record
2. Understanding QuerySets
3. Managing related records
4. Download Xampp & setup
5. Connect with MySQL database

Assignment- #31:

Class #32	Deploying Django Applications
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1. What is deployment?
2. Deploying Django App at product level
3. Install heroku CLI
4. Virtual Environment
5. Introduction to HEROKU

6. Deploy at HEROKU
7. pip freeze
8. Deployment process in C-panel

Assignment- #32:

Thank You