Web Applications in Python and Django (code: PYTHON-WEB-DJANGO)

Overview

A course in Python programming and using Python to create Django-based web applications. This training is designed for programmers who already know at least one object-oriented language, and have basic familiarity with creating web applications in a language other than Python/Django.

Duration

3 days

Agenda

1. Introduction to Python. Standard library.
   — Creating simple programs
   — Getting to know the syntax, basic instructions, standard library
   — Running programs, different ways to run a program (in both Windows and Linux environments)
   — Creating production versions, which can be run without installing Python
2. Understanding the object model in Python (including references to other languages (Java, C++, C#, PHP)
   — Understanding differences and similarity to other object-oriented languages (Java, C++, C#, PHP)
   — Understanding how it exactly works
   — Using object-oriented mechanisms (namespaces, objects and classes (old and new type), callable objects, operator overloading, multi-inheritance, modules and packages, exceptions, iterators, generators)
3. Creating web applications using Django platform
   — Creating a blog with features (formatting posts, adding tags, inserting pictures, adding comments)
   — Installing and configuring Django (using build-in webserver, using Apache and mod_python or WSGI)
   — Understanding a Django application - project, application, model, view, translating ULR to functions in program
   — Communication with database (interactive mode, program mode) and automatic administrative panel
   — Creating templates and using them in views
   — Creating forms - manually and using build-in mechanisms
   — Using generative views
   — Understanding good practices for programmers
   — Observing language mechanisms in practice

During our courses we use the latest Python version (branch 2) and the current version of Django. In case of on-demand courses, it's possible to use any version required by the Client, according to his needs.

Target audience and prerequisites

The course is intended for programmers who use any other object-oriented programming language and have basic knowledge about designing web applications.

Certificates

Course participants receive completion certificates signed by ALX.

Locations

— Warsaw (English) – Jasna 14/16A
— Online (English) – your home, office or wherever you want
— any other location (London, UK, EU) on request

Price

990 EUR

The price includes:

— course materials,
— snacks, coffee, tea and soft drinks,
— course completion certificate,
— one-time consultation with the instructor after course completion.