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## **Django**

### INTRODUCTION THE PYTHON ENVIRONMENT

- **√** Starting Python
- √ Using the interpreter
- √ Running a Python script
- √ Python scripts on Unix/Windows
- **✓ Editors and IDEs**

## **Getting Started**

- √ Using variables
- √ Built in functions
- **√** Strings
- **√ Numbers**
- √ Converting among types
- √ Writing to the screen
- √ Command line parameters

### **Flow Control**

- √ About flow control
- √ White space
- √ Conditional expressions
- √ Relational and Boolean operators
- √ While loops
- √ Alternate loop exits

## **Lists and Tuples**

- √ About sequences
- √ Lists and list methods

### **Tuples**

- √ Indexing and slicing
- √ Iterating through a sequence
- √ Sequence functions, keywords, and operators
- **✓ List comprehensions**
- √ Nested sequences



## **Our Courses**





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# **Working with Files**

- √ File overview
- √ The with statement
- √ Opening a text file
- √ Reading a text file
- √ Writing to a text file
- √ Raw (binary) data

### **Dictionaries and Sets**

- √ About dictionaries
- √ Creating dictionaries
- √ Iterating through a dictionary
- √ About sets
- √ Creating sets
- √ Working with sets

### **Functions**

- √ About sequences
- **√** Function parameters
- √ Global variables
- √ Global scope
- √ Returning values
- **√** Sorting data

## **Errors and Exception Handling**

- √ Syntax errors
- **√** Exceptions
- √ Using try/catch/else/finally
- √ Handling multiple exceptions
- **√** Ignoring exceptions

### **Using Modules**

- √ The import statement
- √ Module search path
- √ Zipped libraries
- √ Creating Modules
- √ Function and Module aliases



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### Classes

- √ About o-o programming
- √ Defining classes
- **√** Constructors
- √ Instance methods and data
- √ Class/static methods and data
- **√** Inheritance

## **Django Architecture**

- √ Sites and apps
- √ Shared configuration
- √ Minimal Django layout
- **√** Builtin flexibility

### **Configuring a Project**

- √ Executing manage.py
- √ Starting the project
- ✓ Database setup
- √ The development server

## **Adding an Application**

- √ Generate the application files
- **√** Defining models
- √ Related objects
- **√** SQL Migration
- √ App configuration
- √ Accessing models

### **Login for Nothing and Admin for free**

- √ Setting up the admin user
- √ Running the admin site
- √ Tweaking the admin interface
- √ Changing the admin index page

### **Basic Views**

- √ What is a view
- **√** HttpResponse
- **✓ URL route configuration**
- √ Shortcut: get object or 404()



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### **Basic Views**

- √ About templates
- √ Django template syntax
- **√** Static files
- **√** Loading templates
- √ The url tag
- √ Shortcut: template.render()

## **Querying the Models**

- **√** QuerySets
- **√** Field lookups
- √ Chaining filters
- **√** Slicing QuerySets
- √ Related fields
- √ Q objects

## **Working with Templates**

- √ Variable lookups
- **√** Comments
- √ Inheritance
- **√** Filters
- √ Escaping HTML
- √ Custom filters

### **Forms**

- √ Forms overview
- **√** GET and POST
- √ The Form class
- √ Processing the form
- **√** Widgets
- √ Validation
- √ Forms in templates
- √ Beyond the basics

