



Development 2B: Python Web Frameworks

Sep 22 - Nov 5

Instructors

Franco Sanchez - Web and IT Specialist

franco@digitalnest.org

Monica Gutierrez-Lopez - Web and IT Manager

monica.gl@digitalnest.org

Schedule

Tuesday and Thursday

4 - 6pm

Location

Virtual via Zoom

Zoom ID: 86036484428

Description

Learn how to create a web application using the Django framework for Python. We will be developing more intermediate-advanced programming skills, such as: data structures and databases. The specific project for this class will be to develop a To-Do List application. We will also be doing short reviews of python basics throughout the class, to help refresh your programming skills.

Learning objectives

After this event, everyone will learn how to:

- Install Django into their computer system
- Deploy a django application and server
- Understand the file hierarchies of Django applications
- Generate a database for the application
- Develop URL views and templates for the application user interface
- Implement Forms into the application

Topics

- Python Review (The fundamentals)
- Python Data Structures
- SQLite3 Database
- Django Web Framework
- HTML / CSS / JavaScript

Schedule

Week 1-4 | Python Review

Week 1-2 | Django App Deployment

Week 2-4 | Django UI Development

Week 4-5 | Django Databases and CRUD

Week 5-7 | Fine Tuning & BizzNEST Presentation

Stuff you should know

- Register for the class on [CourseStorm](#)
- Join the class on [Google Classroom](#)
- Join the class on [Repl.it Classroom](#)

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Weekly Sessions

Week	Dates	Topics		Tools
		Tuesday	Wednesday	
1	Sep 22, 24	Python Quiz (See where we are at) Introduction Installing and Testing Django Web Frameworks & Django Overview	Python Refresh: Data Types, Data Types Calculation Interactions, Input & Data Conversion Setting up Django App Server	MacOS Shell / Windows Console Atom / VSC Repl.it
2	Sep 29 Oct 1	Python Refresh: Booleans and Conditions Operators If-else-elif Views and URL Routing	Python Refresh: For-loops while loops Templates	Google Classroom
3	Oct 6, 8	Python Refresh: Functions Nested Functions Template UI Design (Intro with HTML, CSS, JavaScript)	Python Refresh: Importing and Referencing Modules Template UI Design (Integrating Templates)	
4	Oct 13, 15	Python Refresh: Classes - Methods & Attributes Template UI Design (Integrating Templates)	Python Refresh: Lists Dictionaries JSON Database Migration Models	
5	Oct 20, 22	Advanced Database Configurations	Forms Create, Update and Delete (CRUD)	
6	Oct 27, 29	Advanced URL Routing & Views	BizzNEST Presentation (Option A) Admin Site and Configuration	
7	Nov 3, 5	BizzNEST Presentation (Option B) Final Touches Feedback Sessions	BizzNEST Presentation (Option C) Showcasing Apps Pizza!	