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Python Web Developement



Course Guide

Python is a powerful and flexible object-oriented scripting language that is designed for ease of use and enhanced productivity. Organizations benefit from rapid development cycles, faster time-to-market and lower cost of maintenance. This course provides hands-on experience using Python to develop applications, automate administrative tasks and integrate systems effectively.



Python is globally recognized

Python is trusted and accepted by leading employers, educational institutions and governments worldwide.

For a full list of organizations using these market-leading product, go to https://www.python.org/about/success/



Python Course Contents

Python course helps you to rapidly develop feature-rich applications, Structure code with classes, functions, modules and OO features, access standard and third-party modules and packages

Introduction to Python

- Python language characteristics
- The Python execution model

Leveraging Python Built-in Types

Manipulating string and numeric literals

- Declaring and initializing variables
- Performing arithmetic calculations
- Making decisions and performing iterations
- Formatting and slicing strings

Aggregating related data

- Accessing positional information in lists
- Representing ordered data with tuples
- Consistently handling data collections with iterators

Organizing and Structuring Code

Defining and calling functions

- Positional, keyword and default arguments
- Implementing variable-length argument lists
- Iterating with generator functions

Grouping code into modules

- Importing and reloading modules
- Referencing functions from modules by qualification
- Combining modules into packages

Implementing Classes and Objects

Declaring and modifying objects

- Encapsulating attributes and methods in classes
- Initializing objects with constructors
- Accessing derived data with properties
- Overloading operators

Inheritance and polymorphism

- Reusing functionality through inheritance
- Extending methods from base classes
- Overriding methods for dynamic behavior
- Tracing the scope in the namespace
- Enhancing functionality with class decorators

Manipulating the File System Managing files

- Reading and writing text and binary files
- Importing the OS module for directory management Increasing program robustness through handling exceptions
- Maintaining program control with error handlers
- Detecting errors and raising exceptions

Interfacing with Relational Databases

Establishing communication

- Creating a SQL database connection
- Instantiating cursors to access a database Executing SQL statements within a Python program
- Retrieving desired data sets
- Updating the database with action statements

Constructing a GUI with Tkinter/Any

Building the user interface

- Defining a window layout
- Placing widgets

Listening for interface events

- Providing menu items
- Responding to mouse clicks
- Binding event handlers

Developing Web Applications

Analyzing the request processing pipeline

- Positioning the role of Python
- Mapping requests to Python scripts

Developing MVC with Python

- Integrating the model with a database
- Processing requests with Python controllers Benefiting from the Django framework
- Improving productivity with code reduction
- Simplifying application development
- Accessing the database and producing HTML with Django templates

Final Project

Conclusion

Practical Approach

The real-time examples will be given throughout the lectures, starting from design, analysis, implementation and maintenance.

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